If somebody would give me about two dozen very old elm trees and about fifty acres of wooded ground and lawn — not too near anywhere and not too far from anywhere — I think I could set up a College that would put all the big universities in the shade.

Stephen Leacock

1993/94
Important Notices

Changes in Program of Study
The programs of study that the Calendar lists and describes are available for the years to which the Calendar applies. They may not necessarily be available in later years. If the University or the Faculty (School, College) must change the content of programs of study or withdraw them, all reasonably possible advance notice and alternative instruction will be given. The University, however, will not be liable for any loss, damages, or other expenses that such changes might cause.

Changes in Courses
For each program of study offered by the University through the Faculty (School, College), the courses necessary to complete the minimum requirements of the program will be made available annually. We must, however, reserve the right otherwise to change the content of courses, instructors and instructional assignments, enrollment limitations, prerequisites and corequisites, grading policies, and timetables without prior notice.

Changes in Regulations and Policies
The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty (School, College) are displayed here. Applicable University policies are either fully displayed here or listed here.

In applying to the Faculty (School, College) the student assumes certain responsibilities to the University and the Faculty (School, College) and, if admitted and registered, shall be subject to the rules, regulations, and policies cited in the Calendar.
This is Scarborough College

Scarborough College, a constituent college of the University of Toronto, was established in 1964 to provide for the rapid growth in demand for undergraduate education for men in the late 1960s. Since then it has grown from a modest beginning of ten evening courses in a local high school to a thriving campus where 220 faculty teach more than 700 courses to 5200 students.

The first 191 full-time Scarborough students enrolled in 1965. Classes began on the University's St. George campus that fall and moved to the new Scarborough campus when the first building, made up of the Science and Humanities wings, opened in January, 1966. The building, designed by Toronto architect John Andrews, won immediate international attention for its striking architecture.

1973 saw the opening of both the R-wing which provided much-needed additional classroom and office space, as well as a gymnasium and other sports facilities and the Student Village, a complex of townhouse residences with room for 260 students. In 1985 the original Student Village was expanded and in 1990 the West Village which includes some wheelchair-accessible houses opened. A total of 535 students can now be accommodated in residence on the Scarborough Campus.

In 1982, the Vincent W. Bladen Library, named in memory of a former member of the Economics faculty of Scarborough College, was added to the R-wing. The library now holds more than 200,000 books, as well as thousands of maps and periodicals and a media centre with recordings and fine art slides. The Soil Erosion Research Laboratory opened in 1989 and the N'Sheemaehn child care centre in 1990.

Originally an integrated part of the University's Faculty of Arts and Science, in 1972 Scarborough College became a separate arts and science division of the University of Toronto and was given more independence in curriculum development. It was the first college in the University to adopt a credit system allowing both full and part-time students to complete their degrees at a rate of their own choosing. The College offers the only formal co-operative programmes in the University. The programme in Administration was offered for the first time in 1975. Since then co-operative programmes have been added in Arts Administration, in Computer Science and Physical Science and in International Development Studies. The Physical Sciences Specialist Programme and the Education of Teachers in French Specialist Programme have been redesignated and, in cooperation with the Faculty of Education will include an Early Teacher Project component. Successful completion of the Early Teacher Project, together with the required academic standing will guarantee admission, on application to the Faculty of Education, for at least thirty students a year. Other special programmes include Neuroscience, Terrain and Environmental Earth Sciences, the Humanities and Women's Studies.

From the beginning faculty research and the training of graduate students have flourished at the College with Scarborough faculty also making an important contribution to the School of Graduate Studies through courses taught both here and on the St. George campus. The well-equipped research laboratories, the high level of technical services, the relatively small size of the College and the diversity of the faculty foster an ideal environment for intellectual growth both in the undergraduate and graduate level.

Scarborough students have full and up-to-date resources available on campus, such as the excellent library, laboratory and computer facilities, residences and recreational facilities.

For more information about the child care centre or to arrange for a visit, please contact the Director, Ms. Kathleen McIlwray at 1-888-555-2468.

"N'sheemaehn:"
The Scarborough Campus Child Care Centre

The name of the University of Toronto's newest child care centre, pronounced N’sheemah, comes from a native folktale in which the song of the chickadee (n’sheemaehn) reminds us to take good care of our little ones.

The centre, licensed for 48 children of students, staff, faculty and neighbourhood families, operates Monday to Friday from 7:30 a.m. to 6:00 p.m. It is housed in a brand new building, officially opened October 10, 1990, and has already attracted praise both for its thoughtful design and fine programming and staff.

"N’sheemaehn" is a non-profit centre, managed by a parent/university board of directors. The board has developed a philosophy for the centre which emphasizes the provision of a warm, secure and loving environment for the children which will foster the development of each child’s self-esteem, independence and self-control, while encouraging cooperation, consideration and empathy for others.

The centre has arranged for a purchase-of-service agreement with the municipal government to assist low-income families with the fees. As there is a very long wait for those subsidies, interested families are encouraged to apply well in advance of the time their child will be needed. A child care bursary is available.

For more information about the child care centre or to arrange for a visit, please contact the Director, Ms. Kathleen McIlwray at 1-888-555-2468.
# Academic Calendar/Summer Session 1993

**March 15**  
Last day for new students to apply for admission to the University for the Summer Session for courses beginning in May (Y, A, F and H courses).

**April 5**  
Summer Session registration begins.

**May 15**  
Last day for new students to apply for admission to the University for the Summer Session for courses beginning in July (B and S courses).

**May 17**  
Classes for Y, A, F and H courses begin.

**May 21**  
Last day to add Y, A, F or H courses.

**May 24**  
Victoria Day. University closed.

**June 11**  
Last day to withdraw without academic penalty from A or F courses.

**June 25**  
Last day of classes in A and F courses on the St. George and Erindale Campuses. Last day for submission of term assignments in St. George and Erindale Campus courses.

**June 28-July 2**  
Reading Week for H and Y courses. Final examinations in A and F courses on the St. George and Erindale campuses.

**July 1**  
University closed for Canada Day holiday.

**July 2**  
Last day of classes in A and F courses at Scarborough College.

**July 9**  
Last day to add B or S courses.

**July 30**  
Last day to withdraw without academic penalty from B or S courses.

**August 2**  
Civic holiday. University closed.

**August 13**  
Last day of classes for Y, B, H and S courses on the St. George and Erindale campuses.

**August 16-August 20**  
Final examinations in Y, B, H and S courses on the St. George and Erindale campuses. Deferred examinations from April/May 1993.*

**August 20**  
Last day of classes in Scarborough College courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.

**August 31**  
Last day to request conferment of degree at the Fall Convocation.

* For St. George deferred examinations see the Faculty of Arts and Science Calendar.

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# Academic Calendar/Winter Session 1993/94

**1993**

**March 15**  
Winter Session registration begins.

**June 1**  
Last day for new students to apply for admission to the University for part-time studies beginning in September.

**September 6**  
Labour Day. University closed.

**September 13**  
Classes for Y, A, F and H courses begin.

**September 24**  
Last day to add Y, A, F or H courses.

**October 11**  
Thanksgiving Day. University closed.

**November 1**  
Bursary applications should be submitted by this date.

**November 5**  
Last day to withdraw without academic penalty from F or A courses.

**November 15**  
Christmas Examination Schedule published.

**December 10**  
Last day of classes in the first term. Last day for submission of term assignments in F and A courses.

**December 13-December 24**  
Term test and final examination period. Deferred examinations from August, 1993.*

**1994**

**January 3**  
Classes for B and S courses begin.

**January 14**  
Last day to add B or S courses.

**February 11**  
Last day to withdraw without academic penalty from Y or H courses.

**February 14-February 18**  
Reading Week - no classes held.

**February 15**  
Last day to request conferment of degree at the June Convocation.

**February 25**  
Last day to withdraw without academic penalty from B or S courses.

**March 15**  
Annual Examination Schedule published.

**April 1**  
Good Friday. University closed.

**April 8**  
Last day of classes; no tests or examinations (other than deferred examinations) may be held until the beginning of the examination period. Last day for submission of term assignments for Y, H, B or S courses.

**April 11-April 15**  
Deferred examinations from December 1993.*

**April 18-May 6**  
Final examination period.

**June 6**  
University Spring Convocations are likely to begin.

* For St. George deferred examinations see the Faculty of Arts and Science Calendar.
Faculty of Scarborough College

German
H. Wittmann, M.A., Ph.D. (Mass.)
H. Oehler, A.M., Ph.D. (Stanford), Associate Professor
U. Leser-Scharman, M.A., Ph.D. (Pennsylvania), Senior Tutor

History
J. S. Meld., M.A., Ph.D. (Toronto), D.D. (Presbyterian College, Montreal), Professor Emeritus
M. Eckstein, B.A. (Toronto), B.A., M.A., Ph.D. (Ohio), Professor
M. C. Mervin, M.A., Ph.D. (Toronto), Associate Professor
L. J. Arey, M.A. (McMaster), M.Phil., Ph.D. (Yale), Associate Professor
W. M. Dick, M.A. (Edinburgh), Ph.D. (Toronto), Associate Professor
E. W. Dowler, A.M. (Harvard), Ph.D. (London School of Economics), Associate Professor
J. S. Pearl, M.A., Ph.D. (Western Ontario), Associate Professor
I. R. Robertson, M.A. (McGill), Ph.D. (Toronto), Associate Professor
A. N. Shaye, M.A., Ph.D. (Toronto), Associate Professor
I. Faivovitch, M.A., Ph.D. (York, Canada), Assistant Professor

Humanities
R. I. Bisnik, M.A., Ph.D. (Chicago), Professor
W. C. Graham, M.A., Ph.D. (Toronto), Professor
P. P. Longo, M.A., Ph.D. (Cornell), Professor
C. V. Posner, M.A., Ph.D. (Toronto), Professor
A. B. Delina, B.A., M.A., M.I.T. (Brussels), M.A., Ph.D. (Michigan), Professor
J. Wilen, M.A. (Carnegie, Professor and Chair
H. Wittmann, M.A., Ph.D. (Mass), Professor
W. J. Bancroft, M.A. (Manitoba), Ph.D. (Harvard), Associate Professor
H. Oehler, A.M., Ph.D. (Stanford), Associate Professor
M. G. Schenbon, M.A., Ph.D. (Toronto), Associate Professor
P. G. Good, M.A., Ph.D. (Toronto), Associate Professor
C. Evans M.A. (Oxford), Ph.D. (Toronto), Senior Tutor

Italian
A. Franceschetti, D. in lett. (Padua), Ph.D. (Columbia), Professor
D. McAuliffe, A.B. (St. Peter's, New Jersey), Ph.D. (New York), Associate Professor
G. A. Campana, B.A., M.A., Ph.D. (Toronto), Senior Tutor

Linguistics
R. L. Buntman, M.A., Ph.D. (Chicago), Professor
D. M. James, M.A. (Cornell), Ph.D. (Michigan), Associate Professor
J. D. Woods, B.A. (Bowdoin), M.I.T., (Mass), Assistant Professor
R. Suyk, B.A. (Carleton), M.Sc., (Alberta), Ph.D. (Alberta), Assistant Professor

Music
J. Mayo, G.T.C.C. (Tin, Coll, London), M.A., Ph.D. (Toronto), Associate Professor
B. Bowes, B.A., M.A. (Carleton), M. Ph.D. (Toronto), Associate Professor

Philosophy
P. W. Good, M.A., Ph.D. (Toronto), Professor
W. C. Graham, M.A., Ph.D. (Toronto), Professor
W. E. Seager, M.A., Ph.D. (Toronto), Professor
J. H. Sobeil, M.A. (Yale), Ph.D. (Chicago), Professor
R. Thompson, M.A., Ph.D. (Toronto), Professor
D. B. Cook, M.A., Ph.D. (Toronto), Associate Professor
G. V. Nagel, B.A., M.A. (Simon Fraser), Ph.D. (Cambridge), Associate Professor
L. E. Mason, B.A., M.A. (McMaster), Ph.D. (Toronto), Professor
S. Suviv, B.A. (Toronto), (Pittsburgh), Assistant Professor
W. J. Freeman, B.A., B. A. (Rice), Lecturer

Psychology
S. R. Leto, M.A., Ph.D. (Cornell), Professor
R. Sinha, B.A., M.I.T. (Brussels), M.A., Ph.D. (Michigan), Professor
K. G. G. B. B. A. (McGill), M.A. (N.Y., Professor
R. Thompson, M.A., Ph.D. (Toronto), Professor (Philosophy)

Women's Studies
C. Barrand-Jenkins, L. L. (Paris), Ph.D. (Yale), Senior Tutor

Spanish
S. R. Leto, M.A., Ph.D. (Cornell), Professor
R. Sinha, B.A., M.I.T. (Brussels), M.A., Ph.D. (Michigan), Professor
K. G. G. B. B. A. (McGill), M.A. (N.Y., Professor
R. Thompson, M.A., Ph.D. (Toronto), Professor (Philosophy)
L. J. Arey, M.A. (McMaster), M.Phil., Ph.D. (Yale), Associate Professor (History)

J. Boddy, M.A. (Calgary), Ph.D. (UBC), Associate Professor (Antropology)
M. C. D. Kasner, M.A., Ph.D. (Toronto), Associate Professor (History)
M. D. Erwin, M.A., Ph.D. (Toronto), Associate Professor (Classics)
L. E. Mason, B.A., M.A. (McMaster), Ph.D. (Michigan), Associate Professor (Linguistics)
M. L. L. A. (McMaster), Ph.D. (Toronto), Associate Professor (Anthropology)
A. Sevra, B.A., M.A. (Windsor), Ph.D. (York, Canada), Associate Professor (Sociology)

L. Kew, M.A. (Cambridge), Assistant Professor (Fine Art History)
K. England, B.A. (P.G.C.E. (Laurette), M.A., Ph.D. (London), Associate Professor (Geography)
M. G. G. M. (Western Ontario), Ph.D. (Toronto), Assistant Professor (English)
P. C. Heung, B.A. (National Chiang University), M.A. (Chinese Cultural University), M.A. (California), Ph.D. (California), Assistant Professor (Sociology)
I. I. I. (McGill), B.A. (York, Canada), Assistant Professor (History)
L. R. Juge, B.A., M.A. (Manitoba), Ph.D. (Toronto), Assistant Professor (Philosophy)
J. M. R. B. (Toronto), Assistant Professor (English)
F. Spendakos, M.A., Ph.D. (Toronto), Assistant Professor
D. McCarthy, B.A. (Toronto, Senior Associate
C. A. Ankenm, B.A. (Yale), M.A., Ph.D. (Toronto), Assistant Professor
A. A. B. (New Mexico), B.B.A. (York, Canada), Senior Tutor (Fine Art Studio)
I. I. I. (McGill), B.A. (Manitoba), Senior Tutor (Fine Art Studio)

Division of Life Sciences

Biology
J. G. K. E. (Aberdeen), Ph.D. (Sheffield), D.Sc. (Aberdeen), F.R.S.C., Professor Emeritus
P. A. Ship, B.A., M.A., Ph.D. (Toronto), Professor Emeritus
A. E. J. Wellers, B. Sc. (Sydney), M.Sc. (Tas), Ph.D. (Kansas), Professor Emeritus
G. J. G. Williams, B.Sc., Ph.D., D.Sc. (Liverpool), F.R.S.C., Professor Emeritus
R. B. Z. (Calgary), Ph.D. (B.C.), Professor
J. R. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor
C. H. E. (Nagoya, M.S.), Professor
N. A. A. (McGill), Ph.D. (McGill), Professor
C. H. E. (Nagoya, M.S.), Professor
D. D. Williams, B.S., B.A. (Univ. Coll. N. Wales), Dipl.Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), D.Sc. (Wales), Professor
J. H. Y. (McGill), B.A. (Victoria), M.Sc. (McGill), Ph.D. (Western), Professor
E. E. E. (McGill), Ph.D. (McGill), Professor
R. F. H. (McGill), B.Sc. (Ottawa), Associate Professor
M. E. S. (St. Peter's, M.A.) (Forham), Ph.D. (Princeton), Associate Professor
G. F. Isacshen, B.Sc. (Waterford), Ph.D. (Univ. College London), Associate Professor
J. M. F. e. (Western), M.Sc. (Queens), Ph.D. (B.C.), Assistant Professor
C. A. A. (Brown), B.S. (Yale), M.S., Ph.D. (Florida State), Assistant Professor
C. D. H. (New York, Carolina), Ph.D. (Florida State), Assistant Professor
N. E. Williams, B.Sc. (Guelph), M.Sc. (Waterloo), Ph.D. (Toronto), Assistant Professor
C. Pickett, B.S., M.A. (Toronto), Senior Tutor

Psychology
J. R. O. G., B.A. (McGill), Ph.D. (Carrell), Professor
G. E. E. (Queen's), B.S. (CUNY), Ph.D. (NYU), Professor
G. C. (Columbia), B.A. (Mich.), M.A., Ph.D. (Wisc), Professor
K. S. (Wellness), Ph.D. (Minn), Professor
J. E. (O.U.A.), B.S. (O.U.A.), Professor
B. Form, B.A. (Toronto), M.A., Ph.D. (Michigan), Professor
J. M. K., B.S. (McGill), M.S. (Bel., Professor
A. E. E. (McGill), Ph.D. (UCLA), Professor
C. H. E. (McGill), Ph.D. (McGill), Professor
L. T. (Tulane), B.S., M.A. (Louisiana), Ph.D. (Toronto), Professor
M. C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor
G. O. I., Ph.D. (Drexel), Ph.D. (Irvine), Associate Professor
Programmes of Study and Course Descriptions

The following Programmes are offered at Scarborough College.
All Programmes in Computer Science, Economics, Management, Political Science, all Co-operative Programmes, and the Specialist Programme in Nestle, Science have strict enrollment limits. For details on application to the Programmes, see the appropriate discipline entry in this Calendar. In the event that the number of qualified applicants exceeds the teaching or other resources available, enrolment in other Programmes may have to be limited at a future date. In the event of under-enrolment, some of these Programmes may have to be withdrawn.

**Specialist Programmes - Type of Degree**
Anthr - B.A./B.Sc.
Arts - B.A.
Astronomy, Physics & Mathematics - B.Sc.
Biological Sciences - B.Sc.
Cell and Molecular Biology - B.Sc.
Chemistry - B.Sc.
Chemistry & Biochemistry - B.Sc.
Cognitive Science - B.Sc.
Computer Science - B.Sc.
Computer Science & Mathematics - B.Sc.
Computer Science & Physics - B.Sc.
Computer Science & Statistics - B.Sc.
Computer Science for Data Management - B.Sc.
Drama - B.A.
Eco-Agriculture - B.Sc.
Economics - B.A.
Economics & History - B.A.
Economics & Mathematics - B.A.
Economics & Political Science - B.A.
English - B.A.
Environmental Chemistry - B.Sc.
Environmental Earth Science - B.Sc.
Environmental Science - B.Sc.
**Fine Art History - B.A.
**Fine Art Studio - B.A.
French - B.A.
Education of Teachers in French - B.A.
Geography - B.A./B.Sc.
History - B.A.
Linguistics - B.A.
Management - B.A.
Management & Economics - B.Com.
Management & Economic Theory - B.Com.
Management & Language - B.A.
Mathematics - B.Sc.
Mathematics & Statistics - B.Sc.
Modern Languages - B.A.
General Interest Courses

The following is a list of courses which are of a general nature and are designed to appeal to all students within the College. Please consult the discipline entry in the Calendar for course descriptions.

ASTB005 Great Moments in Astronomy
BCO01Y Introduction to Biological Sciences
BIO114F Environmental Biology
BIO270F Theoretical Foundations of Biology I
BIO271S Theoretical Foundations of Biology II
CLA201Y Classical Civilisation
CLA212Y Greek and Roman Mythology
CSC106 Computer Basics: Fundamental Concepts and Terminology
EES205 Geologic Hazards
ENG111Y Reading Literature: The 20th Century
ENG207Y American Literature
ENG212Y Shakespeare
ENG314Y Varieties of Drama
ENG342Y Varieties of Fiction
ENG350F The Canadian Short Story
ENG353F The Short Story
ENG354F Women and Literary Study
FAR194F But Why is It Art?
FAR394F Twentieth Century Art
FRE252F Women and Literature in France
GER207F The Last Hundred Years
GER210F Modern Greek Music
HIS203F The Twentieth Century World
HUMA002 Prehistory II
HUMA202 Introduction to Literature
ITA171S Italian Cinema
MGT102Y Introduction to Business
MUS111F Listening to Music
MUS112F Music of the World's Peoples
MUS211S World for the Theatre
MUS214S Jazz
MUS311F Performing Arts of Asia
MUS322F The Classical Music and Culture of North India
PHL100S Social Issues
PHY101F Dynamics of Classical Systems
PHY111S Electromagnetism and Solid State Devices
SPA110S The Civilization of Spain II

Anthropology

Discipline Representative: J. Boddy
(87-7281)

Anthropology is the study of (or science of) mankind, dealing with the origin, development and nature of humans and their culture. As such it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines societies today and in the past, both complex civilizations and relatively small scale non-linear societies. From this vantage point Anthropology attempts to arrive at an understanding of the common factors underlying human existence and to isolate the causes that have led and continue to lead to cultural and social change (and to differences between people and cultures). Because of the vastness of its subject matter, Anthropology is traditionally divided into four sub-fields: Social-Cultural Anthropology, Prehistoric Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three areas. Students interested in pursuing appropriate course sequences in one of the sub-fields are invited to consult with one of the faculty in the appropriate sub-field and with the Supervisor of Studies.

Specialist Programme in Anthropology

Supervisor: R. Sawchuck, (87-7431)
The Specialist Programme in Anthropology is intended to provide interested and appropriately oriented student with background preparation of sufficient breadth and depth to pursue specialized training at the graduate level. It is also designed to offer interested students a course structure and arrangement that enhances flexibility to follow their intellectual interests into the diverse and yet holistic perspective on the human phenomena provided by an Anthropology. All students are required to consult with the Supervisor concerning the selection of a course sequence appropriate to their interests and objectives.

The Programme requires completion of twelve full-course equivalents, no less than ten of which must be Anthropology. Students must complete at least eight full-course equivalents in disciplines other than Anthropology within the four-year degree programme. The courses within the...
Programme are to be selected as follows:

1 ANTA01Y Introduction to Anthropology
2 Two full-course equivalents from among the following:
   ANTB15Y Biological Anthropology
   ANTB20Y Social and Cultural Anthropology
   ANTB11F Introduction to World Prehistory 1
   ANTB12S Introduction to World Prehistory 2
3 Six full-course equivalents from the remaining B.C. or D-level courses in Anthropology.
4 One full-course equivalent in a field methods or supervised reading and research course
   ANTD00F
   ANTD04S
   ANTD01S
   ANTD00S
   ANTD11F
   ANTD12S
5 At least 2 full-course equivalents in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor.

Major Programme in Anthropology
Supervisor: L. Sawchuk (287-7547)
The Major Programme in Anthropology provides a course structure for those students desiring to expand upon or supplement other areas of academic interest, by taking advantage of Anthropology's unique global, chronological, and biological perspective on humankind. The programme requires completion of six full-course equivalents in Anthropology, including:

1 ANTA01Y Introduction to Anthropology
2 One full-course equivalent from among the following:
   ANTB15Y Biological Anthropology
   ANTB20Y Social and Cultural Anthropology
   ANTB11F Introduction to World Prehistory 1
   ANTB12S Introduction to World Prehistory 2
3 Four additional full-course equivalents from B.C. or D-level courses in Anthropology, of which at least one must be at the C or D level.

Students are required to consult with the Supervisor regarding course selections, and requirements and are strongly urged to take at least seven full-course equivalents in disciplines other than Anthropology within the three-year degree programme.

Minor Programme in Anthropology
Supervisor: L. Sawchuk (287-7547)
The Minor Programme in Anthropology provides a course structure for students majoring or specializing in other disciplines who want some directed exposure to anthropological thought. The programme requires completion of four full-course equivalents including:

1 ANTA01Y Introduction to Anthropology
2 At least one full course from among the following:
   ANTB15Y Biological Anthropology
   ANTB20Y Social and Cultural Anthropology
   ANTB11F Introduction to World Prehistory 1
   ANTB12S Introduction to World Prehistory 2
3 Two additional full-course equivalents in Anthropology, at least one of which must be at the C or D level.

Students are required to consult with the Supervisor regarding course selections, identification of potential interdisciplinary streams (social-cultural, physical, archaeological), and course requirements.

ANTAYY Introduction to Anthropology
Telephone ID #: 00710163
An introduction to the fields of anthropology through which the student will obtain the anthropological view of the nature and diversity of humans. The first term deals with Physical Anthropology and Prehistoric Antiquity, concentrating on the biological basis and the evidence for the origins and growth of culture. The second term concerns the nature of language and the comparative aspects of Cultural Anthropology, through a study of social groups. The course will also consider the nature of global political and religious systems in both non-industrial and industrial societies. Lectures and tutorials.
Exclusion: ANTA100
Session: Winter Day, Summer Evening
J. Thompson, M. Lambik

ANTBYY The Ecological Perspective in Anthropology
Telephone ID #: 00720163
The interrelationship of human populations with their environment, particularly as reflected in differences in technology, socio-political organization, and ideology. Emphasis will be placed on the view which sees variability in human behaviour as the product of adaptation and evolutionary change.
Prerequisite: ANTA01Y
Session: Winter Day
H.B. Schneider

ANTB11F Introduction to World Prehistory 1: Human Behaviour in the Old Stone Age
Telephone ID #: 00721135
The development of art, technology, religion and lifeways of hunters and gatherers living from two million to ten thousand years ago. Our intellect, interests, emotions, and basic social life are all in part evolutionary products of the success of hunting adaptations over this span of time. Issues to be considered include the nature of prehistoric technological innovation and social change and the reconstruction of ancient ideologies and ecological systems.
Prerequisite: ANTA01Y
Session: Winter Day
H.B. Schneider

ANTB12S Introduction to World Prehistory 2: The Rise of Civilization
Telephone ID #: 00721253
Examination of the two major-cultural developments of the past ten thousand years out of which emerged modern human societies: the agricultural and urban transformations. The course emphasizes the ecological adaptive factors and the archaeological evidence bearing on the beginnings of permanent human settlement, the domestication of plants and animals, and the development of complex social and technological systems.
Prerequisite: ANTA01Y
Session: Winter Day
H.B. Schneider

ANTB15Y Biological Anthropology
Telephone ID #: 00721543
A survey of the human place in nature: origin (Paleo) and ongoing evolution (Spring). Basic to the course is an understanding of the Darwinian theory of evolution and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized by the Physical Anthropologists. Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primate biology, social organization and behaviour of non-human primates, taxonomy and classification, paleoanthropological principles and human origin.
Exclusion: ANTA1203
Prerequisite: ANTA01Y or permission of instructor
Session: Winter Day
J. Thompson, L. Sawchuk

ANTB16Y Cultures of Modern Canada
Telephone ID #: 00721163
This course has two objectives: on the one hand, it explores the regional and ethnic diversity of contemporary Canadian cultures, and on the other, it examines forces which operate, however successfully, to bind Canadians together and foster a coherent world-view. The first objective involves consideration of localized case studies, e.g. of agriculturally based religious communities, Newfoundland outports, indigenous groups (Native Canadians and Metis), and others. The second involves awareness to shared cultural meaning in Canadian literature, myth and symbolism, mass media, and political culture.
Prerequisite: ANTA01Y or permission of instructor
Session: Winter Day

ANTB20Y Social and Cultural Anthropology
Telephone ID #: 00722063
Basic approach to the understanding of social and cultural organization in societies of varying complexity but with emphasis on simpler societies. Comparative social institutions, especially kinship and marriage will be examined along with economic, political, legal and ritual elements. Some attention will also be given to belief systems and symbolic thought as well as sources of stability and change in society and anthropological perspectives on current social issues.
Exclusion: ANTA204
Prerequisite: ANTA01Y or permission of instructor
Session: Winter Day

ANTB21Y Canadian Native Peoples
Telephone ID #: 00722163
Native peoples of Canada have won legal sanction for their traditional ways of life. With the reassertion of these rights in federal and provincial law, it will become necessary to determine the extent of these traditions. This course examines the traditional cultures of Native peoples through the media of archaeology, ethnohistory and oral tradition. Questions to be considered involve: the nature and source of political authority, the status and rights of women and off-reserve individuals.
definition of educational systems, enforcement mechanisms and the rights of the individual and the band to personal and collective freedom.

Prerequisite: ANTA01 or permission of instructor

Session: Winter Day

M. Luna

ANTA055 Culture of the Middle East and the Islamic World

Telephone ID: 00725563

The "Islamic World" includes a diversity of cultures, environments, and even languages. Yet all are united by bonds of a common faith that is itself a social system. This course examines similarities and variations among contemporary and traditional Muslim societies from an anthropological perspective, focusing primarily on peoples of the Middle East and North Africa.

Prerequisite: ANTA01 or permission of instructor

Session: Winter Day

J. Boddy

ANTA095 and ANTA045 Directed Reading in Anthropology

Telephone ID: 00730333 and 00730453

A directed exploration of specific topics in Anthropology, based on extensive investigations of the literature, individual materials, as arranged. Arrangements for two-hour semesters of the student's research findings is required.

Prerequisite: ANTA01 and a 2.0-level full course equivalent in Anthropology or permission of instructor

Session: Winter Day, Winter Evening, Summer Evening

Members of Faculty

ANTA065 Anthropological Study of Religion

Telephone ID: 00730563

A cross-cultural study of systems of belief and ritual concerning spiritual beings and the cosmos; of social actions, rights and obligations arising out of human dependence on such beings; and of magic, curing, witchcraft and sorcery. The course is concerned with the anthropological study of supernatural beings in small-scale non-Western societies. Topics covered (tame permitting) will be the origin and function of religion, symbolism; myths, ritual, shamanism; magic, witchcraft, divination; death, ghosts; ancestor cults; and dynastic religion. One or two-hour session per week.

Exclusion: ANTA065

Prerequisite: ANTA041

Session: Winter Day

G. Gilliam

ANTA065 Complex Societies: Anthropological Perspectives of Development

Telephone ID: 007311033

A study of peasant and agrarian societies, in which special attention will be paid to problems of deindustrialization, urbanization, and personal adjustment as well as to adaptation to urban situations and social control. The study will draw upon Third World Economic and social adjustments to new situations.

Exclusion: ANTA017

Prerequisite: ANTA01

Session: Summer Evening

TBA

ANTA125 Research on the Social Behaviour of Non-Human Primates I

Telephone ID: 007441243

The purpose of this course is to study two types of monkeys under very different circumstances: in Kewalo, the monkeys are hybrid macaques, living near humans in wooded reserves; these are considered "urban" monkeys in Guangzhou. The Macaque monkeys which live in the mountains in a national forest, where enclosure is just beginning. Observations are from dawn to dusk with time for transcription and analysis. There are guest lectures from local ethologists and wildlife conservationists. Evaluation: an ethnogram, field notes, log books, seminar presentations, simulation exercises. This field trip begins in mid-February and lasts for 10 days (excluding Reading Week). An additional fee of approximately $2000, depending on location, (city/taxi shared) will be charged to cover travel and accommodation. Students will make arrangements for instructor's permission and make a deposit by 1 November. For additional information, contact Professor J. F. Burton (tel. 257-7435/Room H-424). Enrolment is limited to 10.

Prerequisite: ANTA22 and (ANTA25) or permission of instructor

Session: Winter Day

F. Burton

ANTA059 Human Origins

Telephone ID: 007351603

The study of human origins has undergone a revolution in recent years. The science has benefited from a series of unexpected fossil discoveries, and it has become willing to look at new approaches to answering major issues surrounding human evolution. While there is more than one way of knowing the past, there is also greater security that the questions being asked are answerable. This course will examine some of these, particularly the process of specialization, with specific reference to the emergence of Homo. While the fossils (ca. 200) will be examined, there will be emphasis on the interpretation of the process of hominization through the thoughts and writings of major workers in the field. Topics are set within their fossil and time contexts and include the emergence of bipedalism and opposability and their correlates, non-human primate social organization and demographic reconstruction, diet and foraging techniques, and "the origins" (for example, the use of fire; the development of language; the origin of consciousness). Two hours of lecture, two hours of lab.

Prerequisite: ANTA01 or permission of instructor

Session: Winter Evening

J. Thompson

ANTA035 Political Anthropology

Telephone ID: 007354235

A general survey of the role of political systems in a largely "development" framework.

Exclusion: ANTA035

Prerequisite: ANTA01 or permission of instructor

ANTA20 recommended

Session: Winter Day

TBA

ANTA385 Prehistory of North America

Telephone ID: 007331962

An introduction to the establishment and diversification of native traditions in North America from a late Paleolithic hunting base to the emergence of civilizations in Mesoamerica. The course will focus on processes of cultural change and on archaeological methods of reconstructing the past. Primary attention will be paid to the civilizations of the eastern and southwestern United States. At the end of the course, a field trip to Ohio will permit students to obtain first hand experience of the remains of the Hopewell moundbuilders, one of the most interesting early traditions in this region.

Prerequisite: ANTA01

Session: Winter Day

M. Luna

ANTA069 Anthropological Demography

Telephone ID: 00735603

An examination of the biological, demographic, ethological and socio-cultural determinants of human and non-human population structure and the interrelationships among these determinations. Lecture topics include population and ecological strategies for survival and adaptation, population structure of small-scale and urban societies, and palaeodemography and paleoanthropology. Prerequisite: ANTA01. ANTA15 recommended

Session: Winter Day

L. Svecuk

ANTA065 Fieldwork in Social and Cultural Anthropology

Telephone ID: 00734053

This course describes how social-cultural anthropologists collect data and construct theory in the course of fieldwork. Students will be introduced to the fieldwork experiences both through reading some of the classic descriptions of research in exotic societies and by designing and carrying out a small project or projects here in Toronto. We will cover such topics as the nature and uniqueness of the participant-observation method, note-taking and organization, and ethic and ethical approaches, selecting information, consultants, informal interviewing, and household surveys. We will also consider such problems as choosing a field site, entering and living in a foreign community, culture shock and cultural bias, and the logistical and medical needs of the researcher. Considerable attention will also be given to ethical issues such as confidentiality and respect for the culture in fieldwork. Limited enrolment: 20 with preference given to students in anthropological development studies.

Prerequisite: Any 1-level full course equivalent in Anthropology or IDS or permission of instructor

Session: Winter Day

TBA

ANTA065 Medical Anthropology: Illness and Healing in Cultural Perspective

Telephone ID: 00734613

This course examines illness, health, and healing from a comparative cross-cultural perspective in a sociocultural context. It includes the overlapping topical areas: (1) the description and analysis of cross-cultural ideas and practices; (2) the culture of North American illness and medicine, viewing biomedicine as an ethnomedical system
ANT2052 Ethnomedicine
Telephone ID: 00742533
This seminar course focuses on the intersection of body, mind, and self in
cross-cultural perspective. Particular attention will be paid to the analysis
of symbols, ritual, and the meaningfulness of body experience, in issues of gender
and power; and to the healing process. Limited enrolment: 20.
Exclusion: (ANT266)
Prerequisite: ANT211 or ANT215 or permission of instructor.
ANT225 and ANT221 are highly recommended.
Session: Winter Day
M. Lambek

ANT251F and D255 Advanced Research in
Anthropology
Directed critical examination of specific problems in Anthropology, based on
library and/or field research. Individual research projects are assigned. In addition to course
work to be done by the instructor, an oral presentation of the student’s research findings is required.
Prerequisite: ANT201 and one E-level full course equivalent in Anthropology and
permission of instructor.
Session: Winter Day, Winter Evening, Summer Evening
Members of Faculty

Courses Not Offered in 1993-94

ANT320F The Americas: An Anthropological
Perspective
Introduction to Anthropological Materials
Exclusion: ANT210
Prerequisite: ANT226 is recommended
Session: Winter Day/Semester Evening
L. Kurlin

ANT321F The Concept of Race in
Anthropology
Telephone ID: 00741323
This lecture course focuses on the development of the construct “race” and its
validity. The current state of this term derives from misunderstandings of its
meaning, history, and scientific development. Within Anthropology, the
term has been central to an ongoing debate about the origin, nature, and diversity of human.
Two hours of lecture per week.
Exclusion: (ANT333)
Prerequisite: ANT215 or one E-level full course equivalent in Anthropology

ANT324F/S Prerequisites: ANT210 or
ANT201
Anthropology: Sea
Prerequisite: ANT301;
ANT315
ANT365F/S Prerequisites: ANT226 or
ANT215 or permission of instructor.
ANT215 and ANT221 are highly recommended.
Session: Winter Day
M. Lambek

ART23

Arts

Specialist Programme in the Arts
Supervisor: Janis Hoogestraat, (287-7128)
The Specialist Programme in the Arts is designed for all those students with an
active interest in the Arts. This programme will give the student a broad foundation in
cultural studies and diverse areas of study while engaging students in practical aspects of
areas can be studied in the minor components of the Arts Administration.
We recognize that much artistic work cuts across the boundaries of disciplines and this Programme will allow the student to explore the inter
relationships among the arts. Such exploration will be a stimulating experience to any student in the humanities.
24 Astronomy

The Programme is also intended to provide career preparation for students who are interested in such fields as arts administration and public and high school teaching.

The course requirements for a Specialist Programme in the Arts are as follows:

1. The Major Component
   One of the following areas:
   - Drama
   - Fine Art History
   - Fine Art Studio
   - Music
   - In each case the courses taken are the same as those specified for the Major Programme in the chosen discipline. Consult the calendar entries under the individual disciplines.

2. The Minor Component
   Two of the following areas, other than the area chosen as the Major Component:
   - Arts Administration
   - AAD501Y Introduction to Arts Administration
   - and one full-course equivalent from:
   - MGMT407Y Introduction to Management
   - MGMT410Y Management
   - and one full-course equivalent from:
   - ECO402Y Introduction to Economics: A Mathematical Approach
   - ECO415YS Introduction to Economics
   - POL407S Introduction to Canadian Politics
   - Students should check these courses for prerequisites.

Creative Writing:
- ENCW511W Creative Writing
- ENCW560Y Independent Studies: Creative Writing
- and one full-course equivalent at the B-level in Directed Writing.

Drama:
- Fine Art History:
  - PAR110YS, PAR111YS, PAR122YS, PAR132YS, PAR134YS, plus one full-course equivalent at the B-level (Supervisor's approval required).
- Fine Art Studio:
  - PAR207Y and any two full-course equivalents in Fine Art Studio.

Music:
- MUS101Y and any two full-course equivalents in Music.

Astronomy

Discipline Representative: R. Carberg

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically the attempt to understand the environment in which humanity developed, from the solar system in which we find our planet and the stars, to the very origins of the cosmos. The quest for knowledge of the cosmos in which we live is the core of the discipline of astronomy, which has been a major force in science and in the field of human knowledge.

In addition, the course ASTB305 is intended for students who have taken no previous astronomy, and covers the history of modern Astronomy. It is intended to provide a historical perspective on modern Astronomy, and by example, an introduction to the evolution of a number of modern scientific areas.

Please refer to the Physical Sciences section of the Calendar for the following Programmes:

Specialist Programme in Astronomy, Mathematics and Physics

Major Programme in Astronomy and Physics

ASTA07Y Introduction to Astronomy

Telephone ID: 01110363

A description of the solar system, sun, stars, galaxies and other phenomena of the Cosmos in which we live. The mechanisms which make our sun and other stars shine are explained, and the nature and evolution of our solar system, star systems, galaxies and the Universe as a whole are discussed in a manner suitable for both the science and non-science student. Methods and techniques for exploring the Universe are described, including the recent use of radio telescopes and telescopes on spacecraft. Two lectures and one tutorial per week. This is supplemented by a planetarium demonstration and a class trip to the David Dunlap Observatory. Using the College's 12 inchQueste telescope, students also have an opportunity to observe and photograph heavenly bodies if they wish.

Exclusion: ASTA100, 120, 200

Session: Winter Day

R.G. Carberg

ASTB305 Great Moments in Astronomy

Telephone ID: 01120353

An examination of the people, the background and the events associated with some major advances in astronomy. Emphasis is given to the role of a few key individuals and to how their ideas have revolutionized our understanding of nature and the Universe. Implications of the reviewed evidence are also discussed. The course will focus on the first measurement of stellar distance; the prediction of the existence of Neptune; the discovery of the nature of stars; the proof of the existence of "faint universes"; the birth of the theory of stellar structure; the detection and use of cosmic fireballs; and the expansion of the Universe. The perspective gained is used to assess current astronomical research and its impact on society.

The course is intended primarily for students not in Physical Sciences who, in their second or higher years, wish to acquire an understanding of the origins and significance of one present world view. A term paper dealing in detail with an aspect of the course is required.

Exclusion: AST210

Prerequisite: Four full-course equivalents

Session: Winter Evening

ASTB505 Celestial and Classical Mechanics

Telephone ID: 01120503

This course considers classical mechanics with particular emphasis on its origins and applications in celestial mechanics, particularly the study of the motions of bodies in planetary systems. Topics will include central force laws, Kepler's Laws, conservation laws, Lagrange's equations, and an introduction to Hamiltonian mechanics.

Prerequisite: ASTA03Y, MATA242Y, PHYA101Y

Corequisite: MATA445F, MATA442S, PHYB215S

ASTC03H Research Topics in Astronomy

Telephone ID: 01120304

Application of individual effort to reading and research on a topic of current interest. Research on some topic of current interest in astrophysics and write a report ("monograph") on their work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular tutorial sessions between the student and instructor. It is expected that at least 80 hours of work will be done during the year following which the monograph will be submitted to the instructor.

For more detailed information see professors Dyer or Kronberg. The bibliography is dependent upon the topic selected.

Exclusion: ASTA245

Prerequisite: ASTA03 or 323; PHYB215S, permission of instructor

Session: Winter Day

ASTC05P Structure and Evolution of Astrophysical Bodies

Telephone ID: 01130033

The structure and evolution of astrophysical bodies, particularly stars of various types.
Biological Sciences

Associate Chair: D. D. Williams

From its early beginnings as a descriptive science, biology has developed, particularly in the last few decades, into a sophisticated experimental science employing other basic sciences such as chemistry, physics, and mathematics. Modern biology includes the study of structure and function of all living organisms, including man. Within biology various core areas may be distinguished: morphology and structure (anatomy), taxonomy, physiology, biochemistry, genetics, and evolution, and ecology. In addition to their fundamental significance, the results of these areas are central to understanding and solving many problems currently confronting mankind.

Five Programmes in Biology are offered. (1) The Specialist Programme: for students wishing to concentrate in the biological sciences. These Programmes cover core areas of Biology and require a number of courses in cognate disciplines. Note: It is possible for students to take the introductory mathematics and physics courses in one of the core areas of the Programme. (2) The Major Programme: for students interested in Biology but wishing to combine it with other areas of interest. (3) The Minor Programme in Biology: for students primarily interested in Physical Science, Social Science, Management and Economics or Humanities who also have an interest in Biological Sciences. Supervisors and other staff members should be consulted if you have questions about your Programme in Biology, or the year-to-year sequence of courses.

Major Programmes in Biological Sciences

Supervisor: G. F. Vermeulen (Office S-226)

This Programme must include BIOA045 plus any three full-course equivalents in Biology, at least one full-course equivalent to be at the C or D level.

Programme in Cell and Molecular Biology

Supervisor: J. Youssef (Office S-566)

This Programme must include the following 14 full-course equivalents of which at least 3 must be at the C or D levels (0.5 must be at the D level). Note that at least 3 must be at the C or D levels in any year after the first, subject to the fulfilment of the necessary prerequisites. Courses with an * can be used to fulfill this requirement in one group.

1. BIOA035, *BIOA045 (can be substituted for BIOA035 in this programme)
2. At least one full-course equivalent in Morphology and Diversity: BIOB075, BIOB085, BIOB095, BIOB105, BIOB115, BIOB125.
3. At least one full-course equivalent in Evolution: BIOB175, BIOB185, BIOB195, BIOB275, BIOB285, BIOB295.
5. At least one full-course equivalent in Genetics: BIOB315, BIOB325, BIOB335, BIOB345, BIOB355, BIOB365, BIOB375, BIOB385, BIOB395.

Courses from the above which are not used to fulfill the requirement of the full-course equivalents in category 2 may be used to fulfill the requirement of the full-course equivalents in category 3 below.

1. At least one full-course equivalent in Evolution: BIOB165, BIOB175, BIOB185, BIOB195, BIOB265, BIOB275, BIOB285, BIOB295.

Courses from the above which are not used to fulfill the requirement of the full-course equivalents in category 3 below.

1. At least one full-course equivalent in Genetics: BIOB315, BIOB325, BIOB335, BIOB345, BIOB355, BIOB365, BIOB375, BIOB385, BIOB395.
2. BIOB475, BIOB485, BIOB495.
3. Five full-course equivalents in Biology (unspecified). Note that BIOB475 can be used to fulfill this requirement.

Four full-course equivalents in Evolutionary Biology can be used to fulfill this requirement.

Five full-course equivalents in the biological sciences can be used to fulfill this requirement.

Five full-course equivalents in Ecological Biology can be used to fulfill this requirement.

It is suggested that Biology students take a course in Computer Science such as CSCA045 or CSCA065 or CSCA075.

Minor Programmes in Biological Sciences

Supervisor: G. F. Vermeulen (Office S-226)

This Programme must include the following 14 full-course equivalents of which at least 3 must be at the C or D levels (0.5 must be at the D level). Note that at least 3 must be at the C or D levels in any year after the first, subject to the fulfilment of the necessary prerequisites. Courses with an * can be used to fulfill this requirement in one group.

1. BIOA035, BIOA045 (can be substituted for BIOA035 in this programme)
2. At least one full-course equivalent in Morphology and Diversity: BIOB075, BIOB085, BIOB095, BIOB105, BIOB115, BIOB125.
3. At least one full-course equivalent in Evolution: BIOB165, BIOB175, BIOB185, BIOB195, BIOB265, BIOB275, BIOB285, BIOB295.
5. At least one full-course equivalent in Genetics: BIOB315, BIOB325, BIOB335, BIOB345, BIOB355, BIOB365, BIOB375, BIOB385, BIOB395.
6. At least one full-course equivalent in Evolutionary Biology: BIOB475, BIOB485, BIOB495.
7. At least one full-course equivalent in Ecological Biology: BIOB575, BIOB585, BIOB595.
8. At least one full-course equivalent in Biological Chemistry: BIOB675, BIOB685, BIOB695.
9. It is recommended that Biology students take a course in Computer Science such as CSCA045 or CSCA065 or CSCA075.

Courses from the above which are not used to fulfill the requirement of the five full-course equivalents in category 2 may be used to fulfill the requirement of the five full-course equivalents in category 3 below.

Three full-course equivalents from the following:

1. BIOB075, BIOB085, BIOB095, BIOB105, BIOB115, BIOB125, BIOB165, BIOB175, BIOB185, BIOB195, BIOB265, BIOB275, BIOB285, BIOB295.

Courses from the above which are not used to fulfill the requirement of the five full-course equivalents in category 2 may be used to fulfill the requirement of the three full-course equivalents in category 3 below.
course equivalents required for this category: BIO331Y, BIO333Y, DM333T4, any MLP400 series course, any IG3400 series course, or any MGB course. Students wishing to enrol in courses offered on the St. George campus should note that entry into many of these courses will be by ballot.

4 Four full-course equivalents in cognate disciplines: CMB302Y, CMB304Y, PST100Y or PHY110Y and PHY111Y

5 One full-course equivalent from the Biology degree offerings at Scarborough Campus not listed above. BIO306S and BIO463S are recommended.

6 It is strongly recommended that students take a statistics course.

Specialist Programme in Ecology and Evolution
Supervisor: J. Eadie (Office S-558)
This Programme must include the following 14 full-course equivalents of which at least 3 must be at the C or D levels (0.5 must be at the D level). At least one full-course equivalent must be in plant science (see Major Programme for list of plant science courses). Note that C or D level science courses can be taken in any year after the first, subject to the fulfillment of the necessary prerequisites.

1 BIO303Y (EES404F) cannot be used as BIO305Y in this programme.

2 5.5 full-course equivalents in Ecology and Evolution:
   a) 2.0 full-course equivalents are mandatory: BIO103Y, BIO205S and STA122F/S.
   b) 3.5 full-course equivalents from the following: BIO104F, BIO105F, BIO205S, BIO207F, BIO215S, BIO217F, BIO225S, BIO305S, BIO307F, BIO325F, BIO358S, BIO368F, BIO375F, BIO385S, BIO395S, BIO403Y, BIO405Y, and STA122F/S.


4 One full-course equivalent in Physiology and Biochemistry: BIO102Y, BIO103Y, BIO105Y, BIO123Y, BIO347Y, BIO348S.


6 Note that in the above items 3, 4, 5, and 5 courses with an * can be used to fulfill the requirements of one category only.

7 One full-course equivalent from categories 3, 4, 5, and 5 on or from BIO204Y or BIO207Y.

8 Three full-course equivalents in cognate disciplines: CMB302Y, PST100Y or PHY110Y and PHY111Y.

9 For these interested in pursuing Theoretical Ecology, an additional MAT course should be considered.

A computer science course: CSC236F/S or CSC236F/S is recommended.

BIO305Y Introductory Biology
Phone ID: 0131063
This course is designed for students who intend to pursue further courses in Biology or other Natural Sciences. It offers a thorough consideration of basic biological concepts as they pertain to both plants and animals. Lectures will emphasize the ecologies of living systems, the transmission and functions of genes, integrative functions in plants and animals and the origin and evolution of life. Specific topics include: the chemical components of cells, cell structure and function, inheritance, the structure and functions of genes, early developmental processes, mechanisms of development, cellular metabolism, photosynthesis, molecular basis of muscle contraction, nerve physiology, plant hormones, evolution, basic ecology.

Two one-hour lectures and one three-hour laboratory per week. Laboratory and discussion periods will supplement the lecture material.

Exclusion: BIO100, BIO150
Although this course has prerequisites, a background in Biology and Chemistry is recommended.
Sessions: Winter Day
The Faculty

BIO302Y Basic Microbiology
Phone ID: 0132023
The general properties of bacteria, fungi and viruses, their structure, function and relationship to man, developing selected organisms to demonstrate their significance in health, research, biotechnology and the environment.

To gain awareness of the world of microorganisms, their physiology, genetics, structure and importance.

Laboratories include practical training in basic microbiological techniques.

One two-hour lecture and three hours of laboratory each week.
Exclusion: MLP207Y
Prerequisite: BIO103S
Session: Winter Day
J.C. Silver

BIO306Y Genetics
Phone ID: 0132053
A lecture and laboratory course in basic genetics and cyogenetics, with examples chosen from work on bacteria, fungi, Drosophila and vertebrates, including man.

Topics include: Mendel’s principles, linkage, mapping, structure of genes, genetic control of protein synthesis, recombinant DNA technology and its uses, regulation of gene activity, chromosome structure, mutation, Lectures, laboratory, problem sessions, discussion.
Exclusion: BIO200Y
Prerequisite: BIO103S
Session: Winter Day
M.F. Filer

BIO308Y Plant Physiology
Phone ID: 0130403
A basic lecture and laboratory course on the general physiology of plants.

The green plant as a functional organism: water and salt uptake and translocation, water loss; mineral nutrition, carbohydrates, energy, cell and tissue metabolism. Photosynthesis. Photobiology and regulation. Growth and development of plants. The objective of this course is to introduce the student to the science of plant physiology and to provide a training in laboratory techniques and the presentation of scientific data in this field. Lectures and laboratory work.
Exclusions: BOT323Y, BOT325Y
Prerequisite: BIO103S
Session: Winter Day
G.F. Iraniastan

BIO312Y Fundamentals of Ecology
Phone ID: 0132125
The scientific study of the interactions that determine the distribution and abundance of organisms. A course intended to promote the development of an ecological conscience.

An awareness of ecology in evolution; factors limiting the distribution of organisms such as adaptation, behavior, and dispersal; attributes of populations: population fluctuations, life table analysis, estimation of the innate capacity for increase, and population growth; species interactions: competition and predation; theories of population regulation; attributes of communities: concept of the community, species diversity, community patterns and classification succession and climax; concept of the ecosystem; biomes of the world, community energetics; community nutrition; other topics of general ecological interest.
Exclusions: ZOO232Y, BOT232H
Prerequisite: BIO103S or EES104F
Session: Winter Day
R. Boomstra

BIO345F Environmental Biology
Phone ID: 0132143
A course designed to explore the biological consequences of major selected problems facing Canada and the World which are a direct consequence of human activities. Each of the problems addressed will deal with the causes, the effects, and the potential solutions. A short introduction section in the course will discuss a number of ecological principles that apply to communities in order to set the stage for the exploration of the problems. The following will be among the topics discussed: sustainable development, the pesticide problem, the acid rain problem, the potential impact of increasing carbon dioxide levels on world climate, successful management of fish and wildlife and the harmful effects of the topics and the harmful effects of various chemicals on the environment.

Two one-hour lectures per week, plus tutorials every week.
Exclusion: BIO100Y or BIO1012 or permission of instructor
Session: Winter Day
R. Boomstra

BIO177Y Animal Physiology
Phone ID: 0131768
The functions of cells and of the organ system which have evolved to control the environment of the individual cell within the organism. Topics include: (i) body fluids and circulation, (ii) Ionic and osmotic balance, (iii) Excursion, (iv) gas exchange, (v) Nerve and muscle physiology. First
BIOC255Y Cell Biology
Telephone ID: 01333563
This course will focus on both structural and functional aspects of cells. Topics to be covered include: the structure and function of cellular organelles, the cytoskeleton, organelle biogenesis, the cell cycle, membrane transport and cell-cell interactions. These topics will be discussed with regard to insights obtained from various approaches including microscopy and molecular biology.
Two hours of lectures per week.
Exclusion: BIOC255Y
Prerequisite: One full-course equivalent from the following: BIOB10Y, BIOH105Y, BIOB120Y, BIOB125Y, BIOH125Y, BIOC105Y
BIOC255Y may be taken concurrently.
Session: Winter 2006
R. E. De Clerck, D. Riggs, H. Youn

BIOC256H Laboratory in Biochemistry
Telephone ID: 01333853
An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research, including: spectroscopy; chromatography; radioisotopes; electrophoresis; protein fractionation; etc.
The teaching method will consist of three hours of laboratory work per week for the 12-week term.
Exclusion: BIOC235C, BIOC230Y, BIOC232Y
Prerequisite: BIOC203, CHIM244Y (CIMC105)
Corequisite: BIOC235
Session: Winter Day
C. Fox

BIOC257F Plant Structure and Development: Cells and Tissues
Telephone ID: 01333733
The structure and development of cells and tissues making up the vascular plant body are examined at the light and electron microscopy levels. Embryos and seedlings are used to demonstrate the dynamic interactions of tissues systems throughout the plant body. A review of cell constituents and cell walls precedes a more detailed consideration of tissue types including parenchyma, collenchyma, sclerenchyma, xylem, phloem and a variety of secretory structures. Some attention is given to the relationship between structure and function as well as to the evolution of more complex cell types including vegetal tissues and sieve tubes.
Microscope work in the laboratory emphasizes the recognition of cells, cell products and tissue under the microscope.
Exclusion: BIOC203
Prerequisite: BIOC203
Session: Winter Day
R. E. De Clerck

BIOC258F Plant Structure and Development: Organs
Telephone ID: 01333853
A course dealing with the morphological, histological and developmental analysis of the major vegetative plant parts (poles, stems, leaves and derived structures) in higher vascular plants. Questions to be addressed include: how do plant parts arise, and how do their patterns of initiation and growth affect overall plant form? what is the range of morphological variation for a given type of plant part (e.g. storage root, propog, grapping root, adventitious root).
them root, etc.; what special histological and developmental attributes are associated with these morphological variations; how can one relate form and internal structure to function and adaptations to particular environments? The laboratories include examples of subjects covered in the lectures and text. Each student receives adequate training to complete a plant or microtechnique project by the end of the course. Offered in alternate years.

Prerequisite: BIOA103, BIOC117 or permission of instructor.

R. E. Forzanger

BIOC100 Plant Population Ecology
Phone ID: 01334653
The analysis of vegetation in terms of population ecology, including the following topics: demography and life tables; life cycle; types; modes of reproduction; population regulation processes; competition and niche theory.

Two one-hour lectures and one three-hour laboratory per week. Offered in alternate years.
Exclusions: BIC135H
Prerequisite: BIOB122
Session: Winter Day
T. B. A.

BIOC114F Molecular Physiology of the Bacterial Cell
Phone ID: 01334833
A lecture and laboratory course emphasizing the molecular mechanisms of bacterial cell regulation and of cellular processes such as active transport, chemotaxis, secretion and antibiotic resistance. The biological basis of using bacteria, chemical and molecular systems in recombinant DNA technology is discussed. Laboratory exercises are research-oriented experiments involving the growth and regulation of bacterial cell functions in response to antibiotics, incorporation of radiotracers into macromolecules and the irradiation and characterization of bacterial plasmids. Gel electrophoresis, liquid scintillation counting and other research techniques are used. Limited enrollment: 24.
Prerequisite: BIOB102
Session: Winter Day
J. C. Silver

BIOC205 Animal Behaviour
Phone ID: 01335253
An introduction to the study of animal behaviour. The course will emphasize the evolutionary and ecological bases of animal behaviour. Students will participate in several practical exercises to gain experience in the methods testing quantiative hypotheses about the behaviour of animals in the wild. Lecture topics include: the history of ethology; mechanisms of behavior (genetic, neural, physiological, and developmental); animal communication; orientation and navigation; habitat selection and territoriality; foraging behavior; parental care and reproductive success; predator behavior; local seeking; and social behavior. Each student will also submit an individual research project. Offered in alternate years.

Exclusions: BIC135H
Prerequisite: BIOB122 Session: Winter Day T. B. A.

BIOC209 Evolutionary Biology
Phone ID: 01336053
An examination of the fundamental principles of evolution. Topics include: the history of evolutionary theory; mechanisms of evolutionary change; natural selection; genetic drift, mutation and recombination; the maintenance of genetic variation; speciation and adaptive evolution; rates of evolution; phylogenetics and systematics; molecular evolution; the ecological basis of evolutionary change and evolution. The course will not consider population genetics in detail and will focus on conceptual, rather than mathematical, issues.

Two one-hour lectures per week and one two-hour tutorial every second week.
Exclusions: BIC135H
Prerequisite: BIOB102 or permission of instructor Session: Winter Day
J. M. Eales

BIOC217F Theoretical Foundations of Biology
Phone ID: 01337033
An examination of the conceptual and logical aspects of explanation, theory, and model construction in biology.

Two one-hour lectures will be covered: the structure of evolutionary theory; the nature of selection, fitness and adaptation; reductionism in genetics; reductionism in evolution and the role and nature of functional explanation in biology.
Exclusions: BIC132H, WH1170
Prerequisite: BIOB102 or permission of instructor Session: Winter Day
P. Thompson

BIOC217F Theoretical Foundations of Biology
Phone ID: 01337153
An examination of current theoretical controversies in evolutionary biology. Topics for 1990-91 are: complexity and organization; artificial life; culture and the evolutionary process. (Note: Although not required, a knowledge of calculus and linear algebra will enrich your understanding of core material for the course.)
Exclusions: BIC132H
Prerequisite: BIOB102 (BIC102) Session: Winter Day
P. Thompson

BIOC219F Advanced Field Courses in Ecology
Phone ID: 01339933
An inter-university selection from a variety of field courses offered by the University of Ontario Universita Programm in Field Biology, a co-operative arrangement among nine universities in Southern Ontario. Courses of one or two weeks duration at field sites from late April through mid-September are announced each January, and must require a major paper or project report to be submitted within six weeks of course completion. A fee for room and board is charged over and above tuition. Lists of courses available are posted early in January. Sign-up is on a first-come, first-served basis. Students register in the fall after the course has been completed and may take one two-week course or two one-week field courses to complete this credit. See the Scarborough co-operative, Professor J. M. Eales, for further details.
Prerequisites: BIOA00, BIOB102, or permission of instructor Session: Winter Day
J. M. Eales

BIOC217F Supervised Study in Biology
An independent study course designed to permit intensive examination of the literature of a selected topic or laboratory or field project in biology. Supervision of the work is arranged by mutual agreement between student and instructor. Will require a seminar presented by the student during a Biology Research Day in the spring.
Exclusions: BIC107H, ZOO408Y
Prerequisite: Satisfactory completion of fifteen full-course equivalents, including at least four must be Biological Science 200- or 300-level courses.
Session: Winter Members of Faculty

BIOC22F Directed Research in Biology
Identical to BIOC22F but not to be taken with the same faculty member.
Prerequisite: Completion of fifteen full-course equivalents, of which at least four must be Biological Science 200- or 300-level courses. Will require a seminar presented by the student during a Biology Research Day in the spring.
Exclusions: BIC107H, ZOO408Y Session: Winter Members of Faculty

BIOC29F Physiology and Biochemistry of Plant Growth and Development
Phone ID: 01341243
A lecture and seminar course in plant growth and development. Emphasis will be placed on the mechanisms controlling growth and development. The plant growth hormones and their mechanisms of action, germination, dormancy, senescence, tropic responses, growth mechanisms, correlation effects, flowering, fruiting. Biological clock mechanisms. It is hoped to provide an in-depth understanding and to review critically the processes of growth and development in plants. It should acquaint the student with current literature on the subject, via library research, providing a sound basis for possible future research in this field. Lectures and seminars. Limited enrollment.
Exclusions: 12
Prerequisites: BIOB100, Curr Req: BIOB35 recommended Session: Winter Day
G. F. Frumkin

BIOC29F River Ecology
Phone ID: 01341333
The course will begin with an introduction to stream hydrology and sediments, and the adaptations of plants and animals to life in a dynamic habitat. Later topics will cover micro- and macro-distribution of stream fauna and the problems of quantitatively sampling them: basic interactions; community structure and stability; colonization patterns following disturbance; energy transformations; estimates of production; and main's effects on river processes.

Two one-hour lectures and three hours of laboratory work per week. Field trip. Offered in alternate years. Limited enrollment: 15.
Exclusions: ZOO466Y
Prerequisites: BIOA00 or BIOC29 or permission of instructor Session: Winter Day
D. D. Williams
Chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, descriptive topics such as introductory organic chemistry are used to round out the course. Two lectures per week. One four-hour laboratory and one one-hour laboratory in alternating weeks.

Exclusions: C14015, 136, 150
Prerequisites: OAC Chemistry (or Grade 12 Chemistry and permission of instructor); OAC Calculus.
Corequisite: NONE
But MAT202Y is strongly recommended and is required for some higher level chemistry courses.

Session: Winter Day

**CHMB11Y Analytical Chemistry**

**Telephone ID:** 02821163

An introduction to the principles and methods of chemical analysis and to the techniques employed in a chemistry laboratory.

The course consists of two main divisions: classical and instrumental analysis. The classical techniques are illustrated with gravimetric and volumetric analyses. The instrumental section will introduce the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic methods and other separation techniques.

Two hours of lectures per week for first term, one hour per week for second term and four hours of laboratory for second term.

Exclusions: CHMB12Y, C14219, 268, 269
Prerequisites: CHMA07Y
Other recommended courses: CHMB12Y

Session: Winter Day

**CHMB22Y Introductory Physical Chemistry**

**Telephone ID:** 02822205

Introduction to physical chemistry, including thermodynamics, elementary statistical mechanics and chemical kinetics. The course starts with the application of the basic laws of thermodynamics to a variety of chemical problems. Topics covered include spontaneous processes, chemical and phase equilibria, properties of solutions and electrochemistry. Further course topics are: the kinetic theory of gases, statistical mechanics of simple model systems, elementary chemical reactions and theories of chemical bonding.

Exclusions: C14205Y, C14222
Prerequisites: CHMA07Y, MAT202Y, PHY107Y
Corequisites: MAT141Y and MAT242S

Session: Winter Day

**CHMB22Y Inorganic Chemistry I**

**Telephone ID:** 02822563

The ideas of structure and bonding of atoms, molecules and ions introduced in CHMA07Y are further developed and applied to the rich variety of structures of inorganic solids. The same ideas provide a framework to account for the reactions of these substances, namely acid-base and redox reactions. These concepts are used to rationalize the descriptive chemistry of the elements, particularly those of the s- and p-blocks. The structure and properties of the d-metal complexes are introduced as a special case of acid-base interactions.

Two one-hour lectures per week.

Exclusions: C14201Y, C14239, 339
Prerequisites: CHMA07Y

Session: Winter Day

**CHMB44Y Organic Chemistry I**

**Telephone ID:** 02824453

The course of the elementary functional groups encountered in aliphatic and aromatic compounds, interpreted in terms of reactivity, stereochemistry and reaction mechanisms.

An introduction to organic spectroscopy will also be given.

The fundamentals of organic chemistry, including aliphatic and aromatic chemistry, and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrates. Two lectures per week and a four-hour laboratory every second week.

Exclusions: C14205Y, C14240, 249, 268, 269
Prerequisites: CHMA07Y

Session: Winter Day

**CHMB45F Environmental Chemistry**

The course covers aspects of chemical substances and their occurrence in the environment, including both naturally occurring and synthetic chemicals. This will include an introduction to atmospheric chemistry, aqueous chemistry, some aspects of food and nutrition, and chemical analysis of contaminants and pollutants. Specific topics may include decontamination of the ocean layer, the greenhouse effect, photodegradation, the global chemical cycles of some of the elements essential to life, natural waters, acid rain, drinking water, sewage and waste disposal, chlorinated organic compounds and metals in the environment. Chemical concepts utilized include the calculation of reaction rates and equilibria, and the structures and reactions of organic and inorganic compounds. This course is intended for non-chemistry Majors and cannot be included in a Chemistry programme.

Two one-hour lectures per week.

Exclusions: CHMA07Y

Session: Winter Day

**CHMC22F Experimental Physical Chemistry**

**Telephone ID:** 02822333

The course is a continuation of CHMB22Y. Further topics in physical chemistry are treated, including molecular spectroscopy, topics in statistical mechanics and advanced topics in kinetics.

The spectroscopy portion will primarily be concerned with the use and interpretation of various techniques (IR, UV/VIS, NMR, etc.). Equilibrium and nonequilibrium statistical mechanics will be discussed, through calculation of partition functions for model systems (equilibrium) and treatment of diffusion and other transport properties, as well as the effects of noise (nonequilibrium). The advanced kinetics portion will cover oscillatory reactions, with examples drawn from chemistry, biochemistry and ecology. The approach of this course is more theoretical than that of CHMC22S.

Exclusions: C14202Y

Prerequisites: CHMB22Y, MAT3941F, MAT4042S

Session: Winter Day

**CHMC22S Environmental Physical Chemistry**

**Telephone ID:** 02822553

This course treats physical chemical topics of environmental and ecological importance, including colloidal and interfacial chemistry, atmospheric chemistry, and large scale physical and chemical transport processes. Colloidal chemistry deals with thermodynamic stability and phase equilibria in colloids. Atmospheric chemistry treats the chemical kinetics and photochemistry of the atmosphere, especially those relating to pollution and ozone depletion mechanisms. Transport properties as well as precipitation and diffusion are treated in an environmental setting.

This course has a more applied approach than that of CHMC22F.

Exclusions: C14202Y

Prerequisites: CHMB22Y

Session: Winter Day

**CHMC22Y Environmental Inorganic Chemistry**

**Telephone ID:** 02823353

This is a study of the sources, reactions and fates of chemical species in the water, soil and air. It covers the aqueous chemistry of important elements, redox equilibria, coordination complex formation, the role of essential and trace elements in biological systems, catalysis by microorganisms, water pollution, treatment and analysis, soil chemistry and atmospheric chemistry.

Much of the chemistry is rationalized in terms of the principles of electrochemistry and bonding introduced in CHMA07Y and CHMB33Y.

Chemical transport and other physical aspects are covered in CHMC22S.

Prerequisites: CHMB11Y, C14239 or by permission of instructor.

Session: Winter Day

**CHMC23Y Inorganic Chemistry II**

**Telephone ID:** 02823353

The objectives are to rationalize the structure, bonding, spectra and reactions of transition metal complexes. The introduction to the subject in CHMB33Y is expanded to include the analysis of the electronic spectra of complex, reaction mechanisms of d-block complexes, organometallic chemistry, and catalysis.

Two hours of lecture per week.

Exclusions: CHMB11Y, C14239, 339

Prerequisites: CHMB33Y

Session: Winter Day
An introductory course for students interested in the bio-medical sciences, designed to introduce students to a broad range of biochemical topics. Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism; structure and function of enzymes; and biosynthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed. Two-one-hour lectures per week. The text used in Biochemistry by L. Stryer, W.H. Freeman & Co. Publishers. Exclusions: CHMC335Y, BCI2020, 221

Prerequisite: BIOA03Y, CHMI454Y (or

CHMI455Y)

Session: Winter Day

CHGC598 Laboratory in Biochemistry Telephone ID #: 01335543

An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research. The course will introduce students to practical and theoretical aspects of techniques used in biochemical research, including: spectrophotometry; chromatography; radioisotope; electrophoresis; protein fractionation; etc. Three hours of laboratory plus one hour of lecture each week.

Exclusions: (BEC244H), BCI353Y, 371

Prerequisite: BIOA03Y, CHMI454Y (or

CHMI455Y)

Corequisite: CHGC35Y

Session: Winter Day

CHMC455 Introductory Inorganic Chemistry Laboratory Telephone ID #: 02833553

Synthetic techniques as applied to inorganic compounds, both main group and transition metal complexes, including some organometallic complexes. This course is meant to complement both CHMC335Y and CHMD355Y. Biological and environmental implications of the inorganic concepts presented in these two courses through primarily synthetic experimentation. Characterization of the products obtained will be done by both classical and instrumental methods, primarily infrared spectroscopy. The laboratory meets one day each week in the spring term for 6 hours.

Exclusions: (CHMC515Y), CHMN268, 269, 368, 369

Prerequisite: CHMI335Y

Corequisite: CHMC335Y

CHMC445Y Organic Chemistry II Telephone ID #: 02834463

An in-depth treatment of organic reactions and mechanisms, stereochemistry and configurational analysis, spectroscopy of organic molecules and reactions mechanisms, and an introduction to aromatics, photochemistry, free radicals, polymers, organometallic compounds, and the chemistry of naturally occurring molecules such as terpenes, steroids and carbohydrates. This course provides further experience in organic chemistry to students who have completed one course in the subject. The laboratory experiments are designed to complement the topics covered in lectures, with an emphasis on more advanced techniques, and the use of modern physical techniques and newer synthetic methods.

Two lectures and one three hour laboratory every week.

Exclusions: (CHMC307Y), CHMI349, 368, 369

Prerequisite: CHMI344Y

Session: Winter Day

CHMD505 Special Topics in Inorganic Chemistry Telephone ID #: 02834355

A selection of topics in inorganic chemistry. Recent developments are emphasized. The content of the course varies from year to year, so students should consult with the faculty members involved as to the specific areas to be covered in a given year.

This course provides an introduction to current research areas and their theoretical and practical importance in inorganic chemistry. The emphasis will be on fundamentals, but a good background in organic and physical chemistry is useful. Two lectures.

Exclusions: (CHMD485Y)

Prerequisite: CHMC355Y

Session: Winter Day

Not offered 1993-94

CHMD685 Introduction to Research Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 200 hours of effort.

The objective is to develop familiarity with some of the methods of modern chemical research. The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research.

Exclusions: (CHMC495Y), CHMI418, 428, 439, 449

Prerequisite: Permission of instructor

Corerequisite: One of the advanced laboratory courses at St. George (CHI4345F

or

CHI445F) (except for students undertaking a project in physical chemistry). Normally only for students following one of the Chemistry Programmes.

Session: Summer Day, Winter Day

Members of the Chemistry Faculty

CHMD695Y Library Thesis A report on a selected current topic in chemistry based on literature research and carried out under the direction of one of the chemistry staff. Approximately 260 hours of work are expected.

The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. To develop familiarity with the techniques of searching the chemical literature. The topic will be selected in conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.

Exclusions: (CHMD455Y) (CHMD465F/S5F)

CHMD315Y

Prerequisite: Permission of instructor.

Normally only for individuals who have completed fifteen full-course equivalents including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry Programmes.

Session: Summer Day, Winter Day

Members of the Chemistry Faculty

CHMD619Y Library Thesis Similar to CHMD695Y but representing 130 hours of work.

The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. To develop familiarity with the techniques of searching the chemical literature. The topic will be selected in conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.

Exclusions: (CHMD465F/S5F) (CHMD455Y)

CHMD95Y

Prerequisite: Permission of instructor.

Normally only for individuals who have completed fifteen full-course equivalents and including at least two C-level chemistry courses, and who are pursuing one of the Chemistry Programmes.

Session: Summer Day, Winter Day

Members of the Chemistry Faculty

Courses Not Offered 1993/94

CHMD345 Special Topics in Organometallic Chemistry and Catalysis

Prerequisite: CHMI335Y

Session: Winter Day

CHMD425 Special Topics in Physical Organic Chemistry Compsite: CHMI454Y

Session: Winter Day

CHMD485 Special Topics in Synthetic Organic Chemistry Compsite: CHMI454Y

Classical Studies

Discipline Representative: L. McDonald (287-7158)

Classical Studies introduces the student to the Greek and Roman World, its literature, history, religion and government. Greek-Roman civilization was the wellspring of western culture and the direct antecedent of much of what is central and familiar in contemporary Canadian society. Its achievements in many fields still set the standards by which modern scholars are judged. In most courses the original ancient Greek and Latin texts come alive in English translation, and the computer-based Perseus project in Staden Library presents sophisticated multi-media opportunities for exploring the ancient Greek world.

Major Programme in Classical Studies

Supervisor: L. McDonald (287-7158)

A new Major Programme in Classical Studies is in course of development. It is being designed to accommodate a range of new courses and to appeal to students with a number of different interests. Details of this programme will appear in the 1994/95 Calendar.

Students should note that

(i) everyone enrolled on November 1, 1992 in the programme described in the 1992-93 Calendar will be given the opportunity to complete it;

(ii) effective July 1, 1993, courses at all levels in both classical Greek and Latin (LAT201 / LAT300 / LAT301 / LAT302 / LAT303 / LAT304 / GRK201 / GRK202 / GRK203 / GRK204) will no longer be offered at the St. Michael's Campus;

(iii) students wishing to enrol in the new Major Programme to be introduced in September 1994 should register for the 1993/94 session in the Minor Programme defined below,
CLAB35F The Age of Homer

Telephonic ID#: 03002025

The world of Homer’s heroes as described in the Iliad and the Odyssey through archaeology. The course will cover the development of Homer and Greek epic, and also offer a survey of Mycenaean remains. Required reading will include Homer’s Iliad. The objectives will be to investigate the Homeric Poems as sources of history for a period of Greek civilization for which no substantial ancient documents exist (c.a. 1300-100 B.C.), and to appreciate the poetic qualities of the poems and to understand something of the circumstances under which they were composed; to impart a knowledge of the cultures described by Homer and known through excavation (e.g., Mycenae, Pylos, Tiryns, Mycenaean, etc.). Lectures will be illustrated by slides where appropriate. Readings will include the Iliad and the Odyssey in translation.

Exclusions: CLAS105, CLAS215, 225 Session: Winter Day A. Beddington Not offered 1994/95

CLA220F Selected Topics in Classical Literature

Telephonic ID#: 0300133

A detailed study of an author or a genre in Classical Literature in translation. For 1993/94 the topic will be ancient satire. The ancient Romans claimed to have invented it. Did they? The course will consider briefly the satiric elements in Greek poetry and prose but will concentrate on the development of the genre in the Roman classics. Authors to be covered include Lucilius, Horace, Persius, Juvenal, and Petronius. Subjects to be explored will be the nature of satiric vision, topicality versus universality, the social function of satire, the constraints of literary genre, and the influence of the great classical satirists on writers from other civilizations. Prerequisite: One full-course equivalent in CLA or another literature. Session: Winter Day I. R. McDonald Not offered 1994/95

CLA227F Ancient Drama: Comedy

Telephonic ID#: 0300373

An exploration of the nature and intent of comic drama in classical Greece and Rome, its conventions, historical origins and cultural and political context. The course improves students to the plays of Aristophanes, Menander, Plautus and Terence. Its objective is to stress an engagement and appreciation of Old, Middle, and New Comedy through reading of representative texts and consideration of what makes them work, both in literature and social documents.

Exclusions: CLAS105

Prerequisite: CLAS107 or one full-course equivalent in English or another literature Session: Winter Day I. R. McDonald Not offered 1994/95 Offered 1995/96

CLA100S Ancient Epic: The Literary Tradition

Telephonic ID#: 0303103

Literary and "secondary" epic as a self-conscious development in the Greek and Roman epic tradition.

The course will examine Apollonius Rhamnus, Vergil's Aeneid, and Ovid's Metamorphoses as landmark achievements in European literature, with brief notice of subsequent developments in the genre of "literary" epic. How does "secondary" epic grow out of the oral tradition, and what makes it different? What are the qualities which have given these poems their permanence? Is epic possible after Virgil?


CLA211Y Greek and Roman Religion

Telephonic ID#: 0300213

A study of religion in the Greek and Roman worlds.

The course will explore the origins of Greek and Roman religion, the importance of Homer and Herodotus, city cults, popular religion, the spread of eastern religions, the role of religion as a political instrument, and the introduction of Christianity.

Exclusions: CLAS211Y

Prerequisites: CLAS101 or CLAS102 Session: Winter Day I. R. McDonald Not offered 1994/95

CLA212F Supervised Study in Classics

Telephonic ID#: 0300213

Directed independent study on a topic or topics in classical civilization or culture. This course is intended for seniors enrolled in the Major Program in Classical Studies as offered in 1993/94 and previous years who are unable to complete the major program requirements with the course load of the Coordinated Areas of study will be selected in consultation with
Greek and Roman History

GRKB05Y The Roman World
Telephone ID: 07120463
An introduction to the Roman World.
The course will study the origins and rise of Rome in its natural and social contexts. Special attention will be given to the Roman army and the social and political system which supported it, the economic basis of the Roman state and the social and economic impacts of Roman expansion, especially as evidenced in slavery, agricultural development and urban life. It will be the objective of this course (i) to broaden the student's awareness of the major phases of Roman history and the major social and economic structures supporting the Roman state and (ii) to suggest how the distinctive experience of Rome is fundamental to our understanding of the later history of the Western World.
Exclusions: (GRKB05Y), (ORH50Y)
Session: Winter Evening
J.H. Garret
Not offered 1994/95

Greek

GRKB13F Intermediate Modern Greek
Telephone ID: 07221333
The study of the modern Greek language.
This course is designed for students with some background in the language. In addition to vocabulary building it aims at consolidating a knowledge of grammar and syntax and developing skills in composition.
Prerequisite: None
Exclusions: (GRKB130), MGR246, GRK236, Lyceum Diploma from Greece
Session: Winter Day
G. Kirkopoulos
Offered 1994/95 and 1995/96

GRKB145 Advanced Modern Greek
Telephone ID: 07221433
An intensive study of the language in its social and political contexts, including readings of annotated literary prose works.
Prerequisite: GRKB13 or permission of instructor
Exclusions: (GRKB130), MGR246, GRK236, Lyceum Diploma from Greece
Session: Winter Day
G. Kirkopoulos
Offered 1994/95 and 1995/96

GRK225Y Images of Modern Greece: 1826 to the Present
Telephone ID: 07223263
An examination of the social, political, and cultural development of modern Greece in the last quarter-century.
This chronological study of one of the most volatile moments in modern Greek history will focus first on the time of theMXenian dictatorship, World War II and the civil war; then on the "boom" years from 1960 to 1967; and finally on the period from the establishment of the military junta to the present. Analysis of social, economic, and political phenomena will be complemented by a detailed study of cultural expressions in such diverse fields as literature, music, theatre, cinema, and folklore. Our field of inquiry will include selections from the work of poets, novelists, and dramatists such as Sopostratos, Elytis, Vrettakos, Tsakiris, and Kefallina, of Kardas Konas and the Art Theatre; of several composers Thodorakis and Hatzidakis, and their peers; and of the folk music of Samos. The final stage of the course will stress developments of the last decade.
Exclusions: (GRK232, GRK235)
Prerequisite: (GRKB130), GRK14, or permission of instructor
Session: Winter Day
G. Kirkopoulos
Offered 1994/95

GRCSC02G GRCSC02G
Greek Supervised Reading in Modern Greek
Reading of texts in Modern Greek chosen by consultation between student and faculty.
Students who wish to enter the supervised reading program should meet in any of the above courses. They should then contact the co-ordinator and discuss what they wish to read (this will depend on some extent on time available). The student will meet regularly with the instructor - the exact arrangements depending on the difficulty of the chosen text and the level of the student's ability. Problems in the text will be discussed as well as the literary qualifications and cultural context of the work being studied.
Exclusions: (GRKB035, GRKB535, GRK840, GRK846)
Prerequisite: One of GRK14, GRK22, GRK23, GRK24, or demonstrated competence in reading Modern Greek
Session: Winter Day
Co-ordinator: G. Kirkopoulos
Offered 1993/94 and 1994/95

Cognitive Science

Cognitive Science 43

GRB01Y Greek History from the Bronze Age to the Death of Alexander
Exclusions: GRKB01Y or any related GREE course
Not offered 1994/95

GRBC5Y Political and Social Life in Classical Athens
Exclusions: GRKB01Y or any related GREE course
Not offered 1994/95

GRCA29Y The Romanization of Western Europe 200 BC - AD 400
Exclusions: GRKB01Y or any related GREE course
Not offered 1994/95

Cognitive Science

GRB29Y Modern Greek Music
Offered 1994/95

GRCC29Y Modern Greek Cinema and Theatre
Exclusions: (GRKB10), GRK835 or GRKB14 or CLA001 or some related course in Greek or Cinema or Drama
Not offered 1994/95

GRCA29Y Classical Themes in Modern Greek Literature
Exclusions: (GRKB10), GRK835 or GRKB14 or any related course in GRK, CLA00 or GREE
Not offered 1994/95

Cognitive Science

GRCA01Y Cognitive Science 1
Exclusions: (CLAS01), CLA010, CLA125, CLA125
Prerequisite: CLA001 or some related course in English or another literature
Offered 1994/95
Not offered 1994/95

CLA01Y Cognitive Science 2
Exclusions: (CLAS01), CLA010, CLA125, CLA125
Prerequisite: CLA001 or some related course in English or another literature
Offered 1994/95
Not offered 1994/95

CLA03Y Cognitive Science 3
Exclusions: (CLA01), (CLA010), (CLA125), (CLA125)
Prerequisite: CLA001 or some related course in English or another literature
Offered 1994/95
Not offered 1994/95

Supervisor: R.I. Bunnik
Cognitive Science is the study of knowledge - how human beings, other animals, and even machines acquire knowledge, organize and store that knowledge, and use that particular knowledge to solve problems. Cognitive scientists are particularly interested in the way we use symbolic systems, such as natural or computer languages, drawing, or mathematical notation, to organize our experience of the world. Cognitive Science considers questions like: Are we born with some knowledge already in place? How does our experience of the world allow us to...
Computer Science

Discipline Representative: V. Hatzisilos (287-7256)

Computer science is the study of the use of computers to process information. The form of this information may vary widely, from the business person's records or the scientist's experimental results to the linguist's texts. One of the fundamental concepts in computer science is the algorithm—a list of instructions that specify steps required to solve a problem. Computer science is concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Closely related is the development of tools to foster these goals.

Programming languages for expressing algorithms; operating systems to manage the resources of a computer; and various mathematical and statistical techniques to study the correctness and efficiency of algorithms. Theoretical computer science is also concerned with the inherent difficulty of problems that can make them intractable by computers. Numerical analysis, data management systems, computer graphics, and artificial intelligence are concerned with the applications of computers to specific problem areas.

The Specialist Programme in Computer Science prepares a student for graduate study and for a professional position in the computer field. In the Specialist Programme for Data Management there is an emphasis on information system development, an area of increasing importance to business, industry, and government. It can lead to graduate study but is designed primarily to prepare a student for a professional position.

Students interested in computer studies should also refer to Specialist and Major Programmes in Computer Science.

Phase II of the Physical Sciences section of the Calendar for the following six Programmes:

Specialist Programme in Computer Science and Mathematics

Specialist Programme in Computer Science and Physics

Specialist Programme in Co-op Computer Science and Physical Sciences

Specialist Programme in Physical Sciences

Major Programme in Mathematical Science (Computer Science)

Specialist Programme in Computer Science for Data Management

Supervisor: G. Capit (287-7253)

NOTE: Due to enrollment restrictions in required management courses, registration in this Programme is limited. A maximum of twenty students will be admitted annually to the Second Year of the Programme. Selection will be based on grades in first-year courses in Computer Science and Calculus. There are thirteen and one-half courses required for the Specialist Programme in Computer Science for Data Management. The courses may be taken in 'x' different order than that listed below, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

First year:

CSC248Y, MATA26Y or (MATA27Y) or (MATA54Y), MATA40Y, MATA02Y, ECON24T

First or Second Year:

CSC270Y

Second year:

CSC290Y, CSCB38F, CSCB38S, ECOM29T or ECOM29S, both MATH24F and MATH24S or MATH24Y

Third year:

CSC248S, CSCB29F, MGT102Y, STA475Y*

* A lower level statistics course is normally a prerequisite to STA475Y.

Third or fourth year:

CSC245Y, 344

These half-courses are to be chosen from the following options. Each student must choose one or two of CSC234Y, CSC235F, CSC235S, 340, 372, 418, 428, 444, 454, 458, 468, 484, 485, 488, including at least one of:


Note that only CSC250, C51, C54, C64 and C85 are available at Scarborough; the remaining courses must be completed before graduation at the St. George Campus.

Consult the Department of Computer Science Undergraduate Student Handbook. In completing the Programme, a student is encouraged to include in any Computer Science course other than those required above.

The following courses are offered only on the St. George Campus. Consult the Department of Computer Science Undergraduate Student Handbook for more details.

CSC300 Computers and society

CSC318 Computer graphics and applications

CSC335 Numerical methods

CSC340 Information systems analysis and design

CSC372 Microprocessor software

CSC418 Interactive computer graphics

Computer Science 47

Human-computer interaction

Data management systems

Computability and logic

Software design and construction

Computational methods for partial differential equations

Formal languages and automata

CSC535 The basics of software

CSC538 Computer networks

CSC565 Programming methodology

CSC568 Operating systems

CSC578 Computer algorithms

CSC584 Applied artificial intelligence

CSC585 Introduction to computational linguistics

CSC588 Language processors

Major Programmes in Computer Science

The Major Programme in Computer Science is no longer offered. Students registered in it will be allowed to complete it.

CSCA027F How Computers Are Used

TelephoneNumber ID #: 03110233

CSCA028F: 03110245

Parts of a computer and their interconnection. System operations—commands, files, security. Common applications: games, text processing, spreadsheets. Problem solving with computers: algorithms and basic programming concepts. Other applications and topics: data organization, communications, office automation, artificial intelligence, computing in other academic disciplines. Students will use micro-computers and will do some programming, but the aim of the course is to show how computers are used, and not to teach programming.) Primarily for non-science students, but may be followed by other CSC courses.

Exclusion: 5MC104H; 6MC104H; CSC104; (CSCA04A) CSCA06S

This course may not be taken after or concurrently with any other CSC course.

Session: Winter Day

CSCA03F: Computer Basics

TelephoneNumber ID #: 03110063

Basic concepts and terminology

Introduction to programming using the Turing language: Conditional statements and loops, arrays and records, subroutines. Use of computers: spreadsheets, database packages, computer graphics, word processors, communication packages.

This course is intended for students with no prior exposure to computer programming. Students who have some
programming experience may enroll directly in CSCA58. Students who are primarily interested in the use of computers, rather than in computer programming, will find CSCA458 more relevant. This course may not be taken for credit after or concurrently with any other CSC course.

Exclusion: CSCA402, CSCA104, SMC104, VRC 104.

CSCA458 Introduction to Scientific Computing
Telephone ID: 03715753
An introduction to the use of computers in the physical sciences. Choice and design of algorithms and their implementation in a high-level computer language, such as C or FORTRAN, for the solution of problems arising in the physical sciences. Topics will include elementary numerical analysis, such as numerical integration, mathematical modelling of physical systems, data fitting and interpolation. The use of database systems for information storage and query and the use of graphical display devices and software for visualization of physical systems will be considered. The use of computer algebra systems in the physical sciences will also be considered. (Continued primarily for physics students who do not plan to pursue any of the Programmes in Computer Science or Cognitive Science.)
Corerequisite: MAT426Y, PHY401Y.

CSCA459 Introduction to Computing
Telephone ID: 03715833
Design and analysis of algorithms; reasoning about programs, their correctness and efficiency. Functional abstraction and modular design: subprograms, recursion and data abstraction. Abstract data types and data structures. Comparison of several sorting and searching algorithms. Students with no programming experience may wish to take CSCA46 before CSCA58. Students who enroll in CSCA459 and find the course too difficult may "drop down" to CSCA409. The deadline for "dropping down" is October 15. (The option of "dropping down" is not available in the Spring, since CSCA460 is offered in that semester.)

Exclusion: One in Analysis and Geometry, one other OAC in Mathematics, and some programming experience.
Session: Winter Day.
Note: Students who have completed CSCA459 may not subsequently receive credit for CSCA460.

CSCB065 Software Tools in Unix and C
Telephone ID: 03720093
Introduction to programming in the C language and to the use of programable command interpreters (shells) in the UNIX operating system. Practice with UNIX software tools; their strengths and weaknesses.
Exclusion: CSC209
Prerequisite: CSCA58
Session: Winter Day.

CSCB210 File Structures and Data Management
Telephone ID: 03722833
An introduction to techniques for storing, accessing, and managing long-term data in computer systems. Hardware and software aspects of data processing: processors, storage devices, communications, file I/O control. Techniques for organizing and managing files: sequential files, direct files, indexed files, directory files, indexed files, file systems. Introduction to data base management systems with emphasis on relational data base systems.
Exclusion: CSC228
Prerequisite: CSCA58
Session: Winter Day.

CSCB282 Discrete Mathematics for Computer Science
Telephone ID: 03723833
A rigorous treatment of certain aspects of discrete mathematics with applications to computer science. Emphasis on the basic properties and fundamental algorithms concerning integers (including induction, Euclidean algorithm, modular arithmetic), and on logic (including propositional and predicate calculus and simple formal theories). Application to topics such as program correctness, formal program verification, algorithms from graph theory, and elementary set theory.
Exclusion: CSC228
Prerequisite: CSC58
Corerequisite: MAT404Y (MAT401)
Session: Winter Day.

CSCB285 Computer Organization
Telephone ID: 03725833
This course is designed to give students an understanding of the operation and the hardware of a modern digital computer. Specific topics include: an introduction to boolean algebra, the design and analysis of gate networks, memory devices, the organization of a computer programmed machine, basic data representation, assembly language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. There will be four laboratory periods in which students will construct experiments with digital logic circuits.
Enrollment limit: 100.
Exclusion: CSC258
Prerequisite: CSCA58 or CSCA57 (strongly recommended: PHYA11)
Session: Winter Day.

CSCB290 Computer Applications
Telephone ID: 03727033
An introduction to the representation and applications of graphs, computer simulation models, artificial intelligence, and numerical methods, including the use of data types such as stacks, queues, trees and heaps. Some exposure to languages such as Fortran, PL/1, and Pascal. Two hours of lectures, and a two-hour tutorial per week.
Exclusion: CSC118, 158, 160, 250, (CSCA60)
Prerequisite: CSCA58, or CSCA57 and permission of instructor.
Corerequisite: MAT202 or (MAT207)
Session: Winter Day.

CSCC245 Principles of Programming Languages
Telephone ID: 03732483
A wide variety of programming styles and the programming languages that support them. Emphasis on recursion and concurrency; other programming regimes such as backtracking and concurrence. Language features such as pattern matching, programs as data, and module encapsulation. Examples from languages such as Lisp, Concurrent Pascal, Prolog, Smalltalk, and Simula. Enrollment limit: 100.
Exclusion: CSC245
Prerequisite: CSC328 (strongly recommended: CSC358)
Session: Winter Day.

MATC11F Combinatorics
Telephone ID: 20431153
A brief survey of the field of discrete mathematics is with emphasis on problem solving. Elementary counting, generating functions and difference equations, permutations with constraints, Polya counting, graphs, network flow problems, balanced incomplete block designs, incidence structures.
Exclusion: (UMC221)
Prerequisite: MAT344/CSCE348 and at least one other B-level course in Mathematics or Computer Science.
Session: Winter Day.

CSCC56F Numerical Algebra and Optimization
Telephone ID: 03735033
The efficiency and stability of solution techniques for systems of linear equations and least squares problems, including LU- and QR-based methods. Algorithms for optimization problems, including linear programming, and theory of nonlinear equations.
Exclusion: CSC369, CSC350
Prerequisite: CSC57 or CSC57H (or CSCA60), MAT407, MAT481F and MATB465 or (MATB507)
Session: Winter Day.

CSCC51F Numerical Approximation, Integration and Ordinary Differential Equations
Telephone ID: 03751513
Exclusion: ACT231H, CSC336H, (UMCC51), CSC351
Prerequisite: CSC57, or (CSC68) or CSC69, MAT407, MAT481F and MATB465 or (MATB507)
Recommended Preparation: CSC350
Session: Winter Day.

CSCC545 Effective and Efficient Computing
Telephone ID: 03756453
Exclusion: CSC364
Prerequisite: CSC351 or (CSCB290)
Session: Winter Day.

CSCC79F Data Structures and Algorithm Analysis
Telephone ID: 03779833
Abstract data types such as priority queues and dictionaries. Advanced data structures for main memory resident information, such as B-trees, hash maps, red-black trees, self-adjusting trees and balanced search trees. Algorithm analysis: worst case, average case, and amortized complexity. Introduction to lower bounds. Emphasis is
given to problem solving and a theoretical understanding of the data structures.
Exclusion: CSC495
Prerequisite: CSC282 and CSC283
Session: Winter Day
CSC305F Microprocessor Systems
Telephone ID #: 0373853
Hardware and software aspects of microcomputers and microprocessors.
Instruction sets, addressing modes, memory devices, bus structures, input/output and
interrupt mechanisms. Assembly language and high-level language programming.
Systems and applications software. Laboratory experiments will provide hands-
on experience. Enrolment limit: 45.
Exclusion: ELE1085
Prerequisite: CSC381, and PHYA101Y or
PHYA115 or permission of instructor.
Session: Winter Day
CSCDNN Computer Science Project
Telephone ID #: 03749443
This half-course involves a significant project in any area of computer science.
The project may be undertaken individually or in small groups. The course is offered
by arrangement with a computer science faculty member, at Scarborough or the St.
George campus.
This course is intended for students specializing in computer science. It can be
taken as an F or S course in a single term, or as an H course spread over an entire winter
or summer session. Projects must be completed by the last day of classes in
the term or session the course is taken.
Exclusion: CSC304
Prerequisite: Three C-level computer
science half-courses, a GPA of 2.50, and
permission of the Program Supervisor.
Enrolment procedures: Project Supervisor's
note of agreement to be presented to the
Program Supervisor by whom a Special
Registration will be issued for registration.
Session: Winter Day
CSCDNN Computer Science Project
Telephone ID #: 03750453
Same description as CSCDNN. Normally a student may not take two project half-
courses on closely related topics or with the same supervisor.
If an exception is made allowing a second project on a topic closely related to
the topic of an earlier project, higher standards will be applied in judging it. We expect
a student with experience of a first project completed will be able to
perform almost at the level of a graduate student.
Exclusion: CSC495
Session: Winter Day
Courses Not Offered in 1993-94
MATH22F Graph Theory and Algorithms
for In-Applications
Exclusion: MATC221
Prerequisite: MATH131 or
MATB44 or CSC384B and at
least one other 3-level course in
Mathematics or Computer
Science.
CSC304F Computer-Based Simulation
Models
Exclusion: CSC354
Prerequisite: CSC181 (or
CSC141) or STAB357S
Co-operative Programme in
Administration
Director: H. Wittmann (287-7107)
Co-director: B. Abramson (287-7112)
Supervisor of Students: TBA
The Co-operative Programme in
Administration is a work-study programme
which combines academic studies, primarily
in Management, Economics and Political
Science, with work experience in public and
private enterprises. The programme alternates study terms with work terms and
typically requires almost five years to
complete. Administrative students learn
through both studies and practical
experience about:
- decision-making in both business and
government
- the management of policies and programmes
developing with complex economic, political, social and business
problems
- financial and management accounting
- the allocation of resources
- policy and economic analysis
Students prepare for careers in business, government, regulatory agencies, crown
corporations or for further studies in the
Social Sciences (MA). Business Administration (MBA), Public
Administration (MPA), Chartered
Accountancy (C.A.), Law (LLB), Industrial
Relations (MIR) and Education (B Ed).
Admission to the Programme
Applicants apply to the programme
directly from secondary school or may
apply as transfer students from college or
first-year university. The timing of work
placements for students who receive transfer
credit will depend upon the particular
university courses completed. When
applying, applicants must indicate the
special code for this Scarborough Campus
programme on the Application For
Admissions To An Ontario University. Once
the University of Toronto is notified of the
application, candidates are sent an
additional co-op application form to
complete. This co-op application must be
received by the Scarborough College
Registrar's Office no later than April 15, 1993
to ensure an applicant's consideration. In
order to allow sufficient time for processing,
it is therefore important that the applicant
apply to the University of Toronto by March
1, 1993.
Note that enrolment in the programme is
limited. Admissions are granted on the basis
of applicants' interest and potential
ability in administration, accomplishment
and grades in both verbal and quantitative
studies, and a letter of reference from a high
school teacher or university instructor.
Interviews may be required.
Fees
Every student in a co-operative programme is required to pay additional fees as
established by the University.
Specialized (Co-operative) Programme in
Administration
This programme requires eight-four month
terms of study, four work terms and two
"off" terms over a five-year period. In addition to
the twenty full-course credits needed for
graduation, extra credits will be awarded for
the work terms. Students begin with a full year
of academic study, then
alternate study and work terms, and conclude
with a final eight month study.
Exceptionally, with the agreement of the
director and co-ordinator, a fifth work term may
be allowed. Work terms are arranged and
scheduled by the Office of Co-operative
Programmes but must be won by students in
competition with co-operative students
from this and other universities. During
work terms students gain experience in a wide
range of departments of government, business enterprises or public
dependencies on their needs and
abilities students work in areas such as
accounting, administration, auditing,
communications, economic development,
finance, human resources/personnel,
information systems, marketing, policy
and strategic planning.
Career in Accountancy
The college offers a significant number of courses which have been recognized as
meeting part of the educational training of Chartered Accountants, Certified General
Accountants and Certified Management
Accountants. Appropriate co-op work
terms with designated C.A.'s firms will be
recognized by the Institute of Chartered
Accountants of Ontario as part of their
undergraduate requirement.
Evaluation of Work Term
Performance on each work term is evaluated by both the employer and co-ordinator.
Students must submit for evaluation a report for each work term which integrates
knowledge gained during the work term with academic study already completed.
To maintain standing in the
programme, to be eligible for a work term,
and to receive specialist certification upon
graduation, a student must
- complete a full-time course of studies (at
least two full-course equivalents and
normally 2.5) during each study term
- maintain a cumulative grade point
average of 2.50
- receive a satisfactory evaluation for work
term performance and work term reports
Note:
1. EACH COURSE MAY BE COUNTED
ONCE ONLY IN SATISFYING WORK
PLACEMENT AND PROGRAMME
REQUIREMENTS
2. IF IT IS THE STUDENT'S INDIVIDUAL
RESPONSIBILITY TO ENSURE THAT
THEY HAVE COMPLETED THE
CORRECT NUMBER OF CREDITS TO
BE ELIGIBLE FOR EACH WORK
TERM AND THAT THEY HAVE
PROPERLY COMPLETED PROGRAMME
AND ORDERED REQUIREMENTS FOR
GRADUATION.
Eligibility for work terms
To compete for a work term a student must be in good standing in the programme and
must have completed
- for the first work term: seven full-course equivalents, including one of ECOA02 or
ECOAM3, MG1201, MG1202, POL430, and one of the courses listed in Section A,
below
- for the second work term: nine full-course equivalents including the above courses,
and MG2303, ECON202 or ECON404,
- for the third work term: eleven full-course equivalents including the above courses,
Co-operative Programme in Administration

A statistics half-course from section A, II, (Q1703) and ECO3026Y is required.

For the fourth term work, thirteen fullcourse equivalents including the above courses.

Curriculum

In the first two years of study all students follow a common core of studies (section A below). The choice should be made on the basis of the student's goals, personal interests and skills. Special courses may then be chosen (section B, below) from the following fields of administrative studies: Economic Policy, Policy Analysis, and Management. Development of these courses is under the supervision of a group of faculty members with specialization in the relevant area. To complete the program, the student must successfully complete a minimum of 120 credits or 60 full-course equivalents. Specialization in this field is encouraged. To advance in this field, students are required to attend at least 30 full-course equivalents in the field of study during the fourth year. Specialization in the field is required for admission to the Co-operative Program in Administration.

A. Core Courses

1. Social Science Foundations

   Required (6.5 full-course equivalents)

   - Economic Courses
     - ECO2026Y Introduction to Economics
     - ECO2036Y or ECO2046Y Price Theory
     - Management Courses
     - MGT202Y Introduction to Management
     - MGT203Y Financial Accounting
     - MGT204Y Management Accounting
     - MGT205Y Organizational Behaviour
     - Political Science Courses
     - POL205Y Introduction to Canadian Politics
     - Basic Skills Required (1.5 full-course equivalents)
       - Computer Science
       - CISC202Y/3 Y How Computers Are Used
       - CISC302Y/6 Y Computer Basics: Fundamental Concepts and Terminology
     - Statistics
       - ECO2016Y Quantitative Methods in Management
     - Environment
       - ECO2026Y Public Decision Making
     - Economics of the Public Sector
     - BEHAVIOURAL FOUNDATIONS Required (1.0 full-course equivalent)
       - Social Science Foundations
       - Human Nature: An Anthropological Inquiry
       - Organizational Design
       - Comparative Behavioral Organization
       - Management Ethics
       - Social Issues
       - Introduction to Psychology
     - Electives
       - PSY201YS Introduction to Social Psychology
       - SOC333Y Sociology of Work & Industry
   - Historical & Cultural Foundations Required (2.0 full-course equivalents)
     - To be selected from the Humanities Division and must include one of:
       - HIS102Y The European World: An Introduction to History
       - HIS202Y History of the Modern World
       - HIS302Y History of the United States
       - HIS402Y Introduction to Canadian History
     - Language
       - Arts language course beyond the Grade 10 or OAC level
   - Advanced Options
     - (4.0 full-course equivalents)
     - To be selected from one of the following areas:
       - Economic Policy
         - Required:
           - ECO2026Y or ECO2036Y
         - 2.0 full-course equivalents in Economics
         - 1.0 full-course equivalent in Political Science or Management
     - Policy Analysis
       - Required:
         - 3.0 full-course equivalents in Political Science selected from: Canadian Government, Public Policy/Public Administration, or Comparative Politics
     - Management
       - Required:
         - 3.0 full-course equivalents in Economics
     - Electives
       - 3.0 full-course equivalents in Economics

Co-operative Programme in Arts Administration

Director: H. Wittwer (287-7107)
Co-ordinator: D. Quinn (287-7114)
Supervisor of Studies: J. Mayo (287-7191)

The Co-operative Programme in Arts Administration is designed for students with an interest in both the arts and in business and management, and normally requires four to five years to complete. It combines academic study with a wide variety of subjects with practical work experience, preparing students for permanent employment as arts administrators, or for further studies in Business Administration, Museum Studies, Drama, Music or Art History.

Admission to the Program

Applicants may apply to the programme directly from secondary school or may apply after completing their first year. The timing of work placements for students who receive transfer credit will depend upon the particular department, and must be coordinated with the Co-operative Program Co-ordinator. Special permission is required for the Scarborough Co-op Program. Applications for Co-op Programs in Arts Administration must be submitted to the Co-ordinator of the Co-operative Program by April 15, 1980.
to ensure an applicant's consideration. In order to allow sufficient time for processing, it is therefore important that the applicant apply to the University of Toronto by March 1, 1969.

Note that enrolment in the programme is limited. Interviews are held normally in May for students who pass the initial screening. Admissions are granted on the basis of applicants' academic performance, background in one or more of the arts, interest and potential ability in Arts Administration, and a letter of reference from a high school teacher or university instructor. Faculty in Mathematics at the high school level is highly desirable.

Fees
All students in a co-operative programme are required to pay additional fees as established by the University.

The Specialized Co-operative Programme in Arts Administration requires twenty academic courses (four years) of study and two work terms of four months each. Students complete 8.5 full-course equivalents in (A) the administrative field, 6.0 full-course equivalents in (B) the artistic field, and 5.5 additional full-course equivalents from (C) as elective field. In addition extra credits are awarded for the work terms.

A. Administrative Field of Study
The following 8.5 full course equivalents are required:
- AAD00Y Introduction to Arts Administration
- ECOA0Y Introduction to Economics
- ECOB25FS Public Decision Making
- HUMA30Y Composition: An Introduction to Expository Writing
- MGT220Y Introduction to Management
- MGT227Y Organizational Behaviour
- POLA0Y Introduction to Canadian Politics

In addition, students are expected to use some of their elective field (C) to take further courses in administration. The following courses are recommended:
- CISC200Y How Computers are Used
- ECON20Y Macroeconomic Theory and Policy
- MGT6066Y Management Accounting

B. Artistic Field of Study
Six full-course equivalents from one of the following fields:
- DRA120F The History of Theatre I
- ENGW11Y 19th Century Drama
- ENGW21Y 20th Century Drama
- HUMA30Y Composition: An Introduction to Expository Writing
- MGT220Y Introduction to Management
- MGT227Y Organizational Behaviour
- POLA0Y Introduction to Canadian Politics

C. Elective Field of Study
A further 5.0 full-course equivalents chosen in conjunction with the programme supervisor. The purpose of the elective field is to allow students some flexibility in shaping a degree programme to their interests and future needs. In making their choices students should remember that a working knowledge of a second language, especially French, may be particularly valuable. Students can choose one of the following options:

1. Courses chosen from a number of different subject areas with the aim of providing breadth to the student's programme.

2. A coherent selection of courses in one subject area.

3. Further concentration in the chosen artistic field (B), or in the administrative field. This option is particularly valuable for students wishing to complete the specialist requirements in their artistic field, or for students contemplating graduate study in the arts or in Business Administration. Students considering careers in a museum or graduate work in Museum Studies should use this option to take an approved programme of courses in anthropology and other related disciplines. Students selecting either 2. or 3. will need to consult also with the programme supervisor in the chosen subject. The programme supervisor of Arts Administration can supply details of general elective packages.

CONSULTATION WITH THE SUPERVISOR OF STUDIES IS ESSENTIAL FOR ALL STUDENTS IN EACH YEAR OF THEIR PROGRAMME. IN ADDITION ALL PROGRAMME AND COURSE CHANGES MUST BE APPROVED BY THE SUPERVISOR OF STUDIES.

Work Terms
Work terms may begin in September, January or May and students are normally eligible for a work placement after their second year of study. The places of work will vary widely according to availability and to the student's needs and abilities. Although the work placements are arranged by the co-ordinator of the Arts Administration Programme, they must be won by students in competition with all applicants for the position.

Performance on work terms will be evaluated by both employer and co-ordinator. Students must also submit at the end of each work term a report which integrates knowledge gained during the placement with academic study already completed (see AAD20Y and AAD20Z).

Eligibility for Work Placements
To compete for work placement a student must be in good standing in the Programme and must have completed at least ten full-course equivalents including:
- two full-course equivalents from the artistic field
- AAD00Y (Introduction to Arts Administration)
- HUMA30Y (Composition: An Introduction to Expository Writing)
- MGT220Y (Introduction to Management)
- MGT309Y (Financial Accounting)

Normally, students return to their studies after each work term, and must be registered in courses after the completion of their last work term. AAD20Y is taken after the completion of the first work term.

Standing in the Programme
Students on co-operative programme, to be eligible for work placement and to receive specialist certification upon graduation a student must maintain a cumulative grade point average of 2.50.

- receive a satisfactory evaluation for work term performance and work term reports
- complete a full course of study (at least two full-course equivalents and normally 2.5)
during each study term - participate in special events and seminars arranged by the co-operation.

Course in the first two years of the programme:
The first year of the programme should consist of five full-course equivalents in the arts field such as ECO201Y, HUMA20Y, or a foreign language course, or a further course in the arts or administrative field.

The second year of study should consist of five full-course equivalents in the arts field such as ECO201Y, HUMA20Y (if not taken in first year) and a balanced mixture of administrative and artistic courses.

ADDD0Y Introduction to Arts Administration and Policy
Telephone: ID #: 0012078
The theory and practice of arts administration and policy in Canada. The course will examine all aspects of arts administration and policy, from the economic and financial problems of artists, arts organizations, service and funding agencies, to the formulation of municipal, provincial and federal arts policies. Topics include marketing of artistic works, publicity and promotion, fund-raising, audience development, corporate, foundation and government support, and Canada's domestic and international arts policies. The teaching methods will include lectures, class participation, term papers and guest speakers. Exclusions: (EUMD01) Session: Winter Day 10

ADD02Y Arts Administration Co-Op Work Terms
The Arts Administration Work Terms form an integral part of the co-operation curriculum. They are designed to provide a student with practical experience in an appropriate setting, thereby enhancing the student's academic studies and developing professional and personal skills. To be eligible for a work term, a student must be in good standing in the Programme and have completed certain required courses (see page 55) and pre-placement seminars. The work term report prepared by the student is a vital component of each placement experience. Course credit for 0.5 full course equivalent is earned for each four month work period. Work term credits are in addition to the 20 full-course equivalents requirements and are graded as either A, B, C or D. No Credit system. There are no additional course fees for work terms.

AADD01Y Senior Seminar in Arts Administration
Telephone: ID #: Cuppa (287-7253)
The course will deal with selective problems and issues in arts administration and policy. Capitalizing on the practical experience students have gained in the field, this seminar will examine such basic problems and issues in board management relations, corporate sponsorships, dealing with the creative personality, motivating volunteers, crisis management, the role and responsibilities of governments and arts councils, and future directions in Canada's internal and external arts policies. Students will be expected to make presentations on these topics for discussion and evaluation in class. Extensive use will be made of case studies.

Enrollment is limited to students who have completed at least one work term in the Specialist Co-operative Programme in Arts Administration, or by permission of the instructor. Exclusion: (EUMD10) Session: Winter Day 3

Co-operative Programme in Computer Science and Physical Sciences

Director: H. Wittmann (287-7107)
Co-ordinator: C. Dyer (287-7106)
Superior of Studies: C. Dyer (287-7206)
The Co-operative Programme in Computer Science and Physical Sciences is a work-study programme that combines academic studies in computer science, and other disciplines in the physical sciences with work placements in public and private enterprises. The programme alternates study during the regular academic term (September to May) with work terms during the summer term (May to August).

The programme provides students for permanent employment with government and business enterprises concerned with research and technology as well as for graduate study in computer science. Graduates receive a four year B. Sc. with a specialist certification in Computer Science and Physical Sciences.

Admission to the Programme
Applicants may apply to the programme directly from secondary school or may apply as transfer students from college or first-year university. The timing of work placements for students who receive transfer credit will depend upon the particular university course completion. When applying, applicants must indicate the special aid for this Scarborough Campus programme on the Application for Admission to Arts University. Once the University of Toronto is notified of the application, candidates are sent an additional co-operative application form to complete. This co-operative application must be received by the Scarborough College Registrar's Office no later than April 15, 1995 to ensure an applicant's consideration. In order to allow sufficient time for processing, it is important that the applicant apply to the University of Toronto by March 1, 1995.

Note that enrolment in the programme is limited. Services are granted on the basis of the applicants' academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview may be required.

Fee
Every student in a co-operative programme is required to pay additional fees as established by the University.

The Specialist (Co-operative) Programme in Computer Science and Physical Sciences
This programme requires twenty courses (four years) of study and two work terms of four months each. Each student must meet the agreement of the director and co-ordinator, a third work term may be negotiated. Students are eligible for their first work term after their first two years of study. Work placements are arranged by the Office of Co-operative Programmes but supervised by students in competition with all applicants for the position.

Performance on work terms will be evaluated by both employer and co-ordinator. Students must also submit a report for each work term.

To maintain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation a student must:

- maintain a cumulative grade point average of at least 2.50
- receive a satisfactory evaluation for work term performance and work term reports

be registered as a full-time student during study terms.

There are two courses of study offered within this co-operative programme. These will be outlined below as Option A: Computer Science and Physics and Option B: Computer Science and Statistics. Note that courses need not be taken in exactly the indicated order, but if an alternative ordering is adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided.

Option A: Computer Science and Physics

- 16 required courses

First Year
CSCE103, CSCE105, MAT202Y, MAT203Y, PHY101Y

Second Year
CSCE103, CSCE105, MAT202Y, MATH245, PHY101Y

Third Year
CSCE124, CSCE125, CSCE126, CSCE128, MATH245, MATH246

Fourth Year
CSCE124, CSCE125, CSCE126, CSCE128, MATH245, MATH246

- one full-course equivalent chosen from other C level Physical Sciences Division courses

* Students currently registered in year four of the programme should consult the (95-96) Calendar and the programme supervisor.

Option B: Computer Science and Statistics

- 14.5 required courses

First Year
CSCE105, CSCE107, CSCE109, PHY101Y

Second Year
CSCE124, CSCE125, CSCE126, MATH245, MATH246, STAC22F, STAC24T

Third Year
CSCE124, CSCE125, CSCE126, CSCE128, STAC22F, STAC24T, STAC24S, STAC25S, MATH245, MATH246

- one full-course equivalent chosen from other C level Physical Sciences Division courses

- one full-course equivalent chosen from other C level Statistics courses

- 300 and 400 level statistics courses
Co-operative Programme in Environmental Science

Director: H. Wittmann (277-7107)
Supervisor of Studies: T. Price (277-7327)

This programme is scheduled to begin in 1980, pending the approval of the Governing Council.

Co-operative Programme in Inernational Development Studies

Director: H. Wittmann (277-7107)
Co-ordinator: J. Maxwell (277-7123)
Supervisor of Studies: P. LeNo (277-7133)

The Co-operative Programme in International Development Studies is intended for students with an interest in international development, in geography, ecology and economics, and in the relations of Canada with developing countries. The programme combines academic study in the social and ecological sciences with practical work experience in a developing country, and typically requires up to five years to complete. An eight to twelve month work placement, usually with a Canadian or Third World development agency, is a central part of the programme. One of the distinctive features of the curriculum is the integration of political, economic and social development studies with courses in ecological and physical resource management. International Development Studies students learn through both studies and practical experience about:

- Development economics and social and political change in developing countries
- International relations
- Environmental sciences, especially the management of natural resources in developing countries
- The geography, culture, language and history of the area in which they are interested.

The programme prepares students for employment with Canadian and international governmental and non-governmental development agencies and projects. It also provides background for further studies in environmental geography, economics and political science.

Graduates receive a four-year B.A. or B.Sc. degree in International Development Studies.

Admission to the Programme

Applicants may be admitted directly from secondary school or may apply after two years of study at college or first year university. The timing of work placements for students who receive transfer credit will depend upon the particular university courses completed. When applying, applicants must indicate the special role for this Scarborough Campus programme on the Application For Admission To An Ontario University. Once the University of Toronto receives the application, candidates are sent an additional co-op application form to complete. This co-op application must be received by the Scarborough College Registrar's Office no later than April 15, 1983 to ensure an applicant's consideration. In order to allow sufficient time for processing, it is therefore important that the applicant apply to the University of Toronto by March 15, 1980.

Note: that enrolment in the programme is limited. Interviews are held normally in May for students who pass the initial screening. Admissions are granted on the basis of the applicant's academic performance, background in relevant subjects, language skills, experience or interest in international development studies and work, and a letter of reference from a high school teacher or university instructor.

Fee

Every student in a co-operative programme is required to pay additional fees as established by the University.

The Specialist (Co-operative) Programme in International Development Studies

This programme requires twenty courses (four years) of study and a work term of approximately six to twelve months duration. The work term will normally begin no sooner than the end of the third year and no later than the third month of the following year of the Programme.

Work placements are arranged by the Office of Co-operative Programme but must be by students in consultation with all applicants for the positions. Students may be responsible for financing part of the living expenses associated with placements. The location of the placements will vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicality and safety of development work. Students pay for work with Canadian or Third World development agencies, universities, or research institutions in a developing country.

The objective of the work placement is to provide students with experience and appreciation of the practical difficulties of development work and the flexibility required in the application of theoretical concepts. Before the work term students

ineligibility for work placements:
- have completed at least fifteen full-course equivalents including at least ten from the core programme (Section A) and advanced options (Section B), and two full courses from the regional and language options.
- After the work term students return to their studies and enroll in IISD00T (International Development Studies: Advanced Seminar) and such courses as are necessary to complete their degrees.
- To maintain standing in the programme and to produce specialist certification upon graduation, a student must
  - maintain a cumulative grade point average of 2.50
  - receive satisfactory evaluations for work placement performance and the research paper
  - be registered as a full-time student during study terms.
All students must complete:
- a common core programme (at least nine full-course equivalents) in resource management sciences and development economics (Section A, below)
- an advanced option (at least three full-course equivalents) in either political economy or ecological management (Section B, below)
- a regional language and culture option (Section C, below)
- IISD00Y, an advanced seminar-related to the work placement experience
- other elective courses (Section D, below)

NOTE: 1. IF YOU COMPLETE ALL COURSES MAY BE COUNTED ONLY ONCE IN SATISFYING WORK PLACEMENT AND PROGRAMME REQUIREMENTS
2. IT IS THE STUDENT'S INDIVIDUAL RESPONSIBILITY TO ENSURE THAT...
<table>
<thead>
<tr>
<th>Co-op Programme in International Development Studies</th>
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<tbody>
<tr>
<td>POL101Y Politics of the Third World*</td>
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</tr>
<tr>
<td>POL303FS Select Topics on Development Areas</td>
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</tr>
<tr>
<td>POL304FS Select Topics on Developing Areas</td>
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</tr>
<tr>
<td>SOCI175Y Social Change in the Third World</td>
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<tr>
<td>WSTC10Y Women and Development</td>
<td>WSTC10Y Women and Development</td>
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<tr>
<td>One-half course in Statistics</td>
<td>One-half course in Statistics</td>
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<tr>
<td>IL, Ecological Resource Management</td>
<td>IL, Ecological Resource Management</td>
</tr>
<tr>
<td>At least three full-course equivalents from</td>
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</tr>
<tr>
<td>ANT301Y The Ecological Perspective in Anthropology</td>
<td>ANT301Y The Ecological Perspective in Anthropology</td>
</tr>
<tr>
<td>ANT506F Medical Anthropology I: Illness and Healing in Cultural Perspective</td>
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</tr>
<tr>
<td>ANT523S Medical Anthropology II: Biological and Demographic Perspectives</td>
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</tr>
<tr>
<td>BIOC12Y Fundamentals of Ecology (Note: BIC100Y introductory Biology is a prerequisite. Students in this stream are strongly advised to take BIC100Y)</td>
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<td>BIOC154H Conservation Ecology</td>
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<td>BOT200Y Applied Botany</td>
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<tr>
<td>ESS304H Introduction to Geomorphology</td>
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<tr>
<td>ESS306H Field Camp I - Costa Rica</td>
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<tr>
<td>ESS303H Remote Sensing and Geographic Information</td>
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<td>ESS304H Photography and Diversity</td>
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<td>ESS301H Hydrology, Physical Processes and Modelling</td>
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<tr>
<td>ESS305I Hillside Geomorphology</td>
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<tr>
<td>ESS500I Climatic Change</td>
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<tr>
<td>ECO455H Forest Soils II</td>
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<tr>
<td>ORG207H Autoecological Interpretation</td>
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</tr>
<tr>
<td>ORG305H Biogeography</td>
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<tr>
<td>ORG310H Problems in Biogeography</td>
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<tr>
<td>ORG535H Environmental Change</td>
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<tr>
<td>ORG393H Methods of Environmental Impact Assessment</td>
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<tr>
<td>ORG416H Field Studies in Environmental Assessment</td>
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</tr>
<tr>
<td>ESG101Y Environmental &amp; Human Life I</td>
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<tr>
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</table>

STUDENTS INTERESTED IN OTHER REGIONS AND LANGUAGES SHOULD CONSULT THE SUPERVISOR OF STUDIES FOR A LIST OF COURSES AVAILABLE.

1. Latin America

a. At least one full-course equivalent from

| ANT305F | The Americas: An Anthropological Perspective |
| ANT707Y | Comparative Slavery |
| ANT743Y | Social Anthropology of Latin America and the Caribbean |
| HX302Y | Contemporary Literature in English, Africa and the West Indies |

b. At least one full-course equivalent from

| HX304H | Historical Geography of Latin America |
| HX304H | Contemporary Latin America |
| HX301Y | Latin America: The Colonial Period |
| HX302Y | Latin America: The National Period |
| HX304Y | Protest and Change in the Caribbean |
| HX304H | Topics in Modern Latin American Social History |
| HX304H | Latin American Culture and Literature |
| POL305Y | Politics and Society in Latin America |
| POL405Y | Topics in Latin American Politics and I |
| PR7260H | Aspects of Brazilian Culture |
| SOC323Y | Social Change in Latin America |

and

| SPA101Y | Introductory Spanish |
| SPA101Y | Intermediate Spanish |
| SPA102H | Language Practice I |
| SPA202H | Language Practice II |
| SPA204H | Introductory Portuguese |

**Languages Practice**
Students should also be aware of certain courses at other universities which may, with the approval of the Supervisor of Studies and the agreement of the host university, be taken for programme credit.

EESA01F Introduction to Environmental Science
An introductory course which integrates subject matter and concepts from diverse scientific disciplines to provide a coherent framework for analyses of environmental issues, environmental management and policy development. The course examines changes in historical and societal attitudes to the environment and the developments which have led to the current critical state of the environment. The processes of human impact on ecosystem functioning are examined and the environmental sustainability and societal patterns is critically analysed at local, regional and global contexts. Critical current issues such as the nature of evidence of environmental degradation and the responsibility of regulatory responsibility will be examined within the framework of specific case histories.

The course will involve two hours of lectures each week and two hours of laboratories or tutorials every two weeks. Local field trips may be involved.

Session: Winter Day

IBA01Y International Development Studies: Advanced Seminar

In addition to the courses listed, students should be aware of the following recommended courses:

MATH02Y Financial Accounting
ECOCS1F International Economics: Finance
ECON02F International Economics: Trade Theory
ECON02Y Economic Analysis
FOR46Y Wildlife Ecology and Management
GRT34Y Water Resource Management
GRT35Y Energy Environment Interaction
GRT46H Remote Sensing of Environment
JE60Y The Political Economy of International Development

EESA01F Introduction to Environmental Science

The course includes study of: basic climatic processes, climatic differentiation; the hydrologic cycle and its role in water resource management; principles of soil development and nutrient cycling; processes of plant colonization and community development. It will include case studies of natural resource management and mismanagement in developing countries. Students will be encouraged to develop specific regional interests in course materials.

Session: Winter Day

IDC01-C04H International Development Studies Co-op Work Placement Term
The IDS work placement is an integral part of the Co-op curriculum and is designed to provide students with practical hands-on experience of the development process in a Third World field setting. Students are placed as research assistants in Canadian or local development agencies or universities in a developing country for a 10-12 month period. Students are required to submit progress reports every 2 months and begin work on a major research project based on their work placement experience. To be eligible for placement, students must have completed 15 full-course equivalents including 12 IDS (10 core plus language and regional options) credits and a minimum 2.5 GPA. The IDS work placement normally begins after the third year of study and requires a minimum of 2 years of residence in the program. Course credit of 0.5 full-course equivalent is granted for each four month work period. Work term credits are in addition to the 20 full-course degree requirement and are granted on a Credit, No Credit system.

There are no additional course fees for work terms.

ISCOM01S Project Management

A study of the processes of the project management cycle with emphasis on situational analysis and identification of needs, project implementation, project monitoring and evaluation.

Project management will be considered in the context of the mission and, additional programme activities of international development agencies. Students will be familiarized with basic organizational development theory and the various approaches of Canadian Non-Governmental Organizations (NGOs) engaged in the delivery of development assistance. The integration of gender and development and environmental issues into the project process will be discussed.

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CIDA's policies and practices governing project administration as well as the project management model will also be examined. Students will carry out field visits to local development NGOs to analyze the project approach used by the agency. Practicing professionals will also be invited to talk about development issues and project management.

Exclusion: IDS010Y

Prerequisite: IDS011Y & IDS012Y and permission of the instructor.

Session: Winter Day

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<td>The History of Theatre III: From the French Revolution to the First World War</td>
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<tr>
<td>DRAC025S</td>
<td>The History of Theatre IV: Theatre in the Twentieth Century</td>
</tr>
<tr>
<td>ENGL11Y</td>
<td>The Art and Nature of Comedy</td>
</tr>
<tr>
<td>DRAC024FS</td>
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<tr>
<td>DRAC026FS</td>
<td>Women in the Theatre Science, Power, and Hell: The Story of Dr. Faustus on Stage</td>
</tr>
<tr>
<td>DRAC027H</td>
<td>The Theatre Seminar Shakespeare</td>
</tr>
<tr>
<td>ENGH10Y</td>
<td>English Drama to 1642</td>
</tr>
<tr>
<td>ENGC331Y</td>
<td>Drama Since 1900</td>
</tr>
<tr>
<td>ENGD10-5F85S</td>
<td>Studies in Major Writers</td>
</tr>
<tr>
<td>ENGD70-89FS</td>
<td>Selected Topics in the Drama</td>
</tr>
<tr>
<td>FREN13FS</td>
<td>The Classical Age: Comedy and Tragedy</td>
</tr>
<tr>
<td>FREN21FS</td>
<td>French Theatre in the 20th Century</td>
</tr>
<tr>
<td>FREN30FS</td>
<td>French Theatre in the 20th Century</td>
</tr>
<tr>
<td>HUMA10Y</td>
<td>The European World: An Introduction to History and Philosophy</td>
</tr>
<tr>
<td>HUMA30Y</td>
<td>Roman Mythology</td>
</tr>
<tr>
<td>HUMA70Y</td>
<td>Introduction to the Cinema</td>
</tr>
<tr>
<td>LIN140FS</td>
<td>Introduction to Language and Linguistics</td>
</tr>
<tr>
<td>MUS102Y</td>
<td>Introduction to Music</td>
</tr>
<tr>
<td>PHIL103FS</td>
<td>Philosophy and Art</td>
</tr>
<tr>
<td>PSY10Y</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>SOC10Y</td>
<td>Introduction to Sociology</td>
</tr>
</tbody>
</table>

**Notes:**
- Students should check the drama courses listed in the Calendar to determine which precise courses may be pertinent to Drama in a given year.
- Three full-course equivalents chosen from the following are required.
- **Course content varies from year to year.**
- **Students should check the drama courses listed in the Calendar to determine which precise courses may be pertinent to Drama in a given year.**

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### Drama: Major Programmes

**Supervisor:** M.Q. Schoenberg

A student must complete seven full-course equivalents in the area of Drama Literature and Theatre. The following four courses comprise the core of the programme:

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<td>The History of Theatre IV: Theatre in the Twentieth Century</td>
</tr>
<tr>
<td>ENGL11Y</td>
<td>The Art and Nature of Comedy</td>
</tr>
</tbody>
</table>

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### Drama: Minor Programmes

**Supervisor:** M.Q. Schoenberg

A student must complete seven full-course equivalents in the area of Drama Literature and Theatre. The following four courses comprise the core of the programme:

<table>
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</tbody>
</table>

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### Drama: General Programmes

**Supervisor:** M.Q. Schoenberg

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</tr>
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<td>ENGL11Y</td>
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</tbody>
</table>
DRA203F Women in the Theatre
Science, Power, and Hell: The Story of Dr. Faustus on Stage

DRA204F Theatre Seminar
ENGB10Y Shakespeare
ENMB267F Canadian Drama
ENGC35Y1 English Drama to 1642
ENGC35Y2 Drama Since 1940
ENGD10-SAT/SAT* Studies in Major Winters

ENGD10-356/156* Selected Topics
FRBS11FS The Classical Age: Comedy and Tragedy
FRBS29FS The Classical Age: Tragedy and Drama
FRBC30FS French Theatre in the 20th Century
HUMB30Y Introduction to the Cinema

** Students should check these courses for pre-requisites.
** Pre-requisites: ten full-course equivalents.
*** Course content varies from year to year.
Note: students should check the listings in the Calendar to determine what precise courses may be pertinent to Drama in a given year.

DRA101Y An Introduction to the Practical Elements of Theatre
Telephone ID #: 04020123
An introductory practical course, concentrating on the non-literary aspects of theatre.

In the workshops the student will study basic acting techniques (facial expressions, movement, voice interpretation, building a character), and will also be introduced to such technical skills as lighting, sound, stage construction, and properties. In addition, the student will be expected to participate in at least one production per term. These two-hour workshops per week, plus additional time as necessary for rehearsals and/or production meetings, etc. Careful preparation for each of the workshops is essential.

Exclusion: DRM200
Session: Winter Day
P. Spettadoro/M. G. Schonberg
Offered 1994/95

DRA102F The History of Theatre I: From Classical Antiquity to the Renaissance
Telephone ID #: 04022023
A study of the non-literary aspects of theatre from Classical Greek theatre to the Renaissance.

Areas of concentration will include classical Greek and Roman theatre, Western European Medieval dramatic traditions, and the theatre of the Renaissance, including the commedia dell'arte. Acquaintance with representative plays of the various periods will be required. Attention will also be paid to the socio-political milieu of the theatre. Lectures and tutorials. The text for the course will be History of the Theatre by Oscar Brook. Other readings will be announced.
Exclusion: (DRA203F), DRM264, DRM266
Session: Winter Day
M. G. Schonberg
Not offered 1994/95

DRA103F The History of Theatre II: From the Elizabethan Theatre to the French Revolution
Telephone ID #: 04022153
A study of theatre from 1580 to 1789. The course will concentrate on the history of Elizabethan and Jacobean staging practices, the theatre of the Banquo, Neoclassicism on the European continent, and the beginning of theatre in North America in the social and political context.

There will be lectures and tutorials. The principal text will be Osco Brook's, History of the Theatre. Other readings will be announced.
Exclusion: (DRA203F), DRM264, DRM266
Session: Winter Day
H. Oldendorf
Not offered 1994/95

DRA104F Theatre in Canada
Telephone ID #: 04022433
An examination of the development of professional theatre in Canada from 1945 to the present.

The course will concentrate on the development of the major theatrical festivals and professional theatre movement, the role of alternative theatre, and current theatrical trends. Consideration will be given to the work of specific actors, directors, and designers.

Reading materials will be drawn from several sources and selected dramatic texts will be used to illustrate theatrical developments.
Exclusion: (DRA200), DRM268
Session: Winter Day
P. Spettadoro/M. G. Schonberg
Not offered 1994/95

DRA105F Women in the Theatre
Telephone ID #: 04022553
The chronicle of theatre history from the perspective of women's experience, not only as practitioners, but also as spectators and subjects of theatre production.

Central to the course will be an inquiry into specific contributions made by women in all areas of theatre, but also an examination of the circumstances which led to the exclusion of women from mainstream theatre activity for many centuries, and of the factors which have often served to marginalize the tradition of female theatrical endeavor. Another focal concern of the course will be the impact of feminism on the theatre.
Session: Winter Day
P. Spettadoro
Not offered 1994/95

DRA107F Science, Power and Hell
Telephone ID #: 04023773
An examination of the myth of Dr. Faustus, scientist, philosopher, physician, and black magician.

The story, which originated in 1587, has parallel the development of modern science, as well as providing continuing fascination for playwrights and audiences until today.

We will examine the popular history of Dr. Johann Faustus (1587), Christopher Marlowe's play The Tragical History of Dr. Faustus (1584), the puppet plays, J.W. Goethe's play Faust (1806-1832), and other works, including Vasco de'Gama's play Temptation. Also examined will be some of the operatic works inspired by the Faust legend. The focus will be on the dramatic and literary transmutation of the legend of Faust, and on such questions as relations of faith in knowledge, knowledge to power, power to love. Throughout, close attention will be paid to the changing socio-political and intellectual circumstances, within which the various authors composed their versions, and of the factors which have shaped their works.
Exclusion: (HUM184S, LIT520F)
Prerequisite: (LIT411F, ENGL291F, ENGL292F) or one full course in the history of theatre or one full course in literature.
Session: Winter Day
H. Oldendorf
Not offered 1994/95

DRA201Y Intermediate Workshop in Theatre Performance
Telephone ID #: 04030163
This course is designed to enable advanced students to concentrate on problems related to the staging of plays in studio situations. A period of development and devising will be required to work with TV-video tape equipment. A minimum of thirty hours of studio and rehearsal, including time in rehearsal, will be required for advancement in acting skills, stage work, and work on productions.
Exclusion: DRM300
Prerequisites: DRA201

DRA207Y Individual Studies in French Theatre and Drama in Translation
Session: Winter Day
P. Spettadoro
Offered 1994/95

DRA207Y Individual Studies in French Theatre and Drama in Translation
Session: Winter Day
P. Spettadoro
Offered 1994/95

DRA210Y Individual Studies in German Theatre and Drama in Translation
Session: Winter Day
P. Spettadoro
Offered 1994/95

DRA210Y Individual Studies in German Theatre and Drama in Translation
Session: Winter Day
P. Spettadoro
Offered 1994/95

DRA210Y Individual Studies in Italian Theatre and Drama in Translation
Session: Winter Day
P. Spettadoro
Offered 1994/95

DRA210Y Individual Studies in Italian Theatre and Drama in Translation
Session: Winter Day
P. Spettadoro
Offered 1994/95

DRA210Y Individual Studies in Russian Theatre and Drama in Translation
Session: Winter Day
P. Spettadoro
Offered 1994/95

DRA210Y Individual Studies in Spanish Theatre and Drama in Translation
Session: Winter Day
P. Spettadoro
Offered 1994/95

DRA204F Theatre Seminar
Telephone ID #: 04032043
A course combining the experiences of either the Stratford or London Seminar with aspects of the history of theatre. Students will be expected to attend one of either the Stratford or London Seminar sessions. Before the last day of the previous spring term a brief statement about the project which will deal with a specific aspect of the history of the theatre must be submitted to the supervisor. By early October a more detailed statement must be submitted to the supervisor. A substantial paper on this topic will make up the final exam. This course will take on the financial responsibilities necessary for this project.
Prerequisites: DRA201, DRA220, DRA221
Session: Summer Day, Winter Day
Co-requisite: W.S. Watson
Offered 1994/95
Economics

DRAD01Y Advanced Workshop: Production and Distribution
Telephone ID #: 04060163
Detailed textual analysis, in-depth scene study and elements of directing for the stage.

The course will include work on theatrical technique in such areas as period style, make-up, improvisation stage fighting, etc. Students are expected to work on group projects, as we assign specific assignments according to their individual area of interest.
Exclusion: DRAM200
Prerequisites: DRAD01, DRAC01
Session: Winter Day
M.Q. Schonberg
Offered 1994/95

Performance Course
The following performance course is also available to students on a non-credit basis and is open to all faculty and staff members. Entrance for all participants is by audition. Credit students should preregister but will not be admitted to the course unless granted permission of the instructor during the first week of classes.

DRAD255Y Supervised Performance
The practical study of major theatrical productions.
Students will prepare for a public theatrical performance within the College.
Students taking the course for credit will be required to work on design projects, work as directors, or as production stage managers, and will submit written work at the conclusion of the course.
Prerequisites for credit students: DRAD01Y, DRAD03Y, and permission of instructor.
M.Q. Schonberg
Offered 1994/95

Economics

Assistant Chair: M. Kratzel Model

The Economics curriculum offers a wide variety of theoretical and applied courses.
The curriculum provides an excellent background for careers in business, government, and the professions. Many of the courses are not included exclusively for specialists in the discipline but can be of value to students with very diverse interests.

There are certain courses that are central to the curriculum: the introductory courses (EC020Y or EC020Y); the initial 100-level courses - Micro Theory (EC030Y or EC030Y); and Macroeconomic Theory and Policy (EC070Y or EC070Y); at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (EC050Y or EC050Y); the literature of Economics (EC010Y or EC010Y); Comparative Economic Systems (EC003Y); A student who wants to pursue Economics in depth should consider seriously acquiring a background in Accounting, Statistics, and Computer Science, most important of all, Mathematics (especially Calculus, Probability Theory, and Linear Algebra).

In the first year, specialists in Economics, Economics and Mathematics, and Quantitative Methods, Management and Economics, and

Management and Economic Theory should take EC020Y (the mathematical version of the introductory course).
Although students entering the Specialization in Economics, the Specialist in Management and Economics, and the Specialist in Management and Economic Theory will normally take MATA22Y in combination with EC020Y, those specialist will be planning careers in Economics are encouraged to replace MATA22Y with MATA22Y (Calculus) and further math courses.
Students who choose EC020Y (the non-mathematical version) may be able to enter these specialist programs once they have completed calculus.
Economics

Economics Majors and Specialist in Economics and History and in Economics and Political Science do not require calculus, so that students may take EC030Y in their first years of those specialties.
Many courses in the Social Sciences complement courses in Economics so that students are urged to read the Calendar and, with the help of the Supervisor, to plan their programmes of study carefully.

Limited Enrolment:
All economics programmes have limited enrolment. Students admitted to the programmes are guaranteed access to enough courses to complete their programme.
Remaining spaces in the courses are allocated on the basis of economics grades to non-programme students.

Admission to programme
1. Direct admission from secondary school
Those admitted directly to the Management and Economics stream must maintain a GPA of 2.0 or higher after completing 8 credits to remain in the Economics programme.

2. Other students
The Supervisor of Studies makes decisions on programme admission only twice per year, in May and August, based on programme requests received by the Registrar.

3. Non-programme students
However, non-programme students may still receive an economics major if they are able to complete the programme requirements.
Non-programme students are warned that they will have to register to B-level and C-level Economics courses only after programme students have registered for these courses and that some courses may thus be unavailable, or available only in the summer.

The Supervisor of Studies will not approve programme exceptions for non-programme students.

Specialist Programme in Economics

Supervisor: S. Horne

NOTE: Registration in this Programme is limited.
Students must have completed a minimum of four courses to be considered for this programme. Students with 4.5 or more credits will be considered on the basis of GPA including EC020Y/EC030Y and MATA22Y/MATA22Y. Students with 3.10 credits will be considered on the basis of GPA including
EC020Y/EC030Y and MATA22Y/MATA22Y and at least one of EC030Y and EC030Y.

The Specialist Programme in Economics requires a heavy concentration in the discipline. A Specialist Programme may not be advisable for all students.
Students who are interested in Economics and in other areas as well should refer to the Economics course descriptions, and to the Major Programme in Economics.

The Programme is designed for students considering employment in fields where a knowledge of economic theory and a modest ability to do research are important. The Programme is not a guarantee of employment but it does provide the basic quantitative and theoretical skills that are desirable for decision-making in business and government.

Students must complete at least ten full-course equivalents as specified below and as described in the fourteen full-course equivalents in Economics. The following specific courses must be included as part of the ten courses minimum: EC020Y or EC030Y MATA22Y or MATH141F or (MATA22Y and MATH141F or MATH141F and MATH141F).

At least one full-course or two half-courses from the following interdisciplinary humanities courses:

Specialist Programme in Economics and Electronics

Supervisor: S. Horton

NOTE: Registration in this Programme is limited.

Courses required are listed below. In addition, mention is made of courses in other disciplines that complement them.

Specialist Programme in Economics and Mathematics

Supervisor: S. Horton

NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y/ECOC02Y and ECOB07Y/ECOB07Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least twelve and a half full course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities.

The specific requirements are as follows:

- ECOA02Y or (MAT2A7Y) or (MATASSY)
- ECOA04Y
- ECOC06Y
- ECOC07Y
- MAT4A1Y or (MAT4B4Y) and MAT4B5Y
- or MAT4B7Y
- or MAT4B8Y
- or (MAT4B9Y) and (MAT4B10Y)
- or MAT9A6Y
- or STAB07Y
- or ECOA11Y
- or ECOA13Y
- or ECOA14Y
- MAT3C1Y
- or ECOA01Y

One course from among the Humanities options listed for the Specialist Programme.

Specialist Programme in Economics and Physics

Supervisor: S. Horton

NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y/ECOC02Y and ECOB07Y/ECOB07Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least twelve and a half full course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities.

The specific requirements are as follows:

- ECOA02Y or (MAT2A7Y) or (MATASSY)
- ECOA04Y
- ECOC06Y
- ECOC07Y
- MAT4A1Y or (MAT4B4Y) and MAT4B5Y
- or MAT4B7Y
- or MAT4B8Y
- or (MAT4B9Y) and (MAT4B10Y)
- or MAT9A6Y
- or STAB07Y
- or ECOA11Y
- or ECOA13Y
- or ECOA14Y
- MAT3C1Y
- or ECOA01Y

One course from among the Humanities options listed for the Specialist Programme.

Specialist Programme in Economics and Chemistry

Supervisor: S. Horton

NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y/ECOC02Y and ECOB07Y/ECOB07Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least twelve and a half full course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities.

The specific requirements are as follows:

- ECOA02Y or (MAT2A7Y) or (MATASSY)
- ECOA04Y
- ECOC06Y
- ECOC07Y
- MAT4A1Y or (MAT4B4Y) and MAT4B5Y
- or MAT4B7Y
- or MAT4B8Y
- or (MAT4B9Y) and (MAT4B10Y)
- or MAT9A6Y
- or STAB07Y
- or ECOA11Y
- or ECOA13Y
- or ECOA14Y
- MAT3C1Y
- or ECOA01Y

One course from among the Humanities options listed for the Specialist Programme.

Specialist Programme in Economics and Computer Science

Supervisor: S. Horton

NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y/ECOC02Y and ECOB07Y/ECOB07Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least twelve and a half full course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities.

The specific requirements are as follows:

- ECOA02Y or (MAT2A7Y) or (MATASSY)
- ECOA04Y
- ECOC06Y
- ECOC07Y
- MAT4A1Y or (MAT4B4Y) and MAT4B5Y
- or MAT4B7Y
- or MAT4B8Y
- or (MAT4B9Y) and (MAT4B10Y)
- or MAT9A6Y
- or STAB07Y
- or ECOA11Y
- or ECOA13Y
- or ECOA14Y
- MAT3C1Y
- or ECOA01Y

One course from among the Humanities options listed for the Specialist Programme.
ECOBO1F Quantitative Methods in Management
Telephone ID: 04321033
An introduction to statistics and regression analysis as used in economic analysis. The course will cover material similar to ECOBO5 but in somewhat less depth. Topics to be covered include: summary statistics, special probability distributions (normal, binomial), confidence intervals, hypothesis testing (parametric) and simple and multiple regression. There will be a number of computer assignments.
Limited enrolment: 80 per section.
Exclusions: ANTC35 (ANT344), ECOB11, ECOB12, ECOB50, GGB313; PSYB07; SOC306; STAB22; STAG47 and STAC67
Prerequisites: ECOA20 or ECOA30
Session: Winter Day

GGB312F Location and Spatial Development
Telephone ID: 06022733
An examination of the use of competitive location theory in the analysis of regional economic growth and decline. Topics include firman's rent and spatial equilibrium, trade flows and spatial price equilibrium, geographical market areas and spatial pricing policies, the location of a firm with mobile resources, industry location in equilibrium, trade theory and regional specialization, and the regional growth theories of Rostow and Mcdonald. Two hours of lectures and one tutorial hour per week.
Limited enrolment: 25 per section.
Exclusions: ECOA101, 201, 452
Prerequisites: ECOA20 or ECOA30
Session: Winter Day

ECOBO2Y Microeconomics Theory and Policy: A Mathematical Approach
Telephone ID: 04320863
Intermediate level development of the principles of microeconomics theory and policy. This course will cover the same topics as ECOB07Y, but will employ techniques involving calculus as to make the theory clearer to students.
Limited enrolment: 80 per section.
Exclusions: ECOB07Y, ECOB08
Prerequisites: ECOA20 or ECOA30
Session: Winter Day

ECOBO4Y Game Theory: A Mathematical Approach
Telephone ID: 04320463
Limited level development of the principles of microeconomics theory. This course will cover the same topics as ECOB04Y, but will employ techniques involving calculus as to make the theory clearer to students.
Limited enrolment: 80 per section.
Exclusions: ECOB04Y, ECOB05
Prerequisites: ECOA20 or ECOA30
Session: Winter Day
ECO0145 Advanced Macroeconomic Theory
Telephone ID: 04331453
Post-Keynesian developments in macroeconomic (including monetary) theory, empirical testing of Keynesian and post-Keynesian macroeconomic theories, and the use of macroeconometric models. Exclusion: ECO0325
Prerequisite: ECOB03 or ECOB04 or ECOB05 or ECOB06 or ECOB07 or ECOB08 or ECOB111. MATA28 or MATA29 or MATA26 (MATA27) or (MATA55)
Session: Winter Day
ECO025F History of Economics I: Adam Smith to Karl Marx
Telephone ID: 04332553
A study of the literature of classical Political Economy, especially the work of Adam Smith, Malthus, Ricardo, J.S. Mill, and Marx. Exclusion: ECO0322
Prerequisite: ECOB03 or ECOB04 or ECOB07 or ECOB08 or ECOB09 or ECOB10 or ECOB1608 (whichever is not used to satisfy the prerequisite).
Session: Winter Day
ECO0151 Economics of the Public Sector: Taxation
Telephone ID: 04333153
A course concerned with the revenue side of government finance. In particular, the course deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design. Limited enrolment: 60.
Exclusion: ECO0250
Prerequisite: ECOB03 or ECOB04
Session: Winter Evening TBA
ECO025G Economics of the Public Sector: Expenditures
Telephone ID: 04333233
A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course. Limited enrolment: 60.
Exclusion: ECO0250
Prerequisite: ECOB03 or ECOB04
Session: Winter Evening
ECO0175 Law and Economics
Telephone ID: 04333753
A study of laws and legal institutions from an economic perspective. Includes the development of a positive theory of the law suggesting that laws frequently evolve so as to maximize economic efficiency. The efficiency of various legal principles is examined. Topics covered are drawn from: externalities, property rights, environmental law, contracts, torts, product liability and consumer protection, criminal law, and procedure. Limited enrolment: 60.
Exclusion: ECO0200
Prerequisite: ECOB03 or ECOB04 (ECOBS0 or ECOB04 or ECOB05 or ECOB06 or ECOB09 or ECOB07 or ECOB137) will be accepted as a prerequisite in the first term of the winter session.
Session: Winter Evening
ECO0141F Industrial Organization
Telephone ID: 04334133
The economics of firm in the market environment. The aim is to study business behaviour and market performance as influenced by concentration, entry barriers, product differentiation and diversification. Limited enrolment: 60.
Exclusion: ECO0100
Prerequisite: ECOB03 or ECOB04
Session: Winter Evening
ECO0145F Monetary Economics
Telephone ID: 04334833
This course examines monetary theory and institutions focusing on the relationship among money, prices and economic activity. Topics include: money supply definition and relevance, a detailed examination of the demand for and supply of money, the term structure of interest rates, targets and instruments of monetary policy, the use of rules versus discretionary monetary policy. Limited enrolment: 60.
Exclusion: ECO0483
Prerequisite: ECOB03 or ECOB04
Session: Winter Day
ECO0145F Labour Economics I
Telephone ID: 04335133
Applications of the tools of microeconomics to various labour market issues. The topics covered will include: fertility and family formation; labour supply; labour demand; equilibrium in competitive and non-competitive markets; non-market approaches to the labour market; unemployment. Policy implications will include: maintenance programmes; minimum wages; wage and price control; and benefits. Limited enrolment: 60.
Exclusion: ECO0259, 339
Corequisite: ECOB09 or ECOB10 or ECOB1608 or permission of instructor.
Session: Winter Day
ECO0145F Labour Economics II
Telephone ID: 04335533
A continuation of ECO0145F. Topics covered will include: union; wage structures; sex and race discrimination; human capital theory; investments in education. Policy issues discussed will include: price equity; affirmative action; training initiatives; migration.
Limited enrolment: 60
Prerequisite: ECO0145F or permission of instructor. Recommended preparation: ECOB09 (ECOBS0 or ECOB07 or ECOB08 or permission of instructor).
Session: Winter Day
ECO0141Y Industrial Relations
Telephone ID: 04335833
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems; history, philosophy and structure of unions, labour law, and a collective bargaining simulation exercise. Limited enrolment: 60.
Exclusion: ECO0100
Prerequisite: Completion of at least ten full-course equivalents including ECOA01 or ECOA02
Session: Winter Evening
ECO0165 International Economics I: Finance
Telephone ID: 04336153
Macroeconomic theories of the balance of payments and the exchange rate in a small open economy. Recent theories of exchange-rate determination in a world of flexible exchange rates; the forward exchange market. The international monetary system is fixed or 'flexible' exchange rates; international capital movements, movements and their implications for monetary policy. Limited enrolment: 60.
Exclusion: ECO0328
Prerequisite: ECOB07 or ECOB08
Session: Winter Day
ECO0165 International Economics II: Trade Theory
Telephone ID: 04336253
An outline of the standard theories of international trade: analysis of the factors on which a country's trade with other countries is based; the empirical usefulness of these theories. Economic growth and international trade. The instruments and effects of trade policy (tariffs, quotas, non-tariff barriers), the theory of customary unions. Limited enrolment: 60.
Exclusion: ECO0328
Prerequisite: ECOB03 or ECOB04
Session: Winter Day
ECO0165F Economic Development
Telephone ID: 04336353
An introduction to the processes of growth and development in less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problems of population growth and unemployment, inequalities in income distribution, the role of agriculture and industry. Limited enrolment: 60.
Exclusion: ECO0324
Prerequisite: ECOB03 or ECOB04
Session: Winter Day
ECO0165F Development Policy
Telephone ID: 04336733
A consideration of how government policy can affect the pace and nature of development in Third World countries. Emphasis will be on the most important policies including those relating to population growth, international trade and investment, public finance, education, and technology. Limited enrolment: 60.
Exclusion: ECO0324
Prerequisite: ECO0056
Session: Winter Day
ECO0141F and ECO0125 Supervised Reading
For upper-level students whose interests are not covered in one of the other courses normally offered. Students are expected to design the course with the guidance of a staff member interested in the area of study being proposed. The courses will normally be made available only to students whose performance in Economics courses has been well above average. Students interested in supervised reading courses are urged to contact faculty members well in advance, as not all faculty will be available for these courses in any single term.
Prerequisite: Permission of instructor.
Session: Summer, Semester Evening, Winter Day, Winter Evening
ECO0959 Workshop in Economic Research
Telephone ID: 04345043
This course deals with students the techniques used by economists to define research problems and to do research. In the first term, the members of the staff will discuss their approaches to research. At the end of the term, students are expected to write a research paper and a faculty member with
whom to work. During the second term, students will research and write papers on their topic and present their ongoing work to other members of the class.

Prerequisites: ECO3004 and ECO3008 (for ECO3003 and ECO3007 and first year calculus). ECO3012. This course should be taken among the last 3 courses of a twenty-course degree.

Session: Winter Day

Courses Not Offered in 1990-94

ECOSBY North American Economic History
Exclusion: ECO221, 222, ECO3005
Prerequisite: ECOA303

ECOSBY History of Economics B: Origins of Modern Economic Theory
Exclusion: ECO352
Prerequisite: ECOB305 or ECOB306 or ECOB307 or ECOB308

ECOSBY Economic History 1914-1971
Exclusion: (ECOB33); ECO342
Prerequisite: ECOA303 and 3 B-level courses in Economics or History.

English

Discipline Representative: J. Kay (281-7157)

The study of English encompasses English, Canadian, and American literature as well as other literature written in the English language. The curriculum offers a broad range of courses designed to enable students to gain a comprehensive knowledge of a rich literary tradition. In addition, sequences of courses are available in historical periods, as specific genres, in national literatures, and in particular authors that allow students to pursue individual interests greater depth. In all courses, emphasis is placed on close responsive reading, critical thinking, and clarity of expression.

The A-level course introduces all students to the study of English at the university level. The course is designed both for students planning a Specialist or Major Programme in English and for students having a general interest in the subject.

English 1B1Y and 1B2Y are required for all students planning a Specialist or Major Programme in English.

Other English courses require no prerequisites and are therefore available both to beginning and to more advanced students. C-level courses, as their prerequisites indicate, are designed to build upon previous work in English and presuppose some background in critical thinking and some familiarity with the subject matter. D-level courses (which are equivalent to 400-level courses on the St. George Campus) provide opportunities for more sophisticated study and require some independent work on the part of the student. These courses are generally restricted in enrollment and may involve the presentation of seminars.

Other B-level courses require no prerequisites and are therefore available both to beginning and to more advanced students. C-level courses, as their prerequisites indicate, are designed to build upon previous work in English and presuppose some background in critical skills and some familiarity with the subject matter. D-level courses (which are equivalent to 400-level courses on the St. George Campus) provide opportunities for more sophisticated study and require some independent work on the part of the student. These courses are generally restricted in enrollment and may involve the presentation of seminars.

The Specialist programme in English offers an opportunity to develop skills in close responsive reading, critical thinking and clarity of expression. It encompasses the rich tradition of many literatures which use the English language as the medium of expression.

Specialist Programme in English

Supervisor: J. Kay (281-7157)

Ten full-course equivalents in English and two in another discipline in Humanities are required. They should be selected as follows:
1 ENGA11Y Reading Literature: The 20th Century
2 ENGB12Y Critical Thinking
3 ENGB13Y English Literature: Historical Survey
4 ENGB14Y English Literature: Ancient, Medieval, Renaissance
5 Five additional full-course equivalents in English at the A, B, or C-level, including a) two full-course equivalents in periods before 1800, one of which must be at the C-level (see list A) b) two full-course equivalents in periods after 1800, one of which must be at the C-level (see list B) c) six full-course equivalents in English at the D-level
7 Two full-course equivalents in other

Humanities disciplines.

The following are recommended.

CLAAGY Greek and Roman

CLAB11FY The Classical Element in English

CLACOFY Ancient Drama: Comedy

CLACOFY Ancient Drama: Tragedy

CLAEDFY Ancient Epic: The Oral Tradition

CLACL1FY Ancient Epic: The Literacy Tradition

HSB12Y British from the Eighteenth Century to the Present

HSIC1FY Tudor and Stuart England (Prerequisite: One B-level history course)

HUMA1Y Prologue

HUMA1FY Prologue II: East Asia and the Middle East

JNA1FY General Linguistics

PHIL11FY Philosophy and Art

PHIL12FY Philosophy of Literature

WSTA1Y Introduction to Women's Studies

Alternatively, students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

Major Programme in English

Supervisor: J. Kay (281-7157)

Seven full-course equivalents in English are required. They should be selected as follows:
1 ENGA11Y Reading Literature: The 20th Century
2 ENGB12Y Critical Thinking
3 ENGB13Y English Literature: Historical Survey
4 Three additional full-course equivalents in English at the A, B, or C-level, one of which must be at the C-level. These three courses must meet the following criteria: a) one full-course equivalent in periods before 1800 (see list A) b) one full-course equivalent in periods after 1800 (see list B) c) one full-course equivalent in English at the D-level

LIST A:

Pre-1800 courses:

ENGB10Y Shakespeare

ENGB11Y Chaucer

ENGB32Y Prose and Poetry of the English Renaissance 1500-1660

ENGB33Y English Drama to 1662

ENGB36Y English Literature of the Early 18th Century

LIST B:

Post-1800 courses:

ENGB10Y Canadian Literature in English: an Introduction

ENGB11Y American Literature: an Introduction

ENGB20Y Contemporary Literature in English: Africa and the West Indies

ENGB11FSY Contemporary Literature in English: Australia and India

ENGB29Y The Canadian Short Story

ENGB24Y Canadian Drama

ENGB34Y The Short Story

ENGB35Y Canadian Fiction in English

ENGB31Y Major American Authors

ENGB32Y The Romantics

ENGB33Y Victorian Poetry

ENGB4Y Fiction 1832-1900

ENGB5Y Modern Drama

ENGB51Y Twentieth Century Poetry

ENGB32Y Fiction 1900-1960

ENGB35Y British Fiction Since 1960

ENGB35Y American Fiction Since 1960

ENGB35Y Drama Since 1960

ENGBA11Y Reading Literature: The 20th Century

Telephone ID #: 05111163

An introduction to literary and cultural concerns in the twentieth century through a study of selected works written in English, from the beginning of the century to the present day.

What is involved in the activities of reading and writing? What is the relationship between what we read and how we make sense of ourselves? How does literature in the twentieth-century challenge and shape our notions of truth and perceptions of reality? These are some of the questions that will be explored. The course will include works by men and women of different cultural backgrounds and nationalities.

All sections of the course will require a selection of written assignments and a final examination.

Note: This course is designed to accommodate any student with an interest in reading at the university level. It is also the prerequisite to IGOTY, the required introductory course for majors and specialists in the English Programme.

ENG301Y Critical Thinking and Writing
Telecourse ID #: 05520163
Through the reading of poetry, fiction, and essays, students will learn how to discuss works of literature and how to present their views accurately and cogently in writing. This course is a required course for all Major and Specialist in English.
In the first term there will be a strong emphasis on vocabulary development and grammatical accuracy through various written exercises. The development of aesthetic responses to literary texts will be an important aim of this course.
The art of rewriting will be encouraged to develop competence, and students who have not maintained a grade of C in the first term will be counselled to drop the course.
The second term will focus on a major work of literature. In addition to expanding the writing skills learned in the first term, we will explore a variety of critical approaches to the selected text.
Exclusion: ENG301Y
Prerequisite: ENG101Y
Session: Winter Day
Course Coordinator: W.J. Howard
Offered 1994/95 and 1995/96

ENG307Y English Literature: Historical Survey
Telecourse ID #: 05520163
A survey of English literature from the Middle Ages to the twentieth century, in the context of relevant intellectual, aesthetic, social, and political developments. Normally taken in conjunction with ENG201Y.
This course provides a general introduction to the major works of English literary history -- the Medieval, Renaissance, Restoration, Eighteenth-Century, Romantic, Victorian, and Modern periods. Reading will be extensive, including brief selections from approximately fifty writers. The primary text is The Norton Anthology of English Literature (Fifth Edition), Vol. 1 and 2; further texts will be announced.
Note: This is exclusively a lecture and examination course. Students are advised to complete this course with English 101Y in order to include group discussion, detailed textual study, and practice in essay writing in their study of English.
Exclusion: ENG104G
Session: Winter Day
A. Patonick, M. Cuddy-Keele
Offered 1994/95 and 1995/96

ENG307Y Canadian Literature in English: An Introduction
Telecourse ID #: 05520763
A study of a wide range of Canadian literature, including works by fiction writers, poets, playwrights, and critics, such as Callaghan, MacLean, Laurence, Cron, Davis, Lampman, D.C. Scott, Klein, Post, Wemyss, Avison, Woodrow, and Fryer.
This study of Canadian literature in English will be historical, following the development of writing in Canada from early times to the present, through close critical reading of individual works will be emphasized.
M. Goddell
Session: Winter Day

ENG308Y Shakespeare
Telecourse ID #: 05521163
A study of at least eleven plays by Shakespeare, both as unique works of art and in the larger context of his work as a Renaissance dramatist. A list of texts will be available in 1995/96.
Exclusion: ENG2220
Session: Winter Day
A. Patonick
Offered 1994/95

ENG311Y Varieties of Drama
Telecourse ID #: 05521163
A study of drama from ancient Greece to the present day.
The course introduces students to a wide range of drama through the study of at least twelve plays, including, Sophocles, Oedipus the King; Aristophanes, Lysistrata; and Euripides, Electra. Other plays will be selected from the work of modern dramatists, including Beckett, O'Neill, Pinter, Shaw, and at least one Canadian writer.
The course will encourage discussion of genres such as comedy and tragedy, methods of acting, expressionism and realism, and the theatrical production process.
Exclusion: DRM1000, ENG2220
Session: Winter Day
A. Thomas
Not offered 1994/95
Offered 1995/96

ENG314Y Fiction
Telecourse ID #: 05521163
A study of fictional strategies and techniques, drawing on a wide range of examples from the major periods of narrative to the present day.
Session: Winter Day
J. Matsu
ENG547 Victorian Poetry
The poetry of Tennyson, Browning, Arnold, and selections from other poets, such as Elizabeth Barrett Browning, D.G. Rossetti, Christina Rossetti, Meredith, Swinburne, Hardy.

The Victorian period was a time when poetry was broadly accessible and widely read, and poets were particularly concerned about their public role in society. This course concentrates upon poems of the mid-Victorian period and the poets’ responses to such crucial issues as the impact of evolutionary theory and the changing role of women. A selection of poems from the later period reveals increasingly darker contrasts, leading to the unversed and sensual poetry of Aestheticism and Decadence.

The course focuses both on poetic style and on nineteenth-century thought. Texts will include: The Norton Anthology of English Literature, Fifth Edition, Vol. 2: Tennyson, in Memoriam (Norton); Elizabeth Barrett Browning, Aurora Leigh (The Women’s Press). Exclusion: (ENG590)

Prerequisites: (ENG410), (ENG402)
ENG54801 Fiction 1900-1960
A study of at least twelve works, chosen from novels, novellas, and collections of short stories.

The early twentieth century was a period of extraordinary creativity and innovation in art, music, and the written word. We will explore the conceptions of the Victorian novel to define the new reality of the "modern" world. The focus of this course will be the development of new kinds of narrative, in part to study the nature of art-making, but in part also to consider the philosophical, psychological, and indeed political implications of the way we tell stories. Works studied will include: James, The Spoils of Poynton; Conrad, Lord Jim; Joyce, A Portrait of the Artist as a Young Man; Dorothy Richardson, Pointed Roof; Maugham, Selected Stories; Woolf, To the Lighthouse; Forster, A Passage to India, Faulkner, Absalom, Absalom! Students are urged to use editions listed in the bookstore, and to do some reading in advance.

Prerequisites: (ENG401), (ENG402), (ENG410), (ENG414)
Session: Winter Day M. Cuddy-Kennedy

ENG54853 British Fiction Since 1960
Telephone ID: 05553353
Representative works by major British fiction writers of the past quarter century, short story collections will be studied, including Edna O’Brien, The Love Object, Forster, The French Lieutenant’s Woman; Drabble, The Waterfall; Barnes, Flaubert’s Parrot.

Exclusion: (ENG590)
Prerequisites: (ENG401), (ENG402), (ENG410), (ENG414)
Session: Winter Day A. Thomas

ENG5494 American Fiction Since 1960
Telephone ID: 05354453
A study of the range and variety of recent fiction writing in the United States.

Approximately eight novels or short story collections by writers such as Barth, Barthelme, Bellow, Cheever, Cooper, D’Heur, Dessen, Dillon, Oates, Gardner, Hawken, Mailer, Nabokov, Oates, Percy, Pynchon, Updike, Roth, Thourou, Welty, Woytse.

Exclusion: (ENG586)
Prerequisites: (ENG401), (ENG402), (ENG410), (ENG414)
Session: Winter Day R. Brown

ENG54901 English Literary Criticism
Telephone ID: 05540163
A study of the central issues of literary theory and criticism, their importance in English literary history, and their relationship to Rennett’s theme.

Approximately eight works (novels, movements in literary theory) How have the questions of style and form changed over time? The course aims at discussing the assumptions and limits of the literary writing and writing that are reflected in any critical position. Readings will be selected to acquaint students with both current critical debates and the history of theory and criticism.

Exclusion: (ENG595), (ENG520)
Prerequisites: (ENG401), (ENG402), (ENG410), (ENG414), and two further full-course equivalents in English.
Session: Winter Day J. Matas

ENG54955 Problems in Later Shakespeare
Telephone ID: 05544653
Terminology, editorial, as well as aesthetic and dramatic problems in the later works of Shakespeare.

As with other texts, we will see Pericles, Cymbeline, A Winter’s Tale and The Tempest. The new/second edition of each is preferred. Each student will develop a topic during the term which will be presented in a written paper at the end of the term. Limited enrolment: 20
Exclusion: (ENG560)
Prerequisites: (ENG401), (ENG402), (ENG410), (ENG414), and two further full-course equivalents in English; or ENG590; or ENG593 (ENG512)
Session: Winter Day A. J. G. Patanall

ENG54959 George Bernard Shaw
Telephone ID: 05549593
A study of the range of Shaw’s dramatic works.

Emphasis will be on the comedies. Plays to be read include Shaw’s Arms and the Man, Heartbreak House and Man and Superman. Some plays by contemporary writers who share the Shawean comic sensibility will also be read, including at least one by Tom Stoppard. Assignments will include a seminar report.

Limited enrolment: 20
Prerequisites: (ENG590), (ENG593), (ENG595), and two further full-course equivalents in English; or ENG512; or ENG593
Session: Winter Day K. Thiel

ENG54960 Samuel Beckett
Telephone ID: 05549593
A study of Beckett’s career as innovative playwright and experimental writer of prose fiction.

The course will explore Beckett’s role as one of the creators of “Theatre of the Absurd” and look at some of his challenging experiments in prose fiction. Texts will include Waiting for Godot; Endgame; The Collected Shorter Plays of Samuel Beckett; some short fiction and a novel.

Limited enrolment: 20
Prerequisites: (ENG590), (ENG593), (ENG595), and two further full-course equivalents in English; or ENG595; or ENG593
Session: Winter Day K. Thiel

ENG54975 The Twentieth-Century Novelists
Telephone ID: 05544653
A study of the medium-length fiction of the twentieth century, with emphasis on the intentions and critical and close reading of texts by British, American, and Canadian authors. Readings will include novels by Coetzee, Waugh, Faulkner, Katherine Anne Porter, Malcolm Lowry and Ivan Gollancz. Main text: The Norton Introduction to the Short Novel (2nd, ed); On Middle Ground (Mouton). Limited enrolment: 20
Prerequisites: (ENG401), (ENG402), (ENG410), (ENG414), and two further full-course equivalents in English; or any two
Course Not Offered in 1995/96

ENGR26Y American Literature
ENGR267S Canadian Short Story
ENGR267Y Canadian Drama
ENGR267Y Literature and Imperialism*
ENGR267Y The Short Story
ENGR267Y Creative Writing
ENGR267Y Exclusion: HUMIB40 (LITIBF)
ENGR27Y Canadian Fiction in English
ENGR27Y Exclusion: ENGR227
ENGR27Y One full-course equivalent in English
ENGR32Y Chinese
ENGR32Y Exclusion: ENGR201, ENGR210, ENGR262, ENGR270, ENGR280, ENGR281
ENGR32Y Exclusion: ENGR210
ENGR32Y English Literature of the Early Elizabethan Century
ENGR32Y Exclusion: ENGR227
ENGR32Y English Literature of the Later Elizabethan Century
ENGR32Y Exclusion: ENGR227
ENGR32Y Exclusion: ENGR227
ENGR32Y Exclusion: ENGR227
ENGR32Y Exclusion: ENGR227

Environmental Science

Discipline Representative: K. Howard (287-7233)
The study of the environment and its evolution is of extreme importance to our continued habitation of the planet earth. To understand this problem requires significant background spanning many scientific areas of study. Problems such as diminishing and polluted water supplies, acid rain, lake and coastal erosion, disposal of household, industrial and radioactive waste are related to an irrefutable understanding of our surface geology and geological processes. These sources of pollution act both on the human population and all other living species on the earth, and thus require careful study of both the biology of the particular contaminant and the effect on all ecological systems feeling either a primary or secondary impact. Thus the Environmental Science Discipline involves Earth Sciences, Climatology, and Environmental Biology. In addition, close connections are maintained with other relevant disciplines, such as Chemistry.

Two Specialist Programmes are offered in addition to a Major Programme. The Environmental Science Programme provides a balanced emphasis on both the earth and biological science aspects of environmental science. This reflects the strong interdisciplinary requirements of an integrated approach to the study of the environment where not only must there be a strong understanding of the causes or sources of the deterioration of the earth's system, but a strong understanding of the actual modes of impact on the biological world, both at the molecular and cell levels and at the ecological system level.

The Environmental Earth Science Programme provides a stronger emphasis on the study of earth materials at or near the surface, and the processes—chemical, sedimentary, hydrogeological—that shape and determine the environment as we experience it today. While this programme emphasizes the earth science aspects of the problem, it maintains a strongly interdisciplinary nature.

A Programme in Environmental Chemistry is also offered for those students interested in the mechanisms that lead from our modern ways of life to the introduction of pollutants into the atmosphere and water systems of the earth.

Please refer to the Physical Sciences section of the Calendar for the following programmes:
- Specialist Programme in Environmental Science
- Specialist Programme in Environmental Earth Science
- Major Programme in Environmental Science

Note: Commencing September 1993, new Undergraduate Geography programmes and courses have been approved to form the new Environmental Science Discipline and new Environmental Science Programmes.

EEAS10F Introduction to Environmental Science

Telephone: 363.10133

An introductory course which integrates subject matter and concepts from diverse
scientific disciplines to provide a coherent framework for analysis of real-world issues, environmental management and policy development. The course examines scientific and societal attitudes to the environment and the developments which have led to the current critical state of the environment. The processes of human impact on ecosystem functioning are examined and the environmental sustainability of societal patterns is critically analysed in a local, regional and global context. Critical current issues such as the nature of evidence of environmental degradation and the compatibility of scientific method and regulatory responsibility will be examined within the framework of specific case histories.

Two-hour lecture, two-hour laboratory or tutorials: local field trips.

Session: Winter Day

R. Bryson.

EES2A05 Introduction to Physical Geography

Telephone: 36310125

A consideration of the flow of both energy and mass through natural systems is used to explain system characteristics, from the shape of the landscape to the generation of weather. The physical and biological processes forming natural systems are considered at many different scales, from soil erosion at the field level to plate tectonics. The impact of human activity on system processes is also surveyed, with particular reference to vegetation change, soil degradation and atmospheric pollution.

Two hours of lecture per week and two hours of laboratory once every two weeks.

Editions: GGRA05, GGRA010

T. Price.

EES2A06 Planet Earth: An Introduction to Earth Science

Telephone: 36310133

The course deals with the composition, structure and origin of the Earth and the physical processes that operate on and in it. The chronological succession of physical and biological events on Earth are revealed in the rock record.

Editions: GGRA05, GGRA010, GGRA015

Prerequisite: None, but one GAC Mathematics and GAC Chemistry or Biology or Physics are recommended.

Session: Winter Day

EES2A07 Life on Earth: Introductory Biology for Environmental Scientists

Telephone: 36310453

This course will introduce students to the fundamental principles of biology from an environmental perspective. Lecture topics will include cell structure and function, genetics and development, plant form and function, animal form and function, evolution and diversity, and ecology. Examples used to illustrate these concepts will focus on the manner by which these biological fundamentals (physiological, genetic, etc.) can be influenced by environmental factors.

Two 1-hour lectures, three 1-hour laboratory or tutorial.

Exclusion: Students with prior credit for EES2A01 or EES2A07.

Session: Winter Day

EES2A05 Geological Hazards

Telephone: 36310551

This course will focus on the geological and geomorphological processes that are capable of producing hazards affecting the environment, including such topics as landslides, erosion, earthquakes, volcanic eruptions and analogs, floods, glaciation and periglacial and present-day climate change, subsidence, and the disposal of toxic wastes. It will be of interest to a wide range of students in the fields of life, social, and physical sciences, and offers an opportunity for the non-specialist to understand headlining geological events of topical interest. No prior knowledge of the Earth Sciences is required.

Session: Winter Evening

R. Eyles.

EES2A05 Principles of Stratigraphy and Sedimentology

Telephone: 36320153

Sediments and sedimentary rocks provide a record of environmental change over the last 5 million years. This course provides an introduction to the principles of the study of the deposition, transformation, and stratigraphic classification of sediments. Sedimentary rocks are described and interpreted.

Editions: GGRA05, GGRA010

Prerequisite: EES2A05 or GGRA010.

Session: Winter Day

EES2A05 Principles of Geomorphology

Telephone: 36320233

The course will focus on the physical and chemical processes responsible for the development of relief at the surface of the Earth and the mechanisms of transport and deposition of mass by rivers, wind, glaciers, wave action, gravitational stresses, etc., which control the evolution of surface morphology. Field exercises and laboratory exercises will allow students to apply theory to natural systems and to understand the dynamics of variously modified geomorphic systems.

Editions: GGRA05, GGRA010

Session: Winter Day

B. Greenwood.

EES2E05 Principles of Climatology

Telephone: 36320353

A scientific analysis of Earth's climate through study of the governing physical and dynamical controls. The course will focus on the basic elements of Earth's atmosphere. Major topics include: atmospheric composition, temperature and pressure, heat balance and energy budgets, atmospheric structure and flow, the development and movement of clouds, and the major circulation patterns. In the second term, applications of the theory to weather forecasting and climate change will be considered.

Editions: GGRA05, GGRA010

Session: Winter Day

T. Price.

EES2E05 Field Camp I

Telephone: 36320553

This course is intended to familiarize the student with fieldwork in the Earth Sciences. The camp will be held in alternate years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: Any level course in Earth Sciences or EES2E07.

Session: Winter Day

R. Bryson.

EES2E05 Field Camp II

Telephone: 36320733

The course will be held in alternative years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: EES2A01 or EES2A07.

Session: Winter Day

Editions: GGRA05, GGRA010

T. Price.

EES2E05 Field Camp III

Telephone: 36320933

The course will be held in alternative years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: EES2A01 or EES2A07.

Session: Winter Day

Editions: GGRA05, GGRA010

T. Price.

EES2E05 Field Camp IV

Telephone: 36321133

The course will be held in alternative years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: EES2A01 or EES2A07.

Session: Winter Day

Editions: GGRA05, GGRA010

T. Price.

EES2E05 Field Camp V

Telephone: 36321333

The course will be held in alternative years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: EES2A01 or EES2A07.

Session: Winter Day

Editions: GGRA05, GGRA010

T. Price.

EES2E05 Field Camp VI

Telephone: 36321533

The course will be held in alternative years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: EES2A01 or EES2A07.

Session: Winter Day

Editions: GGRA05, GGRA010

T. Price.

EES2E05 Field Camp VII

Telephone: 36321733

The course will be held in alternative years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: EES2A01 or EES2A07.

Session: Winter Day

Editions: GGRA05, GGRA010

T. Price.

EES2E05 Field Camp VIII

Telephone: 36321933

The course will be held in alternative years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: EES2A01 or EES2A07.

Session: Winter Day

Editions: GGRA05, GGRA010

T. Price.

EES2E05 Field Camp IX

Telephone: 36322133

The course will be held in alternative years in Costa Rica (May) or the Rocky Mountains (September).

Editions: GGRA05, GGRA010

Staff: Winter Day

Editions: GGRA05, GGRA010

Prerequisite: EES2A01 or EES2A07.

Session: Winter Day

Editions: GGRA05, GGRA010

T. Price.
Environmental Science

Introduction to petrography

Prerequisite: EES5607
Session: Winter Day

EES201F Environmental Economics and Law
Telephone ID: 3630313
This course deals with the application of economic analysis to problems of environmental change and natural resource use. It examines market processes in situations where externalities in production and consumption are present and the application of benefit-cost analysis to environmental problems. The course also provides a brief introduction to issues in environmental law and to the statutory and regulatory framework for environmental management in Ontario.
Prerequisite: Permission of Instructor
Session: Winter Day

EES205S Remote Sensing & Geographic Information Systems
Telephone ID: 3630355
A Geographic Information System or "GIS" is a computer-based system including hardware and software for the input, storage, retrieval, manipulation and analysis of remote sensing information and other data. In the environmental sciences this type of information might include the concentration of contaminants, the number of species of fish, and the water temperature at several sample points within a given lake. A GIS as such allows such "geo-referenced" data to be visualized as a series of digitally-encoded map layers which can be integrated, cross-referenced, and queried to reveal relationships and trends within the data. The purpose of this course is to illustrate the basic principles of GIS, to provide hands-on experience with GIS software/hardware, and to demonstrate some specific applications of the technology in the environmental sciences using satellite imagery and air photo interpretation.

The first half of the course will provide an introduction to the fundamentals of GIS and remote sensing and will include: digital spatial data types, data capture, data input and output formats, georeferencing and coordinate systems, topography, spatial analysis techniques, data output and map production. The latter half of the course will explore the applications of GIS technology as a tool in the management of environmental problems. Several case studies and databases will be examined which demonstrate GIS applications in both regional (e.g. waste management in the Metro Toronto region, acid mine drainage) and local (e.g. bikeway planning and management) contexts.

Environmental Science

Coastal Geomorphology

Telephone ID: 3630345
This course will cover the basic principles and practices associated with the patterns of life on Earth. Coverage will begin with consideration of the physical limitations of life, diversity, the major biomes (marine and terrestrial) and the concepts of abundance and rarity. Subsequent topics will include the basics of phylogenetic and evolutionary systematics, continental drift and tectonics, the effects of scale on process and pattern, the concepts of centers of dispersal and endemism, competition between the biotas of continents and islands, and the major patterns of life across the oceans. The fundamental influence of climate will be drawn through consideration of global temperature change, with emphasis on the role of human activities during the Quaternary - a period of especially rapid change. Important biological processes will be examined, including adaptation, speciation, coloration and extinction, competition and cooperation. The course will conclude with consideration of the unique role of mankind in shaping modern biogeography and will cover topics such as megafaunal extinctions, human agriculture, fragmentation and conservation.

Two hour lecture; one hour laboratory per week
Prerequisite: EES504 or BIA503Y
Session: Winter Day

Quaternary Environments

Telephone ID: 3630363
This course will culminate with a period of unprecedented and well-documented change characterized most visibly by fluctuating climate and sea level. This course is designed to familiarize students with the worldwide effects of environmental change during the last two million years, leading to the development of the modern global flora and fauna. Topics will include: the Tertiary Legacy: Quaternary climate changes, e.g. glaciation, sea level changes and their effects on climate, topography, and biogeomes. The fundamental influence of climate will be drawn through consideration of global temperature change, with emphasis on the role of human activities during the Quaternary - a period of especially rapid change. Important biological processes will be examined, including adaptation, speciation, coloration and extinction, competition and cooperation. The course will conclude with consideration of the unique role of mankind in shaping modern biogeography and will cover topics such as megafaunal extinctions, human agriculture, fragmentation and conservation.

Two hour lecture; one hour laboratory per week
Prerequisite: EES504 or BIA503Y
Session: Winter Day

Paleoenvironmental Determination

Telephone ID: 3630343
This course will introduce students to the diverse and increasingly important methods used in the description of past environments and the predictions of paleoenvironmental determination. The strength of multidisciplinary approaches will be emphasized. Topics covered will include: purposes of paleoenvironmental determination; relevance to climatology, environmental impact assessment, biogeography; etc.; history and development of paleoenvironmental research; sources of information. - e.g.
EESDD104 Theoretical Geomorphology

EESDD105 Himalaya Geomorphology

EESDD106 Climatic Change

EESDD107 Field Camp II

EESDD108 Urban Geology of Metropolitan Toronto
Fine Art History

Because art is perceived through the eyes and other senses as well as through the intellect, art history courses commonly present their subjects via slides, films, videos, and direct viewing of art works in galleries and museums and in the cities. Although the course structure reflects a traditional division into time periods, instructors often use new methodologies to explain the work within these periods. Art history courses at the A-level and B-level are normally open to all students. In addition to the practice in critical writing and research provided by all humanities courses, these courses offer basic information about art and architecture in all phases of Western culture, and a chance to improve one's perceptual and aesthetic awareness. Prerequisite for all C-level courses in Art History: one full-course equivalent at the B-level or permission of the instructor.

Major Program in Fine Art History
Students must complete seven full-course equivalents as follows:

1. FARA016P, FARA115; FARA120P, FARA125; FARA132
2. Four B-level course equivalents in art history, to be chosen in consultation with the students' advisors
3. Two full-course equivalents in art history at the C-level (or at the 300/400 level on the St. George campus)

Specialist Programme in Fine Art History

Supervisor: R. Siebeloff (287-7109)

Students must complete twelve full-course equivalents as follows:

1. FARA105P, FARA115, FARA120P
2. Four B-level course equivalents in art history, to be chosen in consultation with the students' advisors
3. Two full-course equivalents in art history at the C-level (or at the 300/400 level on the St. George campus)

FARA120P Renaissance and Baroque Art


Session: Winter Evening
T.B.A.
Offered 1994/95

FARA135 Art after 1750

A study of European and North American painting, sculpture, and architecture from the period of the American and French Revolutions to the present. By a careful analysis of key works of art, the course will present a view of artistic conditions in major centers throughout the Western world. Text: Frederick Hartt, Art: A History of Painting, Sculpture, Architecture, Vol. II, 1989 edition.

Session: Winter Evening
L. Corney
Offered 1994/95

FARH0040 Artistic Greek Sculpture (480-440 B.C.)

Telephone: 06220833
The beginnings of Western sculpture. During this period of experimentation, artists began to address problems of the naturalistic depiction of the human figure, both in terms of action and drawing. The early forms of abstraction were largely confined to the classical period, when anatomical proportions and anatomy were developed in a form appropriate for the Hellenistic period. This resulted in a vigorous, innovative, and attractive style.

Session: Winter Day
Not offered 1994/95

FARH0050 Classical Greek Sculpture (400-200 B.C.)

Telephone: 06220555
The high point of Greek sculpture. Frequent archaeological discoveries keep this a living and growing field. New sculptures (like the stunning bronze recently found off the coast of Italy) are examined alongside older and better known classical pieces (such as the}
famous sculptures of the Perbenico), to illustrate the sophisticated ways in which Greek sculptors dealt with concepts of realistic human representation. Scenes derived form myth and legend in these works became vehicles for religious and political expression. The Greek obsession with the human being and the belief in reason, which replaced superstition and formed the basis of Western humanism, are vividly reflected here. Exclusion FAH113
Prerequisite: FARA104 is highly recommended.
M. Shaw
Session: Winter Day
Not offered 1994/95

FABR105 Caravaggio and Romanesque Art and Architecture
Telephone ID #: 06221053
A survey of the art and architecture of Europe from 800 to 1150, considered in light of the varied artistic developments of the contemporary Mediterranean world. The course will consider the major artistic and architectural monuments of Europe from the Caravaggesque renaissance to the renaissance of the twelfth century. Works will be considered in their geographical context, and in relation to the art and architecture of the later Roman Empire, Byzantium and Armenia, Islam, and so the art of the invasion period. The importance of monasticism and pilgrimage will also be discussed. Text: E. Kitzinger, Early Medieval Art: G. Zancorci, Romanesque Art: J.K. Comen, Caravaggio and Romanesque Architecture. Exclusion: FASH111, 322
Prerequisite: FARA115 highly recommended.
M. Govers
Session: Winter Day
Not offered 1994/95

FABR116 Michelangelos
Telephone ID #: 06221933
A survey of his activity in architecture, sculpture, and painting. Study will focus on large decorative works and projects like the Sistine ceiling, the tomb of Julius II and the Medici Chapel. The course will emphasize special aspects of Michelangelos' ideas, above all the relationship of the artist with neoplatonism and with the religious trends of his time. Some time will also be spent on Michelangelos' theory of art and on his poetry. Texts: H. Hildrich, Michelangelos, New York, 1974. Exclusion: FASH227

G. Scavizzi
Session: Winter Day
Not offered 1994/95

FABR245 Baroque Painting in the Netherlands
Telephone ID #: 06222043
A study of painting and drawing in the Dutch Republic in the so-called Golden Age from 1600 to 1675. The subject includes portraiture, landscape and still life. Work done in these categories forms the basis of a great deal of later Western painting. The approach to the material will be problem oriented, rather than chronological. FABR111 is a continuation of this course. Text: J. Rosenberg, Silver and Tint Kline, Dutch Art and Architecture 1650-1800, paperback edition in the Pelican History of Art series. Exclusions: FASH108
Session: Winter Day
R. Steinbock
Not offered 1994/95

FABR2717 Research to Romanticism
Telephone ID #: 06223733
Painting, sculpture and architecture in France between 1750 and 1830. Several major artistic movements of the revolutionary period will be studied in their relation to each other and to French history. Special emphasis will be placed on Paris, where most of the important artists worked, including Boucher, David, Ingres and Delacroix. Texts: Michael Leavett, Rococo to Revolution, New York: Praeger, 1969. Exclusion: FASH112
Session: Winter Evening
R. Steinbock
Not offered 1994/95

FABR1455 Impressionism
Telephone ID #: 06224333
A study of Impressionism as a turning point in Western art. The course will explore nineteenth century landscape painting as a main source of realism. The Impressionist group, in particular Manet, Pissaro, Renoir and Monet, will be discussed in detail. Text: John Rewald, The History of Impressionism, New York: Museum of Modern Art, various editions (with cover). Exclusion: FASH118
Session: Winter Day
R. Steinbock
Not offered 1994/95

FABR1465 Post impressionism
Telephone ID #: 06224553
The painting and drawing of late nineteenth-century pioneers of modern art. The course will be a detailed study of the major post impressionist artists, including Gauguin, Seurat, Van Gogh, and Cezanne, their roots in impressionism, the highly independent direction of their careers, and their establishment of artistic principles that extend far into the twentieth century. It includes the importance these artists placed on individual perception with the ideas and social currents they experienced. Exclusion: FASH122
Session: Winter Day
L. Carney
Not offered 1994/95

FABR215 The Arts in Canada: 1870-1900
Telephone ID #: 06226063
A survey of painting and sculpture in French and English Canada. The course examines the arts of French and English Canada in its diverse social, political and cultural contexts. Text: Diane Reid, A Concise History of Canadian Painting, 1988 edition. Exclusion: FASH112
Session: Winter Day
L. Carney
Not offered 1994/95

FABR216 Women and Visual Art
Telephone ID #: 06226953
The influence of feminism on making and understanding art in the last 150 years. The course includes a broad overview of feminist art, the course examines women artists and their relationship to "masculinism." It also studies the impact of feminist theories on art movements, and the changes they have engendered. Prequisite: WST180, FABA130S, FARA101S or permission of instructor. Session: Winter Day
L. Carney, J. Hoogstraten
Not offered 1994/95

FABR260 The Art of Southeast Asia
Telephone ID #: 06226633
Art of the Southeast Asian peoples including Cambodia and Thailand as well as Java and Bual in Indonesia. The course will concentrate on two of the most important groups of monuments of Southeast Asia, the temple on Central Java (500 to 1000AD) and the group of Khmer monuments at Angkor in Cambodia (9th to 13th century). The influence of Buddhism will be a major reference point in the discussion of these monuments. Textbook: Philip Rawson, The Art of Southeast Asia, London: Thames and Hudson, Reprint 1990 soft cover.
Exclusion: FASH108
R. Steinbock
Not offered 1994/95

FABR130 Art Around 1900
Telephone ID #: 06231453
An exploration of the two intertwined movements of Symbolism and Art Nouveau. These movements took place in such centres as New York, Brussels, Paris and Vienna. The course will emphasize the remarkably rich range of objects created, including paintings, art glass, books, jewelry and fashion. Careful attention will be paid to the literary sources of visual imagery.
Prerequisite: One full-course equivalent at the b-level or permission of the instructor
Session: Winter Day
R. Steinbock
Not offered 1994/95

FABR217 Leonardo da Vinci
Telephone ID #: 06231733
A study of Leonardo's accomplishments in the various areas of his activity. At the beginning the focus will be on Leonardo as an artist, from his early works to Verrocchio's studio to the masterpieces of his mature period, like The Virgin of the Rocks, The Last Supper, and The Mona Lisa. Attention will be paid to Leonardo's philosophical ideas, to his interest in nature, to the way his research became integrated into his art, and to his career as a philosopher and scientist. Finally, the course will deal with the approach taken by Frenier and other psychoanalysts in an effort to decipher Leonardo's unique personality.
Prerequisite: One full-course equivalent at the b-level in an art history course.
Session: Winter Day
G. Scavizzi
Not offered 1994/95

FABR118 Seminar in Twentieth-Century Art
Telephone ID #: 06231853
Special topics in twentieth-century painting and sculpture. The subject will change from time to time. After introductory sessions outlining the subject and ways of getting information about it, each semester member will research a topic and present it.
Session: Winter Day
L. Carney
Offered 1994/95
**Fine Art Studio**

The Specialist Programme is designed for students who are considering art as a profession and/or who may want to continue to the graduate level. It also prepares students for work in the areas of art gallery administration, curating, arts councils, and art college teaching.

**Specialist Programme in Fine Art Studio**

**Supervisor:** Don Holman (287-7177)

Students must complete fourteen and one half full-course equivalents: ten and one half full-course equivalents in studio; two full-course equivalents in art history which must include FARA121; and two additional full-course equivalents in cognitive disciplines.

The list of recommended courses is available from the Programme Supervisor. The courses in studio must include:

1. FARA020, FARA019S
2. FARA055S, FARA122S; FARA075Y
3. Four full-course equivalents from the remaining B-level, and/or C-level chosen in consultation with the supervisor.
4. Two D-level full-course equivalents.

The Major Programme in Studio will give the student a full and broad exposure to both the various processes of art-making and to recent developments in art criticism. The programme provides some preparation for teaching at the high school or elementary level.

**Major Programme in Fine Art Studio**

**Supervisor:** Don Holman (287-7177)

Students must complete seven full-course equivalents as follows:

1. FARA001T, FARA019S
2. FARA013S
3. FARA075Y*  
4. FARA075T*  
5. FARA075S*  
6. FARA020S*
7. Two and one-half additional full-course equivalents, one of which must be at the D-level.*

* Students should check these courses for prerequisites.

A recommended approach to our programmes would be:

**MAJOR PROGRAMME**

**First Year:**

FARA06Y Foundation Studies in Studio  
FARA019S But Why is it Art?  
FARA121S Second Year:  
FARB020F Drawing I  
FARB072F Contemporary Issues in Printmaking  
FARB075Y Painting I  
FARB082F Introduction to Lithography  
FARB074S Drawing II  
FARB074T Engraving  
FARB075F FARB082S or FARB077S  
FARB024S/FARB025S or FARB020S*

*These courses should be checked for availability due to cycling.

The Fine Art Studio curriculum is built around the idea that art is a means of expressing and understanding the human condition. It does not offer courses in commercial or advertising art.

Our course offers the student a practical "hands-on" experience in art-making. The studio experience is intended to expand the student's perception not only of what art is, but of why and how it is made. Through the actual process of art-making, the student will develop the ability to understand and experience the challenges of contemporary art. Critical skills will expand with practical skills.

Our A-level studio course is Foundation Studies in Studio and it covers, through practice and discussion, basic media and concepts. The corequisite is FARA019S But Why is it Art? They must be taken before advancing to our B-level courses which will introduce the student to other media, processes, and a deeper investigation of the ideas behind art. C- and D-level courses allow supervised and independent work in any area the student wishes to investigate.

The Major and Specialist Programmes require an Art History course, FARA13. In addition, we strongly urge our students to take other Art History courses dealing with modern and contemporary art.

Students will be expected to purchase the materials necessary for each course. An estimate of the costs is available from the Programme Supervisor.

**SPECIAL PROGRAMME**

**First Year:**

FARA06Y Foundation Studies in Studio  
FARA019S But Why is it Art?  
FARA121S Second Year:  
FARB020F Drawing I  
FARB072F Contemporary Issues in Printmaking  
FARB075Y Painting I  
FARB082F Introduction to Lithography  
FARB074S Drawing II  
FARB074T Engraving  
FARB075F FARB082S or FARB077S  
FARB024S/FARB025S or FARB020S*

**FARA001T, FARA019S or FARA022S or another FCE at the B-level or C-level.**

FARB000F and one other full-course at the B-level or C-level.  
FARB040S and one other full-course at the D-level.**

Two full-course equivalents at the D-level.**

**FARA06Y Foundation Studies in Studio**

An introduction to the various processes of art-making: drawing, painting, sculpture, printmaking, installation work, performance, and video media.

The course is intended to prepare the student to begin studio work. A basic foundation of visual understanding will be built through the personal exploration of a number of processes, concepts, and media. Students will discover, through assigned work and discussions, the many ways contemporary art is made. They will be encouraged to explore a number of processes through assignments and will also be expected to give an oral presentation in a course called "Art in Action."
presentation on a contemporary artist.
Limited enrolment: 20 per section
Exclusion: FAS310
Corequisite: FARA01
Prerequisite: an A/AAC Visual Art or permission of instructor following a positive evaluation of a portfolio.
Session: Winter Day
Staff
Offered 1994/95 and 1995/96
FARA919 What is Art?
An introduction to the basic ideas behind recent art, how they developed, and why they changed.
I don't know anything about art but I know what I like." Why do we feel uncomfortable when confronted with contemporary art? What are we supposed to be thinking and why? This course aims to develop a broad basic knowledge of the critical positions that led to major changes in recent art.
Session: Winter Day
J. Hoogersten
Offered 1994/95 and 1995/96
FARR999 Women and Visual Art
Telephone ID: 0622663
The influences of feminism on making and understanding art in the last 150 years.
Using informal lectures, the course discusses women artists and their relationship to "mainstream art." It also studies the impact of feminist theories in art movements and the changes they have created.
Session: Winter Day
L. Carney, J. Hoogersten
Not offered in 1994/95
Offered in 1995/96
FARF007 Drawing I
Telephone ID: 0622703
An investigation of the various approaches to drawing, including working from the figure and working with ideas.
Using the model and assignments, this course develops the student’s ability to investigate the potentials inherent in drawing. The student must complete a number of finished drawings, working both from the model and from assigned problems. Drawings from the model, assigned drawings, and a completed sketchbook will make up the final portfolio for grading. All assigned work will be discussed in class by the instructor and course members.
Limited enrolment: 20
Exclusion: FAS238
Prerequisite: FARA001
Session: Winter Day
D. Holman
Offered 1994/95 and 1995/96
FARB979 Contemporary Issues in Printmaking
Telephone ID: 0627233
An exploration of traditional and more experimental processes of printmaking.
Students will investigate the broad possibilities inherent in printmaking through assigned work which will be discussed in class and individually with the instructor. They will also be required to give an oral presentation on a contemporary artist.
Limited enrolment: 15
Prerequisite: FARA001
Session: Winter Day
D. Holman
Offered 1994/95 and 1995/96
FARB985 Drawing II
Telephone ID: 0622745
A continuation of FARF70 with an increased emphasis on the student’s ability to expand his/her personal understanding of the meaning of drawing.
Through the use of the model and assigned projects, the student will be required to explore a number of visual possibilities dealing with both objects and ideas.
This course requires the student to work from the figure as well as work from concepts assigned to the class. These concept drawings will be discussed in class and will, with a complete sketchbook, make up the final portfolio for grading.
Limited enrolment: 20
Exclusion: FAS238
Prerequisite: FARF70
Session: Winter Day
D. Holman
Offered 1994/95 and 1995/96
FARB975 Painting I
Telephone ID: 0622756
An investigation of the possibilities of painting, with an emphasis on the rich potential for expression of both personal and social imagery.
This course is designed to expose the student to current concepts in painting, primarily the shift from Modernism to Post-modernism and its consequences. These changes will be investigated through an exploration of both media and imagery.
Work in the first term will be based on assignments. Work in the second term will consist of images and concepts developed by the individual student. Discussions of work will be held regularly on both an individual and group level. Students will be required to give an oral presentation on a contemporary artist and write two papers on contemporary art.
Limited enrolment: 20
Exclusion: FAS230
Prerequisite: FARA001
Session: Winter Day
T.P.A.
Offered 1994/95 and 1995/96
FARB984 Introduction to Lithography
Telephone ID: 0622833
An introduction to black and white stone lithography including a detailed investigation of materials and techniques.
The course will include demonstrations and lectures covering the technical aspects of the medium. Students will be required to pass a test on procedures and explore the medium by drawing, processing, and printing several of their own lithographs. Discussions of work will be held regularly on both an individual and group level.
Limited enrolment: 10
Prerequisite: FARA001 or permission of instructor.
Session: Winter Day
D. Holman
Offered 1994/95 and 1995/96
FARB984 Intermediate Lithography
Telephone ID: 0622853
A continuation of FARB984, with emphasis on multi-colour printing.
The course explores the technical aspects of working with coloured inks. Students will be expected to work on visual ideas by drawing, processing, and printing a number of their own lithographs. Individual and group critiques will be held to discuss assigned work.
Limited enrolment: 10
Prerequisite: FARB984 and permission of instructor.
Session: Winter Day
D. Holman
Offered 1994/95 and 1995/96
FARB985 Introduction to Intaglio
Telephone ID: 0622863
An exploration of printmaking with a focus on etching.
This course will involve the student in the various methods of printmaking, with an emphasis on the techniques associated with etching, including engraving and dry point. Both lectures and demonstrations will introduce the student to the basic concepts and processes associated with intaglio printing. Students will draw and process zinc plates and produce several editions in black and white. Group and individual critiques will be held to discuss these prints. Students will also be required to view and assess historical and contemporary prints.
Limited enrolment: 15
Prerequisite: FARB972 or permission of instructor.
Exclusion: (FARB847)
A. Brunnen
Not offered in 1994/95
FARB987 IntermEDIATE INTAGLIO
Telephone ID: 0622873
A continuation of FARB985, focusing on colour and multi-plate printing.
The course will examine the technical aspects of working with coloured inks, and will require students to produce several editions in colour. Individual and group critiques will be held to discuss assigned work. Students will also be required to view and discuss prints by past and contemporary artists and to visit exhibitions and print shops.
Limited enrolment: 15
Prerequisite: FARB984 or permission of instructor.
Exclusion: (FARB846)
Session: Winter Day
A. Brunnen
Not offered in 1994/95
FARH999 Sculpture Concepts
Telephone ID: 0622926
The changes in sculpture in the 20th century, with an emphasis on contemporary art.
This course familiarizes the student with recent concepts in sculpture, primarily the shift from Modernism to Post-modernism, and the reasons for this shift. Current ways of exploring space, time, motion, and sound will be discussed.
A. The course will have a lecture/discussion format with each student leading a discussion. Students will also be responsible for a number of working drawings dealing with assigned problems. Texts include Rosalind E. Krauss, Passages in Modern Sculpture.
Limited enrolment: 15
Prerequisite: FARA007 or permission of instructor.
Session: Winter Day
J. Hoogersten
Not offered in 1994/95
FAR72 Y Supervised Studies in Studio
An opportunity for the student to create a number of personal statements working in an area of their own choice.
These courses may be taken in any area including printmaking, drawing, painting, sculpture, photography or mixed media if the student, through the portfolio and proposal, can show the ability to proceed to the intermediate level. Students will provide their chosen instructor with a written proposal within the first week of classes. This will state the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students’ position. They will also meet at appointed times to discuss work-in-progress. Content, method and evaluation will be planned in co-operation with the instructor.
Limited enrolment: 3
Exclusion: FAS338
Prerequisite: FAR874, FAR875, FAR883, FAR884 or FAR892 and permission of instructor based on the written proposal and portfolio.
Session: Winter Day
J. Hoogstraten, D. Holman
Offered 1994/95 and 1995/96

FAR73 Y Advanced Studio: Individual Study in Painting
Telephone ID: 06242163
A further opportunity for individual exploration in painting.
This course is designed for mature students who, through their portfolio and proposal, have shown their ability to work without intensive guidance. Students will provide their chosen instructor with a written proposal within the first week of classes. This will state the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students’ position. They will also meet at appointed times to discuss work-in-progress. Content, method and evaluation will be planned in co-operation with the instructor.
Limited enrolment: 3
Exclusion: FAS430
Prerequisite: at least one half course in painting at the C-level
Session: Winter Day
J. Hoogstraten
Offered 1994/95 and 1995/96

Course Not Offered in 1995/96
Fine Art Studio
FAR872 Y Photographic Issues in the Visual Arts
FAR877 Y Painting II
FAR889 Y Painting III

French

Discipline Representative: W. J. Bancroft
Supervisor of Studies: C. Evans
Supervisor of Study Elsewhere: C. Bertrand-Jennings

Undergraduate studies of French normally begin with FREGA10, Language Practice I, which serves to consolidate previous language experience. This course is also the prerequisite for all advanced language, literature, and linguistic courses in our programme of French studies.
The courses offered are designed primarily for students with O/A/C/French (or Grade 13 French) who wish to continue their study of the language and literature of French Canada and France. Those students who have significant "immersion" or "enriched" high school experience should consult the faculty member responsible for PREB10 or PRFC10.05 concerning the appropriate language practice course for their purposes. Students without O/A/C/French or equivalent are urged to obtain credit for FREA16 on a "study elsewhere" basis, for example, by attending a summer immersion programme. Further information is available from our Supervisor of Study Elsewhere, Professor C. Bertrand-Jennings.

Once FREA10 (or its equivalent) is completed, students intending to continue their French studies may choose courses from a variety of areas. These are described below.
Please consult the Programme Supervisors and members of the French staff for more detailed advice about course selection and for information about our Specialist and Major Programmes.

Areas of study in French include:

a) Practical language studies
i) For general purposes: A10, B10, C20, C20
ii) For special purposes: translation: E108, C18

b) Literature
Courses in literature, both of France and French Canada, cover a range of periods and genres. Some literary study is a requirement of each of the Programmes offered by the Discipline.

Students interested in more comprehensive studies in linguistics are invited to consult the Curriculum in Linguistics. LINA001 and 105 are of particular relevance to students.

c) Civilization
Courses in the civilization and culture of French Canada, France, and other francophone countries cover all periods and provide opportunities to intensify understanding of the settings within which the literature and the language of these communities have developed. Relevant courses include B22, B23, B27, and J28. Only one full-course equivalent in the area of civilization may be counted as part of the requirements for each of the Specialist and Major Programmes in French.

The College’s "Study Elsewhere Programme" offers ideal opportunities for French students to fulfill some of their programme requirements whilst studying French elsewhere. For example, the University of Toronto sponsors programmes at Laval (Quebec) and Aix-en-Provence (France). If interested, please consult the Supervisor of Study Elsewhere.
For further information about the Study Elsewhere Programme and Letters of Permission refer to page 400.

Normally, a student may not take an A-level French course at the same time as or after a B-level French course.

Other courses and suggestions likely to interest students may be found under Language Studies.

The French Discipline offers six different programmes: a Specialist Programme in French Language and Literature; a Major Programme in French Language and Literature; a Minor Programme in French Language; a Minor Programme in French; a Joint Specialist Programme in Management and Language; and, in cooperation with the
FREH 1 and FREC 1. Scarborough College, in association with the Faculty of Education, will arrange these practicum placements in local elementary and secondary schools.

B. Ten further full-course equivalents:

Students are advised to choose courses to suit the teaching programme and the teaching subjects they are interested in. Information and advice will be available through the Programme Coordinator at Scarborough and through consultation at the Faculty of Education. The following are recommended as general preparation for the FEET B.Ed. Programme:

- a half-course in educational psychology
- a half-course in language acquisition
- a half-course to develop computer skills.

Major Programme in French Language and Literature

Supervisor: C. Evans

Students should complete seven full-course equivalents, including:

1. FREA 107Y, FREB 107Y, and one full-course equivalent from the sequence FRECO 1-C5 (except where substitution of other French courses is permitted for students with special proficiency in the French language).
2. Four full-course equivalents in French Literature and French Canadian Literature, one of which should deal with a period prior to 1900 and one with a period after 1800.
3. Two further full-course equivalents in French (see exclusions listed below)
4. Five more full-course equivalents outside French but from related areas of study, to be agreed upon in consultation with the Supervisor.
5. Of the courses chosen in French (items 1-4), four full-course equivalents must be at C- or D-level (or from the 300 and 400 series courses on the St. George campus). Both the sequence FRECO 1-C5 and supervised reading may count for requirements for the Specialist Programme.

It is recommended that students intending to specialize in French take FREA 107Y or FREB 107Y early in their programme of studies.

The following may not count toward a Specialist Programme:

1. Any A-level French course, with the exception of FREA 107, and FREB 107Y.
2. FREB 17, FREB 18, FREB 28, FREB 30, FREC 11, FREC 18.

Specialist Programme: Education of Teachers in French

Co-ordinator: W. J. Kirkman

This two-year specialist programme is designed to prepare future teachers of French at all levels in the school system: primary/junior, junior/intermediate and intermediate/senior. It includes both academic courses in French and other subjects and practicum placements in elementary or secondary schools in years 3 and 4.

The programme is designed and offered jointly by the Divisions of Humanities, Scarborough College, and the Faculty of Education, University of Toronto, in order to meet the needs for teachers of French throughout the school system. It provides a comprehensive education for future teachers of French which emphasizes both content and methodology.

Students will be admitted to the programme on the basis of their overall performance in first year, their performance in FRE courses, and an interview. Students who successfully complete this programme of studies and who meet the admission requirements of the Faculty of Education will be admitted to the University of Toronto's Faculty of Education. Up to 20 students will be selected for this programme each year, starting in 1993-94.

Students in this Specialist Programme must complete a total of 20 courses chosen from the two main categories below:

1. Ten full-course equivalents in French as follows:

- Three full-course equivalents consisting of: FREA 107Y, FREB 107Y, and one full-course equivalent (normally one half-course in written French and one in oral French) from the sequence FRECO 1-C5 (except where substitution of other French courses is permitted for students with special proficiency in the French language).
- Two full-course equivalents selected from the following: FREB 25Y, FREB 41Y, FREC 42Y, FREC 43Y.
- One full-course equivalent selected from the following: either FREB 222Y, FREB 232Y, FREB 242Y, FREB 244Y, FREC 201Y, FREC 205Y.
- Additional full-course equivalents in literature which must include:
  - one full-course equivalent in French Canadian literature;
  - one full-course equivalent in French literature from other parts of the French-speaking world excluding France and Canada.

2. Ten full-course equivalents in language which must include:

- FREA 101 (as of these courses are described in detail below).

Programme requirement:

All programme requirements are included in the above.

French 101

French Language Practice I

Teaching French: Reinforcement and development of the language skills—understanding, reading, writing, and speaking—necessary for higher-level courses.
The course consists of a grammar review with written and oral assignments, reading and discussion of a variety of texts representing different francophone cultures and whatever exercises class and instructor may choose to devise. The class meets three times a week and, in addition, will do a fourth hour of speaking and listening with recorded materials. This course is a prerequisite for all B-level courses in the French discipline at Scarborough College except FRE823 and FRE990.

For students planning to specialize in French, FRE435Y is recommended as a companion course.

Exclusion: FRE810, native or near-native proficiency in French, FRE160, Fre 182. Prerequisite: Grade of C in Grade 13 French (or FRE165) or equivalent. Session: Winter Day, Winter Evening. J. Keenest and Staff Offered 1994/95 and 1995/96

FRE435Y Introduction to Francophone Literature
Telephone ID #: 06616763
A study of representative works from major periods and areas of the literature of the francophone world.
Prerequisite: Introduction to the thought of reading literary texts in French. Students will be encouraged to acquire the basic vocabulary necessary to analyze literature and to develop their essay-writing skills in French. This course is recommended for students intending to major or specialize in French as a useful background for more advanced studies and for those students interested in enhancing or obtaining their reading, writing, and speaking skills in French. The class will meet for three hours each week for lectures and discussions conducted in French.
Exclusion: FRE150, FRE240. Prerequisite: Grade of C in Grade 13 French or (FRE165) or equivalent. Session: Winter Day, C. Evans Offered 1994/95 and 1995/96

FRE820FS Practical Translation
Telephone ID #: for FRE820FS: 06628381 Telephone ID #: for FRE820FS: 06628385 Translation practice from French to English and English to French.
Texts from fields such as literature, business, politics, law, science and technology, art, and advertising will be translated, analyzed, and discussed in terms of type of language and style of expression. Class time is devoted to increasing the student's proficiency. Evaluation will be based on class participation, written and oral assignments, and an examination. Exclusion: FRE470, 480, 481. Prerequisite: FRE810 (FRE800) or equivalent. Session: Winter Day, J. Miller Offered 1994/95 and 1995/96

FRE829Y Language Practice II
Telephone ID #: 06629863
A continuation of FRE810. This course is concerned with the development of fluency, accuracy of expression, and style, through the study of grammar, composition, oral practice, readings, and language laboratory work. Evaluation in each session is limited to 15. Exclusion: FRE810, native proficiency in French, FRE823, 283. Prerequisite: FRE810 (FRE800) or equivalent. Session: Winter Day, J. Magner-Fontenfou and Staff Offered 1994/95 and 1995/96

FRE811H French Language Learning in the School System
Telephone ID #: 00021143
This course is offered by the Faculty of Education in conjunction with the Division of Humanities, Scarborough College, and is intended for students considering a career in French language teaching. It will involve a series of seminars as well as preparation for a practicum in local elementary and secondary schools. Enrollment is limited to students already admitted to the Education of Teachers in French Program.
Prerequisite: FRE810 (FRE800) or equivalent. Session: Winter Day, A. Gagné Offered 1994/95 and 1995/96

FRE818Y Commercial French
Telephone ID #: 06628163
The French language is a commercial or economic context.
This course is of interest to students in French, Business, Accounting, Computer Sciences, and Economics majors, and to all who wish to improve their skills in preparation for entry into a specialized area of the job market. In order to provide the student with the basic elements of commercial techniques as practiced primarily in the Canadian francophone business community, the program will consist of theoretical and practical sessions. Class meetings will be devoted, among other things, to correspondence writing and to exercises that include the vocabulary and structures involved in the language of business.
This course may not count towards a French Major Programme in French, or the Major Programme in French Language and Literature.
Exclusion: FRE356. Prerequisite: FRE810 (FRE800) or permission of the instructor. Session: Winter Day, W. J. Boccard Offered 1994/95 and 1995/96

FRE825Y Introduction to French Linguistics
Telephone ID #: 06622363
A study of the linguistic structure of French and of linguistic theories from the beginning of the twentieth century to the present in applied to modern French.
Topics such as the following will be covered: sound patterns and word formation in French; social and regional variations. Students are expected to make short presentations and write one major paper.

FRE827F 20th-Century France
Telephone ID #: 06622733
An examination of political, social, and cultural developments in France to the last hundred years.
Topics will include: the impact of the two World Wars; the decolonization process; France and its relations with North America, the European Community and the Third World; the main artistic and intellectual movements in France; the educational system, etc. This course is designed to interest both specialists and non-specialists.

FRE823Y The Francophone World
Telephone ID #: 06622853
An examination of historical, political, and cultural realities of the French-speaking West Indies, Europe, Africa and South-East Asia.
Topics to be discussed will include slavery, colonization, decolonization and multiculturalism. Artistic and intellectual developments will be studied, based on written and audio-visual materials. The course is designed to interest both specialists and non-specialists.
Exclusion: FRE252, 253. Prerequisite: FRE810 (FRE800) or equivalent, or permission of instructor. Session: Winter Day, F. Magner-Fontenfou. Not offered 1994/95. May be offered 1995/96

FRE824Y Theoretical and Practical Phonetics
Telephone ID #: 06624863
A study of modern French pronunciation. This course will comprise the following: general principles of French phonetics, phonetic transcriptions, corrective pronunciation, the study of the relationship between spelling and pronunciation, and recordings by students themselves. Basic textbook required: P. Léon, Prononciation du français standard. Limited enrolment per section: 20
Exclusion: FRE272. Prerequisite: FRE810 (FRE800) or equivalent. Session: Winter Evening, C. Bertrand-Jennings and C. Evans Offered 1994/95

FRE826F Approaches to the French Literary Text
Telephone ID #: 06625033
Concepts and techniques of literary criticism. Students analyze selected works from a wide range of fields of fiction, drama, and poetry. Emphasis is on growth rather than on literary movements or periods. Lectures and discussions conducted in French.
Exclusion: FRE829Y (FRE820Y); FRE824Y. Prerequisite: FRE810 (FRE800) or equivalent. Session: Winter Day, C. Bertrand-Jennings. Not offered 1994/95. May be offered 1995/96

FRE826F Introduction to 19th-Century French Literature
Telephone ID #: 06625633
An analysis of Romanticism in 19th-century French literature with attention to its major writers.
Introductory lectures will be devoted to exploring the origins of French Romanticism, the spread of Romanticism in Europe, as well as events and social changes which contributed to the formation of the
FRENCH

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Romantic Movement. Works of fiction, drama and poetry by prominent authors from the first half of the 19th century will be studied. Classes will be conducted as seminar-discussions in French, supplemented by audio lectures. Exclusions: FREN226
Prerequisite: FREN10 (FREN200) or equivalent
Pre- or Corequisite: FREN50 (FREN546) or FREN50 or permission of instructor
Session: Winter Day
C. Bertrand-Jennings
Not offered 1994/95
May be offered 1995/96
FREN575 Introduction to 19th-century French Literature
Telephone ID #: 06625753
A survey of the main trends and characteristics of French literary practice in the second half of the 19th-century.
Major works of fiction, drama and poetry by representative writers from the period. Naturalist and Symbolist movements will be studied in their own right as well as in connection with their society. Classes will be conducted as seminar-discussions in French, supplemented by audio lectures. Prerequisite: FREN10 (FREN200) or equivalent
Pre- or Corequisite: FREN50 (FREN546) or FREN50 or permission of instructor
Session: Winter Day
C. Bertrand-Jennings
Not offered 1994/95
May be offered 1995/96
FREN905 Understanding Quebec and French Canada
Telephone ID #: 06629533
A course designed for students who are preparing to use French for specific job-related purposes: e.g., journalism, essays, and reports on political, social and cultural issues. Students will be expected to write in French on this course.
Prerequisite: FREN10 or equivalent
Session: Winter Day
L. Mignault
Offered 1994/95 and 1995/96
FREN905 Advanced Written French for Professional Purposes
Telephone ID #: 06630253
A course designed for students who are preparing to use written French for specific job-related purposes: e.g., journalism, essays, and reports on political, social and cultural issues. In addition, students will be expected to write in French on this course.
Prerequisite: FREN10 or equivalent
Session: Winter Day
L. Mignault
Offered 1994/95 and 1995/96
FREN905 Oral Communication for General Purposes
Telephone ID #: 06630433
A course designed for students who have already developed an ability to communicate orally in French and wish to improve their degree of competence and sophistication particularly for the purpose of public address. The focus is on comprehension of authentic documents and oral expressions in French.
Exclusion: FREN11
Prerequisite: FREN10 or equivalent
Session: Winter Day
W. J. Bancroft
Not offered 1994/95
Offered 1995/96
FREN911 Teaching French as a Second Language
Telephone ID #: 06631233
A study of current theories of language teaching and learning, and their applications to the teaching of French as a second language.
Topics include communicative competence, traditional and innovative methods and approaches, and the development of teaching materials. Theoretical and practical sessions are conducted in French. Students are strongly urged to take LINC 205 before FREN 911.
Exclusion: FREN11
Prerequisite: FREN10 or equivalent
Session: Winter Day
L. Mignault
Offered 1994/95 and 1995/96
FREN111 FRENCH Literatures
Telephone ID #: 06631233
A study of current theories of language teaching and learning, and their applications to the teaching of French as a second language.
Prerequisite: FREN10 or equivalent
Session: Winter Day
W. J. Bancroft
Not offered 1994/95
Offered 1995/96
FREN111 Translation for Business and Technical Purposes
Telephone ID #: 06631233
A continuation of FREN11, devoted to the study of the French language as a commercial, professional, and technical tool.
Through in-class practice in translation from French to English and English to French, students will have the opportunity to widen their knowledge of the vocabulary and structures particular to the language of business as well as to specific fields such as legal services, social work, health care, industrial relations, insurance, and software.
Class work is directed toward increasing the students' proficiency. Evaluation will be based on class participation, written and oral assignments, and an examination.
Exclusion: FREN11
Prerequisite: FREN11 or equivalent
S. Meier
Session: Winter Day
Not offered 1994/95
May be offered 1995/96
FREN112 The Age of Versailles
Telephone ID #: 06635133
A study of the most important and innovative writers of 17th-century France. Because of its universal themes and its accomplishment in the area of style, the Classical period is regarded as a high point of literary achievement, and its influence has been felt by every succeeding generation. The course looks at these and other aspects of 17th-century literature.
Courses Not Offered in 1995-96

FREB222187 The Society and Culture of French Canada I
Exclusions: FREN90, FREN210
Prerequisite: FREN10 (BOE) or equivalent
Offered 1994/95

FREB222188 The Society and Culture of French Canada II
Exclusions: FREN90, FREN210
Prerequisite: FREN10 (BOE) or equivalent competence
Offered 1994/95

FREB14178 The Literature of French Canada I
Prerequisite: FREN90 (BOE) or equivalent
Offered 1994/95

FREB14278 Women and Literature in France
Exclusions: FREN90, FREN181
May be offered 1994/95

FREB14598 Introduction to Medieval French Language and Literature
Exclusions: FREN222; FREN420, FREN471
Prerequisite: One B-level course in the group FREB10-181, except (FREN17), FREB18
Comprises: FREN10 (BOE) or FREB90 or permission of instructor
Offered 1994/95

FREB15198 The Classical Age: Comedy
Exclusions: FREN85, FREN86, FREN156
Prerequisites: FREN10 (BOE) or equivalent
Comprises: FREN158 (AOA10) or FREB10 or permission of instructor
Offered 1994/95

FREB15298 The Classical Age: Tragedy and Exclusion: FREC928, FREN90, FREN156
Prerequisites: FREN10 (BOE) or equivalent
Comprises: FREN158 (AOA10) or FREB10 or permission of instructor
Offered 1994/95

FREB16098 The 20th-Century French Novel I: 1900-1940
Exclusions: FREC928, FREN90, FREN138
Prerequisites: FREN10 (BOE) or equivalent
Comprises: FREN158 (AOA10) or FREB10 or permission of instructor
Offered 1994/95

FREB16198 The 20th-Century French Novel II: 1940 to the Present
Exclusions: FREC928, FREN90, FREN138
Prerequisites: FREN10 (BOE) or equivalent
Comprises: FREN158 (AOA10) or FREB10 or permission of instructor
Offered 1994/95

FREB15998 Women's Consciousness in French Literature
Exclusions: FREN90, FREN181
Prerequisite: FREN10 (BOE) or equivalent
Comprises: FREN158 (AOA10) or FREB10 or permission of instructor
May be offered 1994/95

FREB15098 Cooperative Stylistics
Exclusions: FREN90, FREN181
Prerequisites: FREN90 and FREB10
Offered 1994/95
**Minor Programme in Geography**

Supervisor: M. Brooke (287-7331)

The requirements for this Programme are four full-course equivalents in Geography which must include one full-course equivalent in the C-level or D-level.

**Note:** Students registered at Scarborough College prior to the 1995-94 session may count all EES courses previously listed as GOR courses towards the fulfillment of Specialist and Major Programmes.

**GGRA04F Concept and Methods of Human Geography**

**Phone:** 6094033

The conceptual and methodological foundations of human geography. The concepts examined will include place, location, distance and proximity, spatial scales, linkages and disparities, and the relationships between people and environments. The methods studied will include field survey and analysis, graphic representation and interpretation of numerical data, population analysis, and the use of descriptive statistics. Teaching method: 2 hour lectures, 1 hour lab.

**Instructor:** M. Brooke, O. Wainstock

**Session:** Winter Day, M. Brooke

**EES402S Introduction to Physical Geography**

**Course:** Environmental Science

**Phone:** 6092063

The basis for understanding resource development policies and environmental management strategies. Problems of resource development and environmental management are examined generally in their local context, and specifically with reference to Canadian circumstances and policies. Issues discussed will include population growth and quality, world food problems, global emergency, water resource management in Canada, and conservation strategies.

**Instructor:** M. Brooke

**Session:** Winter Day, M. Brooke

**EESE05 International Development Studies: Physical and Ecological Resource Management**

**Phone:** 6012053

Introduces students to the physical and ecological bases of natural resource management, and their role in constraining development in Third World countries. The course includes study of: basic climatic processes, climatic functions, hydrological cycle and its role in water resource management; principles of soil and water conservation; urban development; and pest control and agriculture.
that is from the industrial era, through modernization to post-modernism. Assignments will emphasize methods for the observation, analysis and graphical presentation of urban land use, activities in public spaces and built forms. A two-hour lecture and a one-hour lab each week.

Prerequisite: GGRA04 Session: Winter Day E.C. Relph

GGRB17F Rural Land Use Studies
Telephone ID #: 06931713
The study of patterns and processes of rural land use. Emphasis will be placed on the nature and impact of recent changes in the agricultural, residential and recreational use of rural land in urbanizing regions. Lectures and readings will survey the main land use theories and some of the recent empirical studies of land use change, drawing examples from different parts of the world. Particular attention will be given to the problems of describing and analyzing rural land use change. Field and laboratory projects will introduce students to the methodology of rural land use study, including land use surveys and mapping, farm surveys, and the use and interpretation of remote sensing information and Geographical Information Systems. Students will be expected to complete a field research project. A one-hour lecture and one-hour lab each week.

Prerequisite: One of GGR04, IDS001, IDS002 Session: Winter Day M. Bunce

GGRB7F Location and Spatial Development
Telephone ID #: 06922753
Application of competitive location theory to explain economic landscapes. Topics include Roman towns and spatial equilibrium, trade flows and spatial price equilibrium, geographic market areas and spatial pricing policies, location of a firm with mobile resources, and trade theory and regional specialization. Three hours of lectures per week.

Prerequisite: EC002 Session: Winter Day J. Miron

EEBS05F Principles of Geomorphology
see Environmental Science

EEBS05F Principles of Climatology
see Environmental Science
laboratory experiments, the analysis of cause or effect, published data, or some combination of these. Evaluation will be based on 1) an extended proposal or progress report submitted on or before October 31, value 20 percent of final grade; 2) a complete draft of the final report submitted on or before February 28, value 20 percent of final grade; 3) a written report or dissertation of professional quality in its presentation, submitted on or before March 31, value 60 percent of final grade. The final report will be evaluated by at least two members of faculty and the student may be asked to defend it at oral examination. 

Exclusion: GGR305
Prerequisite: Any fifteen full-course equivalents including at least five equivalents in Geography and GGR311 or equivalent.
Session: Winter Day
Staff

GGR205 Environmental Philosophs
Telephone ID: 0961023
A critical review of different attitudes and approaches to environments, with special attention to their assumptions and implications. Issues discussed will include the meaning of preservation, conservation, management and sustainable development; the forms of technological control of the environment; environmental ethic, deep ecology; environmental concerns versus social concerns; global environmental management.
Exclusion: GGR321
Prerequisite: Any 10 full-course equivalents including at least one of GGR201, GGR217, IDS201, IDS202
Session: Winter Day
Staff

GGR205/S Theoretical Geomorphology
see Environmental Science

GGR204/S Sedimentary Models
see Environmental Science

GGR205/S Hillslope Geomorphology
see Environmental Science

GGR205/S Clastic Climate
see Environmental Science

GGR201/S Hydrology: Physical Processes and Modelling
see Environmental Science

Course Not Offered in 1995-96

GGR205/S Data Analysis in Geophysics: An Introduction

Exclusion: GGR270
Prerequisite: GGR204 or GGR205

GGR270 Urban Transportation Policy
Exclusion: GGR224
Prerequisite: University-level half course in data analysis (e.g. STAB22) and one of GGR225 or GGR227

GGR225 Issues in Rural Development
Prerequisite: One of GGR201, GGR17, IDS201, IDS202

GGR225/S Quantitative Research in Geography
Prerequisite: University half-course in data analysis

GGR225/S Landscape Interpretation
Prerequisite: GGR205 and GGR211

GGR225/S Issues in Rural Development
Exclusion: GGR225
Prerequisite: GGR225, or IDS201 and POL201 and 10 full-course equivalents

Physical Geography courses are now listed as EES.

Geology
Please refer to the Environmental Science section of the Calendar for courses.

Please refer to the Physical Sciences section of the Calendar for the following programs:

Specialist Programme in Environmental Science

Specialist Programme in Environmental Earth Science

Specialist Course Programme in Environmental Science

Major Programme in Environmental Science

German

Discipline Representative: H. Ohlendorf
(287-713)

The German Programmes are designed to introduce students to the language and culture of the German speaking countries. A variety of modern integrated teaching materials is used to maximize students' exposure to the four language skills (listening, speaking, reading and writing). Students interested in language studies are encouraged to combine the German Major Programme with another language major for a Specialized degree in Modern Languages.

The German Major Programme is also recognized as an excellent complement to studies in Fine Art, History, Humanities, Linguistics, Literature, Philosophy, and Social Sciences. German also participates in the programmes Management and Language offered jointly by the Division of Humanities and the Division of Management and Economics.

The internationally recognized Certificate for German as a Second Language may be obtained by students classified in language competence, who have completed the following courses:

GER101Y, GER202Y, GER202Y, GER305Y, GER305Y, GER305Y, or their equivalents. This course of study may be of interest to students in the Social Sciences who are attracted to international relations.

A Workstudy Programme in the Federal Republic of Germany is available to qualified students. The Federal Republic of Germany guarantees a job for the months of June and July and allows for independent travel in August.

The German government, through the Goethe Institute, also makes available various scholarships for intensive language studies to qualified students.

Major Programme in German Language

Supervisor: H. Ohlendorf (287-713)

The Programme consists of the following courses:

GER101Y Introductory German

GER202Y Language Practice I

GER203Y History of the German Language

GER203Y Language Practice II

GER205/S The Last Hundred Years

GER206Y Advanced German

GER208Y General Linguistics (a more theory-oriented course)

Minor Programme in German Language

Supervisor: H. Ohlendorf (287-713)

The Minor Programme is designed to expose students to the following courses:

GER101Y Introductory German

GER202Y Language Practice I

GER205/S Intermediate German

GER207Y Advanced German

GER202Y Language Practice I

GER205/S Intermediate German

GER205/S The Last Hundred Years

Language requirements will be waived by the Supervisor for students judged to have advanced knowledge of German. Equivalent courses will be substituted in consultation with the Supervisor. Courses in German Literature in the Original will continue to be available under the rubric of supervised reading.

See also the following courses in translation: HUM201 Introduction to Literature
DRA207Y Dramatic Literature and Political Revolution
DRA217Y Science, Power and Hell: The Story of Dr. Faustus

GER101Y Introductory German

Telephone ID: 0961023

The fundamentals of the German Language, Grammar, syntax, and vocabulary are introduced to provide a basic knowledge of the language. There are three hours per week of intensive language work. Students are also encouraged to make use of available computer learning programmes.

Exclusion: GER100, GER101
Comquisite: GER202Y
Session: Winter Day

E. Lesses-Sherman

Offered every year

GER202Y Language Practice I

Telephone ID: 0961023

A practical complement to GER101Y. This course is designed to reinforce and supplement oral and written comprehension of the German grammar work done in GER101Y, as well as to expand the student's skills to communicate in German. The course will meet twice a week throughout the year. Course work can be supplemented by computer based language programmes available in the Resource Room.

Exclusion: GER100, GER101
Comquisite: GER101Y
Session: Winter Day

E. Lesses-Sherman

Offered every year

GER203Y Language Practice II

A practical complement to GER202Y. This course is designed to increase the students' vocabulary and fluency in German through supervised discussion, essay writing, and reading. The course will meet twice a week throughout the year.
twice a week throughout the year.
Exclusion: GER202, GER206
Prerequisite: OAC German or Grade 13
German or GER109 and GER110
College: GER200
Session: Winter Day
M. Ohlendorf
Offered every year
GER200Y Intermediate German
Telephone ID #: 0682008
Intensive language work involving a review
of grammatical principles in the context of
readings, oral exercises and written
composition.
Mimeographed material on current
events may be introduced from time to
time to spark class discussion.
Exclusion: GER200, GER210
Prerequisite: OAC German or Grade 13
German or GER109 and GER110
College: GER200
Session: Winter Day
M. Ohlendorf
Offered every year
GER201F The Last Hundred Years
Telephone ID #: 0685013
In this course, the student is introduced to the
most pertinent aspects of Germany's history
and culture beginning with the end of WWI and
taking into account the effects of Nazism, WWII, and
the division of Germany. The course also attempts to
understand the forces and pressures which brought
about the unification of Germany.
In addition to the material provided through
lessons and test book readings, there will be
readings and discussions of relevant
contemporary literature and film.
The course is taught in English.
Exclusion: GER204F (6)
College: Winter Day
U. Lesser-Sherman
GER205 History of the German Language
Telephone ID #: 0683025
A seminar on the history of the German
language from the Middle Ages to the present.
- Working with representative texts
  from the various historical periods, students
  will come to a better understanding of the
  modalities and structures of contemporary
  German.
Exclusion: GER205F
Prerequisite: OAC German or Grade 13
German or GER109 and GER110
College: Winter Day
U. Lesser-Sherman
Not offered 1994/95
Offered 1995/96
GER206F Language Practice III
Telephone ID #: 0683093
A course supplementary to GER210Y.
This course will continue the work
done in GER210Y. The communicative
skills of the students will be further
enhanced by a variety of exercises in oral
and written composition around current
topics of interest. Much emphasis will be
given to the needs of individual students
and their aspirations towards bilingualism.
Exclusion: GER101, GER311
College: Winter Day
H. Wittmann
Offered every year
GER210Y Advanced German
Telephone ID #: 0683106
A continuation of language work done in
GER210Y.
Language exercises will be centered around
different texts. A review of grammar and
vocabulary on an advanced level will reinforce
the students' ability to read, speak, and
translate. Material on current events will be
used as much as possible.
The course intends to further the students' ability
to write and converse in German.
Exclusion: GER204Y, GER101, GER311
Prerequisite: GER210Y and GER210Y
College: Winter Day
U. Lesser-Sherman
Offered every year
GER215S German in Commerce and
Management
Telephone ID #: 0683153
An introduction to business German.
Building on grammar and vocabulary
material already acquired, the course aims to
make students conversant in basic business
situations.
Exclusion: GER205F
Prerequisite: GER100Y and GER200Y or
equivalent
College: Winter Day
U. Lesser-Sherman
Not offered 1994/95
Offered 1995/96
GER217F Intermediate Modern Greek
GER214S Advanced Modern Greek
GER225Y Images of Modern Greece:
1910 to the Present
GER230-36F Supervised Reading
GER246Y For further information see under
Classical Studies.
Courses in Classical Greek are no longer
offered on the Scarborough Campus
Greek and Roman History
GER460YV The Roman World
For further information see under Classical
Studies.
History
Discipline Representative: A. N. Staples
(387-7133)
The study of history is intended to enhance
our understanding of human society by
examining the experiences of particular
peoples and their societies in the past.
Its findings depend upon the precise evaluation
of specific evidence. History's concerns and
goals are humanistic; in its methods draw from
all forms of scholarly endeavor. History courses,
therefore, can play a part in a number of interdisciplinary
programs and can serve as an adjunct to courses in
Politics, Philosophy, Literature, Economics, and Sociology.
History can also be useful combined with language
study.
The History curriculum combines a
variety of approaches and teaching in order
to satisfy a number of purposes. HISTORY provides
both a general introduction to the
study of history at the university level, and
the preparation for further studies in
European history. HIS402S is a general
interest course. A series of survey courses
HIS302-09) provides a comprehensive
foundation of knowledge in their particular
areas, and also serves as preparation for
more detailed and advanced studies. In
upper-level courses students investigate
more specific areas, periods, or problems.
D-series courses are conducted as seminars.
In them students make close and thorough
studies of particular questions and present
their findings in discussions and major
essays. There are sequences of courses at all
levels in the following areas: Medieval
European, Modern European, British,
American, Canadian, Russian, and Ancient
Greek and Roman.
Specialist Programme in History
Supervisor: W. M. Dick (287-7144)
1 Number of Course
Students must complete ten full-course
equivalents in History (HIS or GRT).
Three ten must include HIS10Y and
five upper-level full-course equivalents
(300-399 level courses on the Scarborough
Campus, 300-400 level courses on the St.
George Campus; at least two of the
five must be a 400-level course).
In addition, students must complete
two full-course equivalents in
disciplines other than History.
Students are encouraged to follow a
sequence of language courses in
fulfillment of this requirement.
2 Pre-1815 Courses
Of the at least two full-course
equivalents must deal with the period
prior to 1815. All CHR courses and as
indicated in the HIS course
descriptions).
3 Areas of Study
Students are also required to take
courses in at least three different
areas as indicated in the course
descriptions. Among the five upper-level full-course
equivalents at least two courses must
be within one area (one and one-half full-
course equivalents may meet this requirement.

Major Program in History

Supervisor: W. M. Dick (287-7144)

1 Number of Courses

Students must complete seven full-course equivalents in History (HIS or GRH). These seven must include HIS303Y and either upper-level course(s)/level courses on the Scarborough Campus, 300/400-level courses on the St. George Campus.

2 Pre-1815 Course

Of the seven at least one full-course equivalent must deal with the period prior to 1815 (All GRH courses and as indicated in the HIS course descriptions).

3 Areas of Study

Students are also required to take courses in at least two different areas as indicated in the course descriptions.

Minor Program in History

Supervisor: W. M. Dick (287-7144)

Students must complete four full courses or the equivalent in History, of which at least one full course (or two half courses) must be at the C- and/or D-level.

Note: Students are advised to consult the prerequisites for C-level and D-level courses when planning their individual programs.

HIS401Y The European World: An Introduction to History

Telephone ID: 07531063

A survey of European history from the Middle Ages to the present. The course examines the most prominent changes in social and economic organization, in thought, and in politics, as Europe developed from a feudal and agrarian to a modern and industrial order. The teaching method is by lecture and tutorial. A set of readings from primary and secondary sources will be assigned, but further reading by the student is essential. Exclusions: HSI105, HIS109 0.5 Pre-1815 credit

European Area

Session: Winter Day J. Pearl, M. Erotische

Offered 1994/95 and 1995/96

HIS402Y Britain from the Eighteenth Century to the Present

Telephone ID: 07520263

An examination of the political, social, economic, and religious forces which transformed an aristocratic society into an industrial power, and of the reasons for the decline of British power in the twentieth century.

The course will be concerned with the problems caused by the transformation of an agrarian into a highly industrialized economy, of an aristocratic into a liberal democratic society, and of a society based on the ideology of the Enlightenment into one committed to that of egalitarian humanism. It will also consider why, in the twentieth century, the British abandoned their imperial role and concentrated on the establishment of a welfare state. Two lectures per week.

Exclusion: HIS239

British Area

Session: Winter Day F. Iacovetta

Offered 1994/95 and 1995/96

HIS403Y History of the United States

Telephone ID: 07531063

Major themes from the Revolution to the present.

The course will focus on such questions as independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, progressivism, and the United States as a world power. Two lectures per week.

Exclusion: HIS271

American Area

Session: Winter Day A. N. Sheehy, W. M. Dick

Offered 1994/95 and 1995/96

HIS404Y Introduction to Canadian History

Telephone ID: 07520463

An introduction to the history of Canada from the first European contacts to the present. Topics studied include: exploration and settlement; the institutions and life of New France; the British Conquest and its results; the impact of the American Revolution on British North America; development of the British colonies in North America; the confederation movement; the political, economic, social, and cultural history of the new nation-established in 1867. Two lectures per week.

Exclusion: HIS280, 261, 262, 263

Canadian Area

Session: Winter Day. Summer Evening F. Iacovetta

Offered 1994/95 and 1995/95

HIS605Y Europe in the Middle Ages

Telephone ID: 07531063

A chronological survey of economic, political, religious, and social developments in Western Europe (excluding Britain) from the late Roman period to the fifteenth century.

The object of this course is to familiarize students with the foundations of Western society as they evolved in conjunction with the early settlement, colonization, and subsequent expansion of Europe. Particular attention is paid to the peculiar circumstances which determined national boundaries and which led to the division and conflicts of the modern world, and (ii) to the origin and development of our own religious, legal, educational and political institutions. Readings are from P. Brown, The World of Late Antiquity, C. Donohue, Rural Economy and Country Life in the Medieval West: D. H. H., The Medieval Centuries, R. W. Southern, Western Society and the Church in the Middle Ages; and others. Two hours of lectures per week.

Exclusion: HIS220

Pre-1815 credit

Medieval Area

Session: Winter Day TBA

Offered 1994/95 and 1995/96

HIS610Y The Seven Since 1580

Telephone ID: 07531063

An exploration of changing definitions of femininity and masculinity from the Renaissance to the recent past. Topics will include: changes in the expectations for men and women in their domestic, parental, and public roles (with the latter including education, employment, politics, and war); relations between the sexes; feminism and anti-feminism. The focus will be on the sixteenth, seventeenth, eighteenth, and nineteenth centuries. Lectures and discussion: three hours.

Exclusion: HSI101, HSI308

Prerequisite: One of HSI101, HIS202, HIS303, HIS404, or WSTA01 (HIS401) and HIS105

Session: Winter Day L. J. Abrey

Offered 1994/95 and 1995/96

HIS616Y Modern France 1750 to the Present

Telephone ID: 07531063

An exploration of the evolution from agricultural monarchy to industrial republic. Topics will include: the French Revolution and the continuation of the French Revolution tradition, the persistence of social conflict, the French sense of world mission, cultural history, the present state of the Left, Right, parallels and contrasts in the Canadian experiences of nationalism, regionalism, and modernization. Two lectures plus two tutorial per week.

Exclusion: (HIS316)

Prerequisite: HIS105 or permission of instructor.

J. Fee

Session: Winter Day

Not offered 1994/95

Offered 1995/96

HIS618Y Europe in the Enlightenment, 1700-1780

Telephone ID: 07531063

An examination of the ideas of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century.

Emphasis will be placed on the interconnection of thought and practice in the writings and policies of the enlightened despots. In the first term the course will focus on the ideas of the Enlightenment and the social, economic, and intellectual milieu which spawned them. In the second term the impact of the ideas of the Enlightenment will be examined. Lectures and discussions.

Exclusion: HIS181

Prerequisite: HIS101

Pre-1815 credit

European Area

Session: Summer Evening

E. W. Dowlar

Offered 1994/95 and 1995/96

HIS620Y Tudor and Stuart England

Telephone ID: 07531063

England from the end of the Wars of the Roses to the Glorious Revolution, 1485-1688.

The course is given over the course of political, economic, social, and cultural patterns. Special attention will be given to four themes: the powers and personalities of the rulers, Parliament and the role of law; the great religious crisis and its spillover into civil war; the cultural heritage. Two lectures hours and one tutorial per week.

Exclusion: HIS207

Pre-1815 credit

British Area

Session: Winter Day L. J. Abrey

Offered 1994/95 and 1995/96

HIS625Y Advanced full-course equivalent

Offered 1994/95 and 1995/96

HIS626Y The Russian Revolution and After

Telephone ID: 07531063

A survey of the evolution of Russia from czardom to the Soviet Union. Topics will include: the evolution of the czardom; the Russian Revolution; the development of Marxism-Leninism; the evolution of the Soviet Union under Stalin; the specter of totalitarianism. Two lectures per week.

Exclusion: HIS220

Pre-1815 credit

Russian Area

Session: Winter Day L. J. Abrey

Offered 1994/95 and 1995/96

HIS630Y The U.S. from Independence to Reconstruction

Telephone ID: 07531063

An exploration of the evolution from agricultural America to political and social democracy. Topics will include: the growth of the United States to the middle of the nineteenth century, the industrial revolution, the American civil war, reconstruction, and the re-creation of an American nation. Two lectures per week.

Exclusion: HIS220

Pre-1815 credit

American Area

Session: Winter Day L. J. Abrey

Offered 1994/95 and 1995/96

HIS631Y The U.S. from Reconstruction to the Present

Telephone ID: 07531063

An exploration of the evolution from political democracy to the present day. Topics will include: the political and social evolution of America from Reconstruction to the present day, the social and political consequences of the civil war, the evolution of American foreign policy, the influence of economic forces, and the political and social consequences of the New Deal. Two lectures per week.

Exclusion: HIS220

Pre-1815 credit

American Area

Session: Winter Day L. J. Abrey

Offered 1994/95 and 1995/96

HIS635Y The European Union

Telephone ID: 07531063

An exploration of the evolution from agricultural Europe to modern industrial society. Topics will include: the growth of European society from the Middle Ages to the present day, the evolution of European political institutions, the evolution of European economic institutions, and the social and political consequences of European economic development. Two lectures per week.

Exclusion: HIS220

Pre-1815 credit

European Area

Session: Winter Day L. J. Abrey

Offered 1994/95 and 1995/96

HIS640Y The European Union

Telephone ID: 07531063

An exploration of the evolution from agricultural Europe to modern industrial society. Topics will include: the growth of European society from the Middle Ages to the present day, the evolution of European political institutions, the evolution of European economic institutions, and the social and political consequences of European economic development. Two lectures per week.

Exclusion: HIS220

Pre-1815 credit

European Area

Session: Winter Day L. J. Abrey

Offered 1994/95 and 1995/96
HISC15 Slavery in the American South
Telephone ID #: 07533153
An examination of Southern society and slavery from the colonial period to the Civil War. Topics will include the origins and growth of slavery and the plantation, the economies of slavery, race relations, daily life under slavery and Southern political and social structure and ideas.
Exclusion: (HIS331)
Prerequisite: HIS103
American Area
Session: Winter Day
A. Sheps
Not offered 1994/95
Offered 1995/96
HISC35Y Twentieth-Century America
Telephone ID #: 07533563
A topical study of the United States since the turn of the century.
A traditionally rural culture of individual opportunity and national isolationism faces the problems created by urbanization, ethnicity, industrialization, and world power. The tensions created by the appearance of large-scale organization, by the expansion of governmental power, by demands for social justice, and by the changing role of the U.S. in world affairs are the themes of this course. One two-hour session and one tutorial per week.
Exclusion: (HIS335Y) HIS372
Prerequisite: HIS303
American Area
Session: Winter Day
W. M. Dick
Not offered 1994/95
Offered 1995/96
HISC45S Immigrants and Race Relations in Canadian History
Telephone ID #: 07534553
The history of immigrants, immigration policy, and race relations in Canada from the European-Native contact period to the post-World War II era. Organized primarily chronologically and partly by theme, the lectures and reading material will introduce students both to the perspectives and methodologies of the field and to the diversity of the ethnic/social experience in Canada. Immigrants' lives as pioneer farmers, mine workers, fishermen, industrial workers, domestics, entrepreneurs, radicals, and as members of families are considered. The course highlights the experience of such groups as Canada's first peoples, the French-Canadian, West Coast Asian, and continental European, and American and West Indian Blacks.
Prerequisite: HIS204
Session: Winter Day
F. Iacovetta
Not offered 1994/95
Offered 1995/96
HISC46Y Atlantic Canada
Telephone ID #: 07534663
An examination of the Maritime provinces and Newfoundland from the first European contacts to Confederation in each province.
Subjects to be investigated include: native peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loistical impact; colonial economies and social structures; literary and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tension; fisherman's movements in Newfoundland; the coming of Confederation. One two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks. Written work will include two research papers.
Exclusion: (HIS346) HIS468
Prerequisite: HIS204
0.5 Pre-1815 credit
Canadian Area
Session: Winter Day
J. R. Robertson
Offered 1994/95 and 1995/96
HISC47Y The Canadian Left, 1867 to the Present
Telephone ID #: 07534763
An investigation of labour, labour, and socialist movements since Confederation, their role in the changing social structure, and their influence on Canada.
The emphasis will be on the twentieth century, and the course will be made to assess the significance of the international affiliations and the role of the various movements, and to account for the unique character of the Canadian Left. In broad terms, the course objectives are (1) to encourage the study of social classes who have been excluded from the exercise of power in Canada, and to examine the ways in which they have organized to protect their interests; (2) to explore the relationship between social change and popular, reform, radical, and socialist movements. One two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks throughout the year. Written
work will include two research papers.
Exclusion: (HIS347)
Prerequisite: HIS104
Canadian Area
Session: Winter Day
J. R. Robertson
Offered 1994/95
Not offered 1995/96
HISC48F Popular Culture in Early Modern Europe
Telephone ID #: 07534831
An examination of institutions and society in Europe from the fifteenth to the eighteenth century. This course will explore many areas of popular culture, examining how people lived, and especially what they believed in. We will work at popular religion, folklore, and witchcraft, in order to observe the interaction of the world views of different social strata. Two hours of lecture and one tutorial per week.
Exclusion: (HIS316, HIS14)
Prerequisite: HIS401
0.5 Pre-1815 credit
European Area
Session: Winter Day
J. L. Paul
Not offered 1994/95
Offered 1995/96
HISC48Y Germany in the Nineteenth and Twentieth Centuries
Telephone ID #: 07534876
A thematic treatment of German history from the end of the Holy Roman Empire to the present.
The course will concentrate on social, economic, and cultural interpretations of Germany's political experience. Two consecutive hours of lectures and one hour of tutorial per week. A set of readings from primary and secondary sources will be assigned, but extensive further reading is essential.
Exclusion: (HIS417) HIS317
Prerequisite: HIS401
European Area
Session: Winter Evening
M. Weinstein
Offered 1994/95
Not offered 1995/96
HISC49Y Independent Studies
A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field which is of common interest to both student and supervisor and which is not available for study otherwise. Candidates must be a willing supervisor and must submit a written application before the date given below. Students must regularly with the supervisor to discuss progress in their investigation and complete a 12,500-15,000 word paper for a term course and a 15,000-20,000 word paper for a year course.
Exclusion: (HIS414, HIS403, HIS407)
Prerequisite: HIS407
Canadian Area
Session: Winter Day
J. R. Robertson
Offered 1994/95
Not offered 1995/96
HISC108 History of Feminism since the Eighteenth Century
Telephone ID #: 07541033
The ideas and careers of women and men who challenged the roles assigned to women from the French Revolution to the present.
The campaign for equality for women is one of the longest struggles against discrimination in western history. After industrialization feminisms waged a broadening struggle for economic, educational, civil, and political rights. These campaigns, their social contexts, and the ideas of the antifeminists will be studied through examinations of the femninists' own writings and modes of modern scholarship.
Attention will be paid to comparisons between historical and contemporary and between feminism and other campaigns against discrimination.
Prerequisite: HIS101Y
British/European Areas
Session: Winter Day
L. J. Alby
Offered 1994/95 and 1995/96
HISC15Y The Making of Modern Society
Telephone ID #: 07541563
A survey of the internal social history of "ordinary people" from the late eighteenth century to the early twentieth century.
The course discusses how political, population pressure, and industrialization altered pre-industrial society, how early forms of social protest changed into mass organizations, how revolutionary ideas affected ordinary people, and how governments and "governing classes" responded to pressures from below.
The course provides the opportunity for students to re-examine, on a comparative basis, knowledge gained in other courses. Two-hour seminar. Limited enrollment: 15.
Exclusion: (HIS3315) HIS315
Prerequisite: HIS101 and two other courses in post-1815 history, either European or North American.

American/British/European Areas
Session: Winter Day
W. M. Deiss
Not offered 1994/95
Offered 1995/96

HIS237Y European Society and Culture in the Twentieth Century
Telephone ID #: 07541763
An investigation of the impact of war, technology, economic crisis, and totalitarianism on the social condition and mind of Europeans.
Two-hour seminar. Limited enrollment: 15.
Exclusion: (HIS217) HIS218, HIS212
Prerequisite: HIS101 and one B- or C-level course in History

European Area
Session: Winter Day
M. Evertse
Offered 1994/95
Not offered 1995/96

HIS232Y Colonial and Revolutionary
America and the British Empire, 1607-1787
Telephone ID #: 07543203
An examination of the origins of American society and institutions in the seventeenth century and their development in the eighteenth century, the origins, course and effect of the American Revolution and the Constitution and their relation to Western political thought, and the impact of the Revolution on British North America and Britain.
A two-hour weekly seminar, based on suggested readings and class discussion.
Exclusion: HIS324/4/1, HIS470
Prerequisite: Any one of HIS200, HIS203, HIS204 or HIS212 (HIS218)
Pre-1815 credit
American/British Area
Session: Winter Evening
A. N. Sheps
Offered 1994/95 and 1995/96

HIS230Y The Crusades
Telephone ID #: 07542623
An examination of the Crusades of the eleventh through fourteenth centuries. This seminar will consider the Crusades as a continuation of Christianity's centuries-old struggle with paganism, as a form of colonial expansion, and as a papal weapon against heresy and political dissension within Christendom. The movement will be compared and contrasted with the foundation and activities of the military orders, particularly the Hospitaliers, Templars, Teutonic Knights, and associated orders in Spain and northeastern Europe. During the first semester students will read several from the most significant scholars in the field and, in class, compare and contrast the view of viewpoints and interpretations which have arisen since the completion of Gibbon's Decline and Fall of the Roman Empire in 1781. The second semester will be devoted to a similar reading (in translation) and critical analysis of original Western European, Byzantine, Arabic, and Jewish chronicles of the crusading movement. Term papers will concentrate on the careful study of a secondary work and a source not covered in class. Bibliography available from Prof. Michael Gervers.
Exclusion: HIS230Y
Prerequisite: HIS806
Pre-1815 credit
Medieval Area
M. Gervers
Session: Winter Day
Offered 1994/95 and 1995/96

Courses in Classical Studies (see Classical Studies for full course descriptions):

GRK310Y The Roman World
Pre-1815 credit
Ancient Greek and Roman
J. Cochet
Not offered 1994/95

Courses Not Offered in 1993-94

HIS229Y The Twentieth-Century World
Pre-1815 credit
Not offered 1995/96

HIS205Y Rise from the Thirteenth Century to the Present
Exclusion: HIS205
0.5 Pre-1815 credit
Not offered 1995/96

HIS240Y The Sixteenth Century
Religious Reformations
Exclusion: HIS113, HIS323Y
Prerequisite: HIS101Y
0.5 Pre-1815 credit
Not offered 1995/96

HIS211Y France from Reformation to
Revolution
1500-1789
Exclusion: HIS211, HIS349
Prerequisite: HIS101Y
Pre-1815 credit
European Area
Offered 1994/95
Not offered 1995/96

HIS220Y Russia in the World Wars
Not offered 1995/96

HIS230Y Society and Politics in the
United States, 1790-1850
Exclusion: HIS103
Pre-1815 credit
American Area
Offered 1994/95

HIS240Y Canada Between the World Wars
Prerequisite: HIS304
Pre-1815 credit
Canadian Area
Offered 1994/95

HIS279Y Social History of Imperial
Russia, 1700-1900
Exclusion: HIS230Y
Prerequisite: HIS207
Pre-1815 credit
Russian Area
Offered 1994/95
Not offered 1995/96

HIS277Y Social History of
Revolutionary Russia, 1900 to the
Present
Exclusion: HIS207Y
Prerequisite: HIS207Y
Pre-1815 credit
Russian Area
Offered 1994/95 and 1995/96

HIS265Y Revolutionary France, 1780-
1800
Exclusion: HIS201Y
0.5 Pre-1815 credit
European Area
Offered 1994/95
Not offered 1995/96

HIS211Y Crime and Punishment in
Early Modern Europe 1500-
1800
Exclusion: HIS201Y
Prerequisite: HIS201Y
American Area
Offered 1994/95
Not offered 1995/96

HIS245Y Revolutionary America, 1760-
1790
Exclusion: HIS234/HIS312
Prerequisite: Any one of HIS200 or HIS204
0.5 Pre-1815 credit
American Area
Offered 1994/95 and 1995/96

HIS240Y Selected Topics in Canadian
History
Not offered 1994/95

Prerequisite: Any course in Canadian history or HIS207Y or HIS211Y

Humanities 121

Canadian Area
Offered 1994/95
Not offered 1995/96

HIS207Y The Russian Intelligentsia
Exclusion: (HIS278) HIS341, HIS345
Prerequisite: HIS207 or HIS245
Not offered 1994/95

Russian Area
Offered 1994/95
Not offered 1995/96

The History of Ideas

The Major Programme in The History of Ideas is no longer offered, but students currently enrolled in it will be allowed to complete the programme.

Humanities

Discipline Representative: C.V. Posonasoff (G211-71166)

"The study of culture is largely the study of continuities, and it at this sense of continuity rather than of uncontrolled acceptance we hope to impart to our students. We want them to acquire a habit of mind that looks for these continuities not only within the confines of their special field, but in all the manifestations of culture that surround them."
E. H. Gombrich

"Civilization means something more than energy and will and creative power... How can I define it? Well, very shortly, a sense of permanence."
Kenneth Clark

As one of the College's four academic Divisions, Humanities comprises twelve distinct disciplines, such as Classical Studies, English, History, and the Modern Languages. Each of them offers a range of courses in its own area and in its own programme(s) of study. These are listed under the pertinent headings in the Calendar.

In addition, the Division offers, under the rubric HUM, a number of courses which fall outside the purview of the traditional disciplines. These are concerned mainly with culture, civilization, and literature, and all have readings and instruction in English. These courses help establish an
intellectual content in which staff and students can explore new approaches to learning and benefit from a more comparative and interdisciplinary approach to knowledge.

Within this context the Division offers a more general programme than is found in many of the traditional disciplines: The College Programme in Humanities. The requirements for this Programme are set out below, followed by a list of the 100M courses offered this year, several of which may form part of this Programme. A number of individual disciplines also offer courses (in English) in the literature or culture of particular countries. These are relevant to the College Programme in the Humanities but are open equally to all interested students. They are listed after the HUM courses.

College Programme in the Humanities

Supervisor: W. C. Graham (287-7149)

This programme offers what is often called a "Liberal Arts" education. It aims to help students to develop their critical skills and to introduce them to a range of different intellectual approaches, so that they may use these tools in the study of some of the cultural achievements of humankind. Though European culture plays a large role in the programme, students are encouraged to look beyond it to other world cultures. The course structure outlined below is a framework; it is for the student, in consultation with the supervisor, to work out an appropriate context. Nine full-course modules are required, as follows:

1. HUMA01Y
2. HUMA02Y
3. HUMA03Y
4. A full-course equivalent in the Arts:
   DRA, PAR, MYS (any subject)
5. One full-course equivalent in language, literature or linguistics: CLA, DRA, ENG, FRE, GER, GRK, HUM, ITA, LAT, LIN, RUS, SPA
6. A full-course equivalent from:
   ANTHB5, ANTD21, ANTD23, ANT026, ENG020, ENG121, HUM118, HUM119, MUSA13, MUSCI14, POLI391, SOCSCI20, WSC710
7. Two and one-half full-course equivalents in Humanities subjects, at least two of which must be at C- or D-level focusing on one area or theme. (For the purposes of this Programme Mathematics is also considered to be a Humanities subject.)

Choice of courses must be approved by the Supervisor.

HUMA01Y: Philosophies

Telephone ID: 078104163

Twenty books of central importance in Western civilization. A comprehensive chronological programme will be given at the completion of each subset of ten books. There is a one-hour tutorial for each book. The examination will stress the student's ability to relate the books in his or her own way, rather than to remember minute aspects of plot and character. At weekly informal sessions guest leaders will present aspects of each week's work through lectures or other media. Full Term: The Bible (selections); Homer: The Odyssey; Sophocles: Oedipus Rex; Herodotus: Histories; Plato: The Last Days of Socrates; Virgil: Aeneid; Ovid: Metamorphoses; Augustin: Confessions; Dante: Inferno; Cervantes: Don Quixote; Tennyson: Spring Tides; Boccaccio: Decameron; Machiavelli: The Prince; Shakespeare: Hamlet; Shakespeare: The Merchant of Venice. All readings will be in translation.

Exclusion: CLA105
Session: Winter Day

HUMA02Y: Introduction to Literature

Telephone ID: 078202203

An introduction to the understanding and enjoyment of literature through the reading of novels, short stories, plays, and poems drawn from literatures of various countries. The course will be taught jointly by faculty from German and Spanish, and will feature guest lecturers from such disciplines as Classics, English, French, Fine Arts, Music, History, Philosophy and Russian. All readings will be in translation.

Exclusion: LITA001
Session: Winter Day

HUMA03Y: Russian Short Fiction of the 19th and 20th Centuries

Telephone ID: 078206635

A study of significant themes in Russian literature in the 19th and 20th centuries. The course will deal with themes such as the "superfluous man", the Romantic hero and the anti-hero, the modern, and the dehumanization of character.

Exclusion: CLA100, ENG104
Session: Winter Day

HUMA04Y: Composition: An Introduction to Expository Writing

Telephone ID: 078102513

A one-term course in expository writing. It is intended for students who wish to improve their writing. The course is a one-term course, not a course in creative writing. It presumes mastery of basic writing skills. It teaches the organization of arguments, effective sentence structure, and control of tone and diction, through the study of good prose and regular writing assignments. Lectures, discussions of prose specimens, and "workshop" sessions may be supplemented by one-on-one tutorial sessions and by computer-assisted instruction.

A diagnostic test at the beginning of classes will govern admission. Because much of the instruction is of an individual nature, section enrolment is strictly limited and not all students can be accommodated. Enrolment limit: three sections of thirty each. Preference will be given to students in programmes which require it and to new first-year students.

Exclusion: CLA105
Session: Winter Day, Winter Evening, Summer Evening

HUMA05Y: Introduction to Literature

Telephone ID: 078202203

An introduction to the understanding and enjoyment of literature through the reading of novels, short stories, plays, and poems drawn from literatures of various countries. The course will be taught jointly by faculty from German and Spanish, and will feature guest lecturers from such disciplines as Classics, English, French, Fine Arts, Music, History, Philosophy and Russian. All readings will be in translation.

Exclusion: LITA001
Session: Winter Day

H. Wilmuton & P. Lison

HUMA06Y: Russian Short Fiction of the 19th and 20th Centuries

Telephone ID: 078206635

A study of significant themes in Russian literature in the 19th and 20th centuries. The course will deal with themes such as the "superfluous man", the Romantic hero and the anti-hero, the modern, and the dehumanization of character.

Exclusion: CLA100, ENG104
Session: Winter Day

HUMA07Y: Russian Culture

Telephone ID: 078203733

An introduction to Russian culture from the tenth century to the present. The course covers aspects of Russian culture from Religion, Social Anthropology, History, Language, Literature, Music, and the Arts. Films and visual arts will be other aspects of the presentation. No knowledge of Russian language required.

The course makes use of invited speakers (two-hour session per week); tutorials follow each presentation (1 hour per week).

Exclusion: RUSA001
Session: Winter Day

C. V. Popperoff

HUMA109Y: Beyond Consciousness

Telephone ID: 078219333

An examination of the limits of consciousness from the point of view of various disciplines in the Humanities. The specific content will vary but will focus on one or the following: communication, religion and philosophy, myth-making and poetry.

In 1993-94, suggestion and the unconscious will be studied in an interdisciplinary context, with emphasis placed on yoga, music therapy, East-European and Western work in memory training, and communication theory.

Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking the course might wish to consult the following:

The Mind, New Body, Empty Body, Yoga: Immortality and Freedom; and Schneider, Psychic Discoveries Behind the Iron Curtain and Superlearning, Problems of Consciousness. At least one full-course equivalent in the following disciplines: Anthropology, Philosophy or English or another literature course.

Session: Winter Day

W. J. Barclay

HUMA114: First Nations Cultures in North America

Telephone ID: 078215315

A survey of the arts and cultures of the First Nations. The course will cover the traditions of the First Nations including religious beliefs, histories and the arts. The emphasis of this course is to discuss aspects of various First Nations cultures in relation to their contemporary cultural positions. These could include the works of Thompson Highway and performance artist Rebecca Belmore along with discussions of contemporary practices such as "flights and..."
Feathers" at the ROM. The idea of the course is to place traditionalism in relation to contemporary issues.
Session: Winter Day
TRA
Not offered 1994/95
HUMR055 Dance in a Multicultural Society Telephone ID: 0782353
An introduction to dance theory and practice.
This course, using dance, will
investigate the cultural diversity of Canada.
The first few weeks of the course will give a theoretical framework drawing heavily from anthropology and sociology. The final weeks explore in detail dance forms from a number of areas of the world. Dances will be examined both as mentioned to their
Of course, form as well as practiced in North America. Selection of dance forms will depend partly on students' interests. The course will include at least two performances by guest artists.
Session: Summer Evening
TBA
HUMR055 The Spanish Civil War: Fact to Fiction Telephone ID: 0782055
An exploration of the impact of the Spanish Civil War, 1936-39, on the literary imagination within and outside Spain.
This is not a course on the history of the Spanish Civil War but one in which a brief examination of its origins, progress, and aftermath will lead to analysis and discussion of the varying moods of artistic response (prosaic, dramatic, lyrical, documentary) to the military, political, and social realities of the conflict. Authors to be considered will probable include: Ayala, Heningway, Malraux, Orwell, Sender, Spindel et al.
The texts will be read and the course concluded in English in a lecture-tutorial format.
Exclusion: (LIT3B3)
Prerequisite: (LIT3A3) or (ENG3A1)
ENGL111 or FRE2001 (INT355) or one full-course equivalent in literature.
Session: Winter Day
R. Smythe
HUMR450 The Individual and the Totalitarian State Telephone ID: 0782465
An exploration of a crucial experience in our century as reflected in modern fiction...
The course will explore what it is to state in this confrontation, with special emphasis on the philosophy behind totalitarianism, its scope and variety of forms. The novels to be studied will be taken from Russian, German, French, English, and American fiction, and will be read in English.
Session: Winter Day
C. C. Brophy
HUMR050 Introduction to Cinema Telephone ID: 0782055
An introduction to the vocabulary of film criticism, major aesthetic approaches, and general history (client and sound). Tutorials start the first week of classes.
Exclusion: NIN112, NIN112
Session: Winter Day
M. Q. Schonberg
HUMR050 Humanities Seminar Telephone ID: 0782055
A special half-course equivalent seminar course, taken normally after the completion of ten full-course equivalents. Each number of the seminar undertakes an individual project and gives a report on it.
Topic for the seminars should be chosen in consultation with the Co-ordinator. They should build upon work taken in other courses, and should attempt to relate material from two or more disciplines.
Exclusion: HUMR15 (HUMR10)
Prerequisite: Any ten full-course equivalents.
Session: Winter Day
Co-ordinator: W. C. Graham
Offered 1994/95
HUMR111 Arts Seminar Telephone ID: 07831143
A seminar/ performance course combining at least two of: Fine Art Studio, Fine Art History, Drama, Creative Writing and Music.
Students will be bringing a proposal for a project to the supervisor early in the fall term and develop their proposals through the term. They will present their final performance in the spring term. The form of presentation will be determined by the direction of a faculty member. The final student project should bear a significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses.
The student should submit to the Supervisor of the Humanities Programme a statement of objectives and proposed content of a project that should be done by 15 April for F and Y courses and by 1 December for S courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.
Exclusion: (UMC051, C293)
Prerequisite: Three B-level full-course equivalents in
America, myths and religious practices; the Spanish conquest, construction or destruction; the Mexican and Cuban revolutions, a study in contrasts; contemporary Latin American fiction, themes and concerns; and the present day political scene.
No knowledge of the Spanish language is required. Required two-hour lecture/ discussion session per week.
Exclusion: SPA2005 (HUMB14)
Session: Winter Day
P. León
HUMR055 Beyond Nilihkene: Visions of Renewal Telephone ID: 0783555
A study of the writings of Thomas Mann, Albert Camus, and Vladimir Nabokov.
The course explores these authors as they transform their ideas into art, the essay into fiction, and examine their respective visions that affirm and justify human existence, be it in the face of death, immaturity, or the Absurd. The following texts will be read: Thomas Mann's "Der Tod in Venedig" and "Die Zauberflöte," Albert Camus' "La Peste," and Vladimir Nabokov's "Lolita." Lecture and tutorial, three hours a week.
Exclusion: (LIT3B3)
Prerequisite: HUMB10 (LIT150) or (ENG3A1) or (ENG111) or FRE2001 (INT355) or one full-course equivalent in literature.
Session: Winter Day
C. V. Ponomareff
HUMH10 FEMH510 Supervised Readings Telephone ID: 07831143
Independent study of an advanced and intensive kind, under the direction of a faculty member. The material studied should bear a significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses.
The student should submit to the Supervisor of the Humanities Programme a statement of objectives and proposed content of a project that should be done by 15 April for F and Y courses and by 1 December for S courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.
Exclusion: (HUMC051, C293)
Prerequisite: Three B-level full-course equivalents in

Course Offered 1994/95
HUMA6051 Propaganda: East Asia and the Middle East
Offered 1994/95
HUMB10Y Environment and Human Life
The Mediterranean World
HUMB20Y Celtic Mythology and Tradition
HUMB507S The Birth

Individual Study Year
An opportunity for advanced students to spend a year following their own studies under the supervision of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major papers or projects in their chosen areas, and will take oral examinations at the end of the year before appropriate faculty. Those interested in enrolling should contact the Supervisor of Studies.
Exclusion: (HUMC051, C293)
Prerequisite: Permission of the Supervisor of Studies.
Session: Winter Day
Offered 1994/95
DRAD217 Science, Power, and Hall: The Story of Dr. Faustus on Stage Telephone ID: 0402273
A literary examination of the myth of Dr. Faustus, scientist, philosopher, physician, and black magician, which originated in 1587 and has paralleled the development of modern science.
We will examine the popular History of Dr. Johann Faustus (1587), Christopher Marlowe's play The Tragical History of Dr. Faustus (1584), the puppet plays of J. W. Gobert's play Faust (1806-1832), and other works. The focus will be on the literary transcription of the legend of Faust, and on such questions as the relation of faith to knowledge, knowledge to power, power to love. Throughout, close attention will be paid to the changing socio-political and intellectual circumstances, within which the various writers composed their versions of the story.
Exclusion: (LIT1050)
Prerequisite: (LIT150) or (ENG3A1) or (ENG111) or FRE2001 (INT355) or one full-course in literature
H. Olendorf
### International Development Studies

**Major Programmes in International Development Studies**

**Supervisor:** J. Boddy (287-7281)

The dimensions and diversity of problems facing developing countries have involved many academic disciplines. At the Scarborough Campus the Major Programmes in Development Studies is based primarily on existing courses taught by faculty members actively involved in development problems. In organizing the Programme an attempt has been made to provide a core of fundamental knowledge which can be applied in Third World countries. Students may then select additional courses from a broad range of relevant courses at the Scarborough and St. George's Campuses which will allow more specialized thematic or regional concentration. Students enrolling in this Programme are strongly advised to consult with a major professor in a related discipline. The Programme is designed both for students with a broad general interest in developing countries or those with some interest in pursuing a career in development studies. Students in the latter category should seriously consider the more intensive Cooperative Programme in International Development Studies.

**Students must complete:**

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<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>IDEB01Y</td>
<td>Political Economy of International Development</td>
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<tr>
<td>IDEB02F</td>
<td>Development Studies: Physical and Ecological Resource Management</td>
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**Italian**

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<th>Code</th>
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<tr>
<td>IDEB01Y</td>
<td>EconomicAnthropology</td>
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<tr>
<td>IDEB02F</td>
<td>Development Studies: Physical and Ecological Resource Management</td>
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</table>

**Notes:**

The Major Programme in International Development Studies requires a minimum of 12.5 course equivalents from the courses listed above, together with appropriate prerequisites. These normally involve A-level prerequisites in each discipline selected. It is possible to complete the Programme within three years, as shown in Example 1 below. Example 1 (three-year degree)

**First Year:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDEB01Y</td>
<td>EconomicAnthropology</td>
</tr>
<tr>
<td>IDEB02F</td>
<td>Development Studies: Physical and Ecological Resource Management</td>
</tr>
</tbody>
</table>

**Second Year:**

<table>
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<tr>
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</tbody>
</table>

**Third Year:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
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<td>EconomicAnthropology</td>
</tr>
<tr>
<td>IDEB02F</td>
<td>Development Studies: Physical and Ecological Resource Management</td>
</tr>
</tbody>
</table>

**Discipline Representative:** D. McAllister

Scarborough College offers a range of courses on the countries and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITA001A02 or ITA001B. ITA001 (or ITA011) is pre- or co-requisite to all other ITA courses taught in Italian. Students with other types of language preparation should consult the Discipline Representative before choosing their course of study. In all courses, attention is given to spoken as well as
written aspects of the language. Courses offered by other disciplines – may prove directly valuable to students in Italian as adjuncts to their plan of study or as an enrichment of their total programme. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Arts, Music, English, French, Spanish, Humanities, and Management and Economics.

Students enrolled in Italian, especially those who may later wish to enroll in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study. For example, some may wish to take advantage of the Supervised Reading course (ITAD...), or courses offered through the Italian Department on other campuses in order to achieve the necessary breadth required for graduate programmes.

Students are not allowed to take any A-level courses in Italian language while taking or after completing any B-level course in Italian language. Students may be excluded from any course if their knowledge of Italian is deemed by the instructor to exceed the level of the language of that course.

Students in the Major Programmes may satisfy some of their Programme requirements through a Study Abroad Programme, especially that operated by the University of Teramo at Siena.

Major Programme in Italian

Supervisor: J. Campos (287-7180)
The Programme combines the study of language and some aspects of Italian culture and civilization. It has three streams, according to the student's background. Students should complete one full-course equivalent, as follows:

Option A (for students who have no prior knowledge of Italian or its dialects):

1. ITA011Y Introductory Italian
2. ITA0205S Language Practice
3. ITA0205S Conversation II
4. ITA0103S Intermediate I
5. ITA0103S Intermediate II

Language requirements will be waived by the Supervisor for students judged to have advanced knowledge of Italian. Appropriate courses from the disciple's offerings will be reimbursed. Students are strongly advised to discuss their Programme as soon as possible with the Supervisor.

Minor Programme in Italian

Supervisor: D. McAuliffe (287-7168)
Four-full course equivalents, as follows:
1. One and one-half full-course equivalents in elementary Italian language (ITA011Y and ITA0205S, or ITA010Y and ITA0205S)
2. One full-course equivalent in intermediate Italian language (ITA0205Y or ITA020Y)
3. ITA020YS Modern Italy
4. One full-course ITA equivalent at the C-level

ITA02Y Introductory Italian

Telephone # ID: 06011043
An elementary course for students with no knowledge of Italian which must be taken together with ITA020Y. Elements of Italian grammar, with some given to oral practice. Short contemporary texts will be studied.

The aim is to provide a relaxed atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking needed for the corequisite course AO21. The basic Italian textbook is supplemented by dialogues made up by the students and easy readings complementing as early as possible in the course. A programme is also provided in the language laboratory. Students are expected to participate in classroom exercises, hand in written assignments completed outside the classroom, and write monthly tests.

Exclusions: OAC Italian, Grade 13 Italian, ITA01, ITA001, ITA005. Complementary ITA010. It is also recommended that students enrolled in ITA01 and ITA001 take ITA003 concurrently with them in the Spring term.

Session: Winter Day

D. McAuliffe
Offered every year

ITA020Y Intermediate Italian Language Practice

Telephone # ID: 060110243
Practical application of the language structure introduced in ITA001.

As with the corequisite A2, our aim is to provide a relaxed, friendly atmosphere in which to learn basic standard Italian. Class time is devoted entirely to conversing in Italian. At the beginning students are given set dialogues which they practice with one another. As they gain confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest.

Exclusions: OAC Italian, Grade 13 Italian, ITA01, ITA010, ITA110. Complementary: It is strongly recommended that students enrolled in this course take ITA003 concurrently with it.

Session: Winter Day

D. Campos
Offered every year

ITA010Y Intermediate Italian

Telephone # ID: 06020163
Intensive review of grammar, with drills, exercises, and compositions. The course concentrates on explaining and practicing the more difficult parts of Italian grammar. This will alternate with
Italian
reading and discussion of passages of modern Italian prose and poetry. The
student will be asked to prepare written grammar exercises, as well as to write
comments on or summaries of the readings discussed in class. The course will be
conducted in Italian whenever possible. Exclusions: ITA311, ITA152, ITA250,
ITA251, ITA252
Prerequisite: ITA01 or OAC Italian or
Grade 13 Italian
Session: Winter Day
J. Campagna
Offered every year
ITASBIY Dante’s Divine Comedy
Telephone ID: 08532163
A study of the Divine Comedy within the
literary and cultural context of the Middle Ages.
The course introduces students to Dante’s Divine Comedy with specific
reference to the problems, mentality, and
cultural patterns of man in the Middle Ages. The lectures will examine Dante’s
masterpiece against the background of
medieval literature, focusing on a selection of
canons and their significance in terms of
the life and culture of the times. Lectures and
readings will be in English. Students planning
to count this course towards a Programme in Italian should consult the
instructor.
Exclusions: ITAC3NY, ITA321
Session: Winter Day
A. Franchecchi
ITAC04Y Language Practice
Telephone ID: 08650163
An advanced language laboratory focusing on
complex problems of Italian grammar.
This course is designed to give students an opportunity to improve their knowledge
of written and oral Italian at an advanced
level. Specific points of grammar, syntax, and style will be discussed and exemplified
with drills and exercises. Students will be asked to write silent compositions. A
selection of passages by modern Italian
authors will provide the necessary material for stylistic analyses, summaries, and
paraphrases.
Exclusions: ITA320, ITA311, ITA322
Prerequisite: ITA01 or ITA211
Session: Winter Day
A. Franchecchi
ITAC06F Practical Translation
Telephone ID: 08630533
Practice in translating from English to Italian and from Italian to English,
combined with analysis and discussion of a
wide variety of texts in terms of type of
language and style of expression.
Class time is devoted to increasing the
student’s proficiency with high-frequency
structures and vocabulary. Examples of
colloquial, journalistic, literary, technical,
and business expression will be translated and
analyzed.
Exclusions: ITA305, ITA271, ITA371
Prerequisite: ITA01 or ITA211
Session: Winter Day
D. McAuliffe
Offered every year
ITAC715 Italian Cinema
Telephone ID: 08637153
A survey of the development of Italian cinema from World War II to the present.
Films by Bertolucci, Antonioni, Pellini, Pasolini, and other post-war Italian
directors will be shown during the course, which will meet four hours per week.
Besides participating in the discussions, students will be required to write a brief
review of four films, and one end-of-term
essay for which a cinematic project (a short
film plus a scenario) may be submitted.
This course is open both to students with no
previous knowledge of Italian language and
and to specialists in Italian.
Specialists in Italian will be expected to do
their written work in Italian.
Exclusions: HU110B, ITA371
Prerequisite: For those taking the course as
part of a Programme in Italian, ITA01 or
ITA211; for others, none.
Session: Winter Day
J. Campagna
Offered every year
ITAC285 Survey of Italian Literature from
the Emergence of Humanism to the
Nineteenth Century
Telephone ID: 08632353
A historical overview of the main literary movements, masterpieces, and authors
from the beginning of Italian literature to the end of
the seventeenth century.
This course is intended to give the
student a knowledge of the early development of Italian literature in its
historical context as well as to develop the
student’s ability to read the early literary
language of Italy. The passages to be read
and discussed will include selections from
Dante’s Divine Comedy, Petrarch’s Canzoniere,
Boccaccio’s Decameron, Machiavelli’s Prince, Ariosto’s Orlando Furioso,
and Tasso’s Gerusalemme Liberata. Lectures and discussion in Italian. A
tutor will be provided for those
who need additional help with the Italian language.
Exclusion: ITA285
Prerequisite: ITA203 or ITA211
Session: Winter Day
D. McAuliffe
Offered every year
Courses Not Offered in 1990-94
ITASBIY Intermediate Conversation
Corequisite: ITA203 or ITA211
Exclusion: ITA201, ITA252, ITA350, ITA321, ITA252
Prerequisite: ITA211
Corequisite: It is strongly recommended that students enrolled in this course take
ITA303 concurrently with it.
ITA11Y Intermediate Italian II
Exclusion: HU110B, ITA321
Advanced Composition
Exclusion: ITA320, ITA252
Prerequisite: ITA211 or ITA211
Session: Winter Day
A. Franchecchi
Offered every year
ITA285Y The Nineteenth-Century Novel
in Transition
Exclusion: ITA285Y
Prerequisite: ITA203 or ITA321
Session: Winter Day
A. Franchecchi
Offered every year
Language Studies
The following Programmes are offered in Languages:
Specialist Programme in Modern Languages
Supervisor: U. Sherman
The Modern Language Specialist
Programme enables a student to gain a high
degree of fluency in two languages, or in
one language together with a concentration in
Literature. In the case of every
combination, there is a common core for
the Programmes covering one course in
Literature, and a choice from a set of
courses which relate languages to broader
social and historical or cultural areas.
There are ten possible combinations as
follows: French and German, French and
Italian, French and Spanish, German and
Italian, German and Spanish, Italian and
Spanish, French and Linguistics, German
and Linguistics, Italian and Linguistics,
Spanish and Linguistics.
Students in these Programmes may
satisfy some of their Programme requirements through a Study Abroad Programme offered by the University of Toronto at: (French) Aix-en-Provence, (Italian) Siena, and (Spanish) Granada. Students of German may compete for
placement in the summer work programme offered by the Federal Republic of
Germany. For every combination, students must satisfy the following requirements:
1. The courses listed under the Major Programme must include, in any combination:
   - French: SPA101, SPA102, SPA201, SPA204, SPA301
   - Spanish: SPA101, SPA102, SPA201, SPA204, SPA301

   * Students taking HUM141 are not required to take SPA204

   Major Programmes:
   - French:
     1 French or French
     2 FREN310, French, or French
     3 FREN400, French, or French

   Major Programmes in French Language
   Seven full-course equivalents, including:
   1. FREN101, FREN102, one full-course equivalent from the sequence:
      FREN101, FREN102, FREN103
   2. two full-course equivalents from the following:
      FREN201, FREN202, FREN203, FREN204, FREN205, FREN206
   3. two other full-course equivalents in French, one of which may be
      counted from group (2)
   4. Students may include in their Programme a maximum of one supervised reading
      course.

   Major Programmes in German Language
   Seven full-course equivalents as follows:
   1. GER101, Introduction to German
   2. GER102, Language Practice I
   3. GER201, Intermediate German
   4. GER206, Language Practice II
   5. GER207, History of the German Language
   6. GER208, Language in a Literary Context
   7. GER209, European Cultural History
   8. GER210, Advanced German Language

   Major Programmes in Italian
   Seven full-course equivalents, as follows:
   Option A (for students who have no prior knowledge of Italian or its dialects):

   1. ITA101, Italian
   2. ITA102, Italian
   3. ITA201, Intermediate Italian I
   4. ITA202, Intermediate Italian II
   5. ITA203, Introductory Italian
   6. ITA204, Advanced Italian
   7. ITA205, Italian
   8. ITA206, Italian

   Option B (for students with some prior knowledge of Italian or one of its dialects):
   1. ITA101, Italian
   2. ITA102, Italian
   3. ITA201, Intermediate Italian I
   4. ITA202, Intermediate Italian II
   5. ITA203, Language Practice
   6. ITA204, Italian

   Option C (for students with OAC or Grade 13 equivalences):
   1. ITA101, Intermediate I
   2. ITA102, Intermediate II
   3. ITA203, Introduction to Modern and Contemporary Italian
   4. ITA204, Survey of Italian Literature from the Middle Ages to the
      Renaissance
   5. Three full-course ITA equivalents at the B- and C-levels

   Major Programmes in Spanish Language
   Seven full-course equivalents as follows:
   1. SPA101, Introductory Spanish
   2. SPA102, Advanced Spanish
   3. SPA201, Intermediate Spanish
   4. SPA202, Intermediate Spanish
   5. SPA203, Spanish
   6. SPA204, Spanish
   7. SPA205, Spanish
   8. SPA206, Spanish

   Option A (for students who have no prior knowledge of Spanish or its dialects):

   1. SPA101, Spanish
   2. SPA102, Spanish
   3. SPA201, Advanced Spanish
   4. SPA202, Advanced Spanish
   5. SPA203, Advanced Spanish
   6. SPA204, Advanced Spanish
   7. SPA205, Advanced Spanish
   8. SPA206, Advanced Spanish

   Option B (for students with some prior knowledge of Spanish or one of its dialects):
   1. SPA101, Spanish
   2. SPA102, Spanish
   3. SPA201, Intermediate Spanish
   4. SPA202, Intermediate Spanish
   5. SPA203, Intermediate Spanish
   6. SPA204, Intermediate Spanish
   7. SPA205, Intermediate Spanish
   8. SPA206, Intermediate Spanish

   Option C (for students with OAC or Grade 13 equivalences):
   1. SPA101, Intermediate I
   2. SPA102, Intermediate II
   3. SPA203, Introduction to Modern and Contemporary Spanish
   4. SPA204, Survey of Spanish Literature from the Middle Ages to the
      Renaissance
   5. Three full-course SPA equivalents at the B- and C-levels

   Major Programmes in European Studies
   Seven full-course equivalents as follows:
   1. ESP101, Introductory European Studies
   2. ESP102, Advanced European Studies
   3. ESP201, Intermediate European Studies
   4. ESP202, Intermediate European Studies
   5. ESP203, Language Practice
   6. ESP204, European Studies

   Option A (for students who have no prior knowledge of European Studies or its
dialects):

   1. ESP101, European Studies
   2. ESP102, European Studies
   3. ESP201, European Studies
   4. ESP202, European Studies
   5. ESP203, European Studies
   6. ESP204, European Studies
   7. ESP205, European Studies
   8. ESP206, European Studies

   Option B (for students with some prior knowledge of European Studies or one of its
dialects):
   1. ESP101, European Studies
   2. ESP102, European Studies
   3. ESP201, Intermediate European Studies
   4. ESP202, Intermediate European Studies
   5. ESP203, Language Practice
   6. ESP204, European Studies

   Option C (for students with OAC or Grade 13 equivalences):
   1. ESP101, Intermediate I
   2. ESP102, Intermediate II
   3. ESP203, Introduction to Modern and Contemporary European Studies
   4. ESP204, Survey of European Literature from the Middle Ages to the
      Renaissance
   5. Three full-course ESP equivalents at the B- and C-levels

   Major Programmes in History
   Seven full-course equivalents as follows:
   1. HIS101, Introductory History
   2. HIS102, Advanced History
   3. HIS201, Intermediate History I
   4. HIS202, Intermediate History II
   5. HIS203, Language Practice
   6. HIS204, History

   Option A (for students who have no prior knowledge of History or its
dialects):

   1. HIS101, History
   2. HIS102, History
   3. HIS201, Intermediate History I
   4. HIS202, Intermediate History II
   5. HIS203, Language Practice
   6. HIS204, History

   Option B (for students with some prior knowledge of History or one of its
dialects):
   1. HIS101, History
   2. HIS102, History
   3. HIS201, Intermediate History I
   4. HIS202, Intermediate History II
   5. HIS203, Language Practice
   6. HIS204, History

   Option C (for students with OAC or Grade 13 equivalences):
   1. HIS101, Intermediate I
   2. HIS102, Intermediate II
   3. HIS201, Introduction to Modern and Contemporary History
   4. HIS202, Survey of History Literature from the Middle Ages to the
      Renaissance
   5. Three full-course HIS equivalents at the B- and C-levels

   Minor Programmes in Language
   Options are available for students who are not interested in the degree of
   concentration provided by the Major Programme. These options offer coherent
groupings of courses whose focus and language emphasis vary with the different
levels of students’ language preparation.

   Minor Programme in French
   Students should choose four full-course equivalents
   1. FREN101
   2. FREN102
   3. FREN203
   4. FREN204

   Minor Programme in German Language
   Students should choose four full-course equivalents
   1. GER101
   2. GER102
   3. GER201
   4. GER202

   Minor Programme in Italian
   Students should choose four full-course equivalents
   1. ITA101
   2. ITA102
   3. ITA201
   4. ITA202

   Minor Programme in Spanish Language
   Students should choose four full-course equivalents
   1. SPA101
   2. SPA102
   3. SPA201
   4. SPA202

   Minor Programme in European Studies
   Students should choose four full-course equivalents
   1. ESP101
   2. ESP102
   3. ESP201
   4. ESP202

   Minor Programme in History
   Students should choose four full-course equivalents
   1. HIS101
   2. HIS102
   3. HIS201
   4. HIS202
### Linguistics

**Minor Programme in Italian**
- Full-course equivalents in elementary Italian language (ITA001Y and 4001Y, or ITA001Y and ITA003Y)
- One full-course equivalent in intermediate Italian language (ITA001Y or ITA003Y)

**Minor Programme in Spanish**
- One full-course equivalent at the C-level

**Minor Programme in Spanish**
- French Language
- SPA091Y
- SPA092H
- SPA093Y
- SPA150FS (or another half-course in SPA in consultation with supervisor)
- SPAC1Y
- Language and Hispanic Culture
- SPA061Y
- SPA150Y
- SPA153H
- SPA153HS (or another half-course in SPA in consultation with supervisor)
- ILIN149Y

**Minor Programme in Spanish**
- Language and Hispanic Culture: Native Speakers
- SPA061Y
- SPA063Y
- SPA064Y
- SPA150FS
- SPA153H
- SPAC1Y
- SPAC1FS (or another half-course in SPA in consultation with supervisor)

**Students**
- Students who also attend the following programmes:
  - Classical Studies
  - Linguistics

### Linguistics

**Discipline Representative:** R. Smyth (287-7171)

**Linguistics**
- Deals with all possible aspects of language. It has its own theory about the basic structure of language in such core areas as phonetics (what human sounds are possible speech sounds, how are they made and perceived?); phonology (how do sounds combine to form words?); syntax (how do we build sentences?); and semantics (the study of meaning in all its possible forms). Linguistics studies how language changes over time and what forces cause such change.

**Linguists**
- Have interests in common with psychologists (psycho-linguistics - what's the relationship between language and mind? How does a child learn a language, or a second or subsequent language? What can language tell us about how the mind works? What's wrong when language goes wrong?); sociologists (sociolinguistics - what's the relationship between language and society? How does your use of language tell people about your social roles and relations?); anthropologists (ethnolinguistics - what's the relationship between language and culture? What does your use of language tell others about your cultural values?); computer scientists (much of computer language "syntax" is based on that of human language); and students/teachers of languages (a teacher, in particular, has to be keenly aware of the structure of the language she/he is teaching). Ultimately, a strong awareness of language is important, even in seemingly unrelated areas, such as law, where a knowledge of syntactic and semantic is of primary importance.

**Specialised Programme in Linguistics**

**Supervisor:** R. Smyth (287-7171)

**The Specialized Programme in Linguistics:**
- Full-course equivalents (in consultation with supervisor) as follows:
  - 1 ILIN401Y General Linguistics
  - 2 LIN405Y Practical Language Study
  - 3 LIN406F Phonetics and LIN402F Phonology
  - 4 LIN411Y Syntax

**Three further C-level or D-level full-course equivalents in Linguistics:**

**Minor Programme in Linguistics**
- Supervisor: T.B.A.

**The Minor Programme in Linguistics:**
- Four full-course equivalents, as follows:
  - 1 ILIN401Y General Linguistics
  - 2 LIN401Y Practical Language Analysis
  - 3 Two further full-course equivalents in
Linguistics

either LIN or PLI of which at least one must be at the C- or D-level.

LINA05Y General Linguistics: the Theory of Language
Telephone ID #: 20010163
An introduction to the major methods and theories of language analysis, and to the relationships between language and mind, language and culture, and language and society.
Topics such as the following will be covered: sound patterns in languages; word formation; sentence structure; meaning; different varieties of language and social attitudes towards them; how language changes; how children learn language; language and the brain.
Enrollment limited to 55 students per section.
Exclusion: (LINA05Y) LINA10
Session: Winter Day
R. Smyth
Offered every year.

LINA08Y Practical Language Analysis
Telephone ID #: 20020161
Analysis of sound, word and sentence structure in a broad variety of languages of the world. Starting with the techniques of linguistic analysis studied in LIN411 and LINA05Y, students will analyze phonological, morphological, and syntactic data from a representative variety of language types. Problem sets will be distributed in class. Lectures will focus on how to organize data for analysis, how to draw upon general principles of language structure to identify possible solutions, and how to decide which of several competing solutions is best. Implications for different schools of linguistic theory will also be discussed.
Exclusion: (LIN202, LIN216)
Prerequisite: LINA01 (LIN203) or LINA05Y
Session: Winter Day
D. M. Jones
Offered every year.

LINC11Y Syntax: the Study of Sentence Structure
Telephone ID #: 20031162
The principles underlying the formation of sentences.
Students will analyze linguistic data so as to determine the principles and constraints which govern sentence formation and the expression of meaning via sentence structure. Particular attention will be paid to those features of syntax which appear to be universal in languages; a focus of concern will be the ways in which these may be best accounted for in a general theory of syntax. Current theoretical approaches will be studied in detail.
Exclusion: (LINC011) LIN411
Session: Winter Day
R. J. Blustuck
Not offered 1994/95
Offered 1995/96

LINC12F Semantics: The Study of Meaning
Telephone ID #: 20031123
The role of meaning in the structure, function, and use of language.
Topics include lexical (word and idiom) meaning; conveyed vs. literal meaning; the role of real world knowledge and other presuppositions in understanding language; and the relationship between form and content in sentences and larger linguistic units.
Prerequisite: LINC101
Session: Winter Day
R. J. Blustuck
Not offered 1994/95
Offered 1995/96

LINC21F Language and the Sexes
Telephone ID #: 20032853
Ways in which males and females differ in how they use language, and what languages can tell us about how males and females are viewed by their speakers. The first part of the course addresses such questions as: Who talks most? Interrupts more? Uses more forceful language and gestures? Speaks more "correctly"? Particular attention is paid to the significance for behaviour of differences in the relative status of males and females. "Natural" part of the course deals with such matters as expressions used to describe human beings and entities of unknown or no sex; the proposition is confirmed that English and at least some other languages reflect a specifically male perspective on the world.
Limited enrollment: 25
Prerequisite: LINC011Y or WSTA101Y or permission of instructor.
D. M. Jones
Session: Winter Day
Offered 1994/95

PLUC25F Psycholinguistics
Telephone ID #: 34835533
Experimental evidence for theories of how humans produce and understand language, and of how language is represented in the mind.
Topics will include the perception and categorization of sound sounds; retrieval of words from memory during speech and listening; use of grammatical knowledge in planning and understanding sentences; production and comprehension of larger stretches of discourse; and the role of memory systems in language processing.
Exclusion: (PLUC25F) (PLUC15F) (PLUC25S)
Prerequisite: One full-course equivalent in LIN and PSTA01
Session: Winter Day
R. Smyth
Offered 1994/95

PLUC35F Disorders of Speech and Language
Telephone ID #: 34835553
Pathologies of language acquisition and comprehension/production. Topics include the anatomy and physiology of the speech and hearing mechanism, voice disorders (hoarseness, breathiness, dysphonia, abnormal speech), functional articulation disorders, cleft palate, aphasia, apraxia, dysarthria, language delay, language/learning disabilities, mental retardation, hearing and auditory processing disorders, and the identification of pathologies in speakers of other dialects or languages than that of the clinician.
Exclusion: (LIN429, LPC55)
Prerequisite: One full-course equivalent in LIN and PSTA01, and LIN025F or PLUC245 or PLUC35F or permission of instructor.
R. Smyth
Session: Winter Day
Not offered 1994/95

LIN201F Introduction to Language
Telephone ID #: 20030116
An introduction to the major methods and theories of language analysis, and to the relationships between language and mind, language and culture, and language and society.
Topics such as the following will be covered: sound patterns in languages; word formation; sentence structure; meaning; different varieties of language and social attitudes towards them; how language changes; how children learn language; language and the brain.
Enrollment limited to 55 students per section.
Exclusion: (LINA05Y) LINA10
Session: Winter Day
R. Smyth
Offered every year.

Course Not Offered in 1995/96

LIN204S Introduction to Language
Exclusion: LIN200
LIN204A may not be taken by students who have caught LIN200, LIN201, LIN204, LIN205A and LIN204A may not be taken in the same session.
Prerequisite: (LINA05Y) LINA10
Session: Winter Day
R. Smyth
Offered 1994/95

LING03F Sociolinguistics: the Study of Language and Society
Exclusion: (LING114, LINC15, LINC207)
Prerequisite: LIN401 (LIN204), or LIN404 with permission of instructor.

LING09F Phonetics: the Study of Speech Sounds
Exclusion: LIN228
Prerequisite: (LIN401) LINC15
Not offered 1995/96
Offered 1994/95

LING10F Second Language Learning
Prerequisite: One full-course equivalent in LIN
Not offered 1995/96
Offered 1994/95

LING17F Animal Communication and the Nature of Language
Prerequisite: One course as LIN, or PST, or SOC, or ANT, or BIO

LING02S Phonology: Sound Systems of Language
Exclusion: LIN241
Prerequisite: LIN401 or LIN402 or LIN001
Not offered 1995/96
Offered 1994/95

LING06S Language Change
Exclusion: (LING04) LIN404
Prerequisite: LIN401 (LING45)
Not offered 1995/96
Offered 1994/95

LING14S Pragmatics: The Study of Language Use
Prerequisite: LIN412
Not offered 1994/95

PLUC24S Psycholinguistics
Exclusion: (LING115), (PLUC25F) (PLUC25S)
Prerequisite: One full-course equivalent in LIN and PSTA01
Not offered 1995/96
Offered 1994/95

LING20F Second Language Teaching
Prerequisite: LIN401
Not offered 1994/95

LING21Y Investigation of a Language
Exclusion: (LING21)
Prerequisite: LIN401
Offered 1994/95
Management

Chair: Professor Sanford Bruton
The 1990/91 academic calendar year will see the consolidation of a number of important changes introduced in the Management Program at Scarborough College in the previous two years. These changes are guided by our mission statement, which follows:

The Scarborough program in management will provide high-quality preprofessional management education within the context of a liberal arts education for students interested in managerial careers; it will provide introductory education about organizational life for any student enrolled at Scarborough College; and it will develop and support a group of faculty who are actively engaged in research that contributes to the advancement of management knowledge and the quality of instruction.

The first part of the mission statement will be achieved through the specialist programs in Management, which are intended to prepare students for careers in the public or private sectors or in academia. The second part of the mission statement will be achieved through our Introduction to Management course (MOT 202). The third part of the mission statement refers to faculty development initiatives now underway.

The College is now offering the Bachelor of Commerce (B.Com.) degree to students who complete either the Specialist Program in Management and Economics or the Specialist Program in Management and Information Systems.

Admission

Eligibility for the B.A. and B.Com. degrees is limited to students accepted by the University of Toronto. Students completing the Specialist Program in Management at Scarborough College in the Joint Specialist Program in Management and Language will continue their studies at the B.A. level. Our faculty development initiatives have enabled the Scarborough College Management programs to offer a much wider range of elective courses than in previous years. Scarborough College students who wish to take courses at the St. George Campus for which courses are not available at Scarborough should be aware that courses at the St. George Campus do not satisfy requirements in the management programs.

Admissions

Eligibility for the Specialist Program in Management must be completed at the undergraduate level. Students contemplating graduate study would be well advised to include MOT 202 in their undergraduate program. They should also consider strengthening their preparation for graduate work by taking courses in such areas as Economics, Mathematics, Computer Science, Sociology, Psychology and Anthropology.

1. Directly from Secondary School
Up to 80 students will be admitted directly from high school, on the basis of academic achievement in their Grade 12 courses. Students accepted in the Specialist Program in Management must have completed OAC English 1, OAC Calculus, and OAC Algebra/Geometry or Finite Math. In the first year, they will take the courses required for the program in management (and Information Systems, in the case of students with OAC Algebra/Geometry). In order to remain in the programs, students must maintain a GPA of 2.0 or higher after having completed at least 8 credits.

2. At the End of First Year
Applicants for the Specialist Programme in Management must have completed (or be in the process of completing) MTA202 and ECOA02 or ECOA01. Applicants for the Specialist Programme in Management and Economics and the Specialist Programme in Management and Economic Theory must have completed (or be in the process of completing) MTA202, ECOA02, and MATA28 or MATA29. Students who were unable to complete ECOA02 and instead took ECOA01, may be able to enter the B.Com. programme once they have completed calculus. Students should be aware that calculus is required in both of these programmes. The normal course to meet this requirement is MATH2. Students may also meet this requirement by taking both MATH26 (or MATH15 at St. George) and MATH41.

Programmes

There are three Specialist Programmes in Management, which are described below. These programmes are substantially different from the Specialist Programmes offered in the 1991-92 calendar. In addition, the Major Programme in Management is no longer being offered. Students admitted to the Specialist or Major programmes in 1991-92 or earlier will be allowed to complete their programmes as described in the time of admission. Alternatively, they may wish to follow one of the specialist programmes. They should consult with the Supervisor about their choice.

Admissions

Each year a total of 160 students are admitted to the Specialist Programmes. There are three possible ways to be admitted.

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Management (see above). The sixth requirement is waived.

Language requirements consist of five full-course equivalents in one language, made up of A. Basic Language. B. Business Language and C. Civilization, as follows:

**FRENCH**
A. FRE4A09, FREB10, one full-course equivalent from FRE4C01, FRE4C02, FRE4C04, FRE4C05
B. at least one full-course equivalent from FRE4B18, FRE4C18
C. at least one half course from FREB22, FREB23, FREB27, FREB29
D. An additional full course in FRENCH

**GERMAN**
A. GER4A09, GER4A10, GERB10, GERB20, GERC10
B. GERC11
C. GERC01

**ITALIAN**
A. ITA4A01, ITA4A02 or ITA4A11 and ITA4C03, ITA4B01 or ITA4B11, ITA4B03, ITA4C01
B. one half course from ITA4C04, ITA4C08
C. one half course from ITA4A50, ITA4B20, ITA4C71

**SPANISH**
A. SPA4A01, SPA4A02, SPA4B01, SPA4B04, SPA4C01
B. SPA4C02
C. SPA4B15 or HUMC14
* students taking HUMC14 are not required to take SPA4B04

Students must take at least 10 FCEs in Management listed as requirements 1-5 of the Management curriculum plus the Language requirements.

**Specialist Programme in Management and Economics**

Supervisor: T. Lisowicz

This programme is designed to give students a broad exposure to all functional areas of management as well as a solid grounding in economics. Qualitative topics are treated rigorously by means of calculus.

The Programme requires the completion of the following minimum requirements as part of a twenty-course degree:

**NOTE:** A single course may only be used to fulfill one of the following requirements:

1. MGT4A02, MGT4B02, MGT4B03, MGT4B04, MGT4C02, MGT4C03, MGT4D04, MGT4D07
2. at least 0.5 FCE of courses emphasizing management skills, chosen from MGT4C36, MGT4C42, MGT4C54, MGT4D09, MGT4D10, MGT4D11
3. at least 0.5 FCE of courses emphasizing strategic management, chosen from MGT4C10, MGT4C11, MGT4C35, MGT4C36, MGT4C40, MGT4C44, MGT4C59, MGT4D09
4. ECO4A02, ECO4B04, ECO4C08, ECO4B09, and 1 FCE of C-level economics courses
5. MATHA28 or MATHA29 and MATHA41
6. CSCA46
7. Four additional FCEs from courses other than MGT4EC0, to include at least 1 FCE from among a set of Humanities courses which emphasize writing skills, listed as requirement 6 for the Specialist Programme in Management.

**Careers in Accountancy**

The College offers a significant number of courses which have been recognized as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Certified Management Accountants. A brochure describing the various programmes and listing the recognized Scarborough College courses is available from Counselling Services (287-7550).

**MGT4A02 Introduction to Management**

**Telephone ID:** 33510263

Introduction to the process of management (planning, organizing, controlling, and directing), the functional components of profit and nonprofit organizations (accounting, finance, marketing, personnel, etc.) and the organization's role within a broader context, including ethical and societal considerations. This course should be taken before any other MGT courses.

Exclusions: Any other MGT course (except 802 for students in programmes requiring 802 or 802 for students admitted to the Management programme directly from high school)

Prerequisite: None

Session: Winter Day, Winter Evening, Summer Evening

**MGT4B27Y Financial Accounting**

**Telephone ID:** 33520633

Basic theory and concepts which underlie the preparation of financial statements: development of double entry theory and practice; the accounting cycle from the recording of transactions, the presentation of summary data, the preparation of financial statements, and the presentation of financial data. This course provides the building block to management accounting and principles underlying those techniques. Enrolment in this course is limited to students registered in programmes requiring this course.

Exclusions: (MGT4A01) (COM4A01)

Prerequisite: MGT4A02

Students admitted to the Management programme directly from high school or students registered in programmes requiring this course may take MGT4A02 concurrently.

Session: Winter Day, Winter Evening

**MGT4B03 Management Accounting**

**Telephone ID:** 33520633

An introduction to management and cost accounting with an emphasis on the use of accounting information in managerial decision-making. Topics include: patterns of cost behaviour, transfer pricing, budgeting and control systems.

Enrolment is limited to students registered in programmes requiring this course.

Exclusions: MGT4B03, COMP4B01, COMP4B03

Prerequisite: ECO4A02 or ECO4A09 (ECON4A1)

Corequisite: MGT4B02

Sessions: Winter Day, Winter Evening, Summer Evening

**MGT4B27Y Organizational Behaviour**

**Telephone ID:** 33522763

This course is designed to introduce students to the theoretical and practical aspects of managing human behaviour in organizational settings. The course will critically assess organisational behaviour within four interrelated levels of analysis: the overall organization, the individual, groups, and linking processes. Topics covered include leadership, power, communication, stress, motivation, job satisfaction, careers, group dynamics, organizational design and organizational culture. Enrolment is limited to students registered in programmes requiring this course.

Exclusion: (DS5B27Y)

Prerequisite: MGT4A02

Session: Winter Day, Winter Evening, Summer Evening

**MGT4C01Y Intermediate Financial Accounting**

**Telephone ID:** 33530163

An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation. The course builds extensively on the material covered in MGT4B02 and, like its successor, MGT4B03. Potential students should review thoroughly the basic accounting model, preparation of financial statements and account classification prior to the start of the course.

limited enrolment: 60

Exclusion: (COM4C01)

Prerequisites: MGT4B02 and MGT4B03 or (MGT4B01 (COMP4B01))

Corequisite: MGT4A06

Sessions: Winter Day, Winter Evening

**MGT4C08 Principles of Finance**

**Telephone ID:** 33530333

The objective of this course is to provide students with the theories and skills to make optimal corporate financial decisions.
It deals with general approaches for valuing cash flows. Enrollment is limited to students registered in programs requiring this course.
Exclusions: MGTC302 (IC/ECO2)
Prerequisites: MGTC303 (MGTC01) or MGTC0301, ECOH09 or ECOH04
Session: Winter Day, Winter Evening

**MGTC049 Principles of Marketing**
Telephone ID #: 33530493
An introduction to basic concepts and tools of marketing designed to provide students with a conceptual framework for the analysis of marketing problems. The focus is on the nature and scope of marketing in an organizational and societal setting. The subjects include an examination of buyer behavior, market segmentation and target marketing, the basic elements of the marketing mix-product, price, promotion and channel policies, marketing planning, evaluation and control.
Exclusion: COMC204
Prerequisites: MGTC803 or (MGTC801) (COMC801)
Session: Winter Day, Winter Evening, Summer Evening

**MGTC055 Introduction to Marketing Management**
Telephone ID #: 33530553
A pragmatic case and readings oriented approach to develop the analytical skills required of marketing managers. The course is designed to help improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making course recommendations, and defending these recommendations.
Limited enrollment: 60
Exclusion: COMC205
Prerequisites: MGTC803 (COMC804).
Session: Winter Day

**MGTC065 Intermediate Management Accounting**
Telephone ID #: 33530653
An examination of various cost accumulation and performance evaluation systems and decision-making tools. Topics include job and process costing, flexible budgeting, and variance analysis and cost allocations.
Exclusions: MGTC801 (COMC80)1
Prerequisite: MGTC803 (COMC80)
Session: Winter Day, Winter Evening

**MGTC085 Intermediate Finance**
Telephone ID #: 33530853
This course provides a detailed examination of approaches for dealing with financial decisions faced by the corporation. Included are issues such as capital budgeting, leasing, mergers and acquisitions, and alternative financing methods.
Limited enrollment: 60
Exclusions: MGTC205 (IC/ECO2)
Prerequisites: MGTC030, ECOH09 or ECOH01
Session: Winter Day

**MGTC105 Management Control Systems**
Telephone ID #: 33530105
The course objective is to develop a thorough understanding of planning and control systems in organizations, with an emphasis on behavioral implications. Case studies will be used to evaluate control structures and processes with some attention to multinational, service and non-profit organizations.
Limited enrollment: 60
Exclusion: COMC103
Prerequisites: MGTC803 (MGTC801) and MGTC27 (ICS2827)
Session: Winter Day

**MGTC109 Management Information Systems**
Telephone ID #: 33531093
This course is intended to help students understand the information systems that are a critical component of modern organizations. The course covers the technology, design, and application of data processing and information systems, with emphasis on managerial judgement and decision making.
Limited enrollment: 60
Prerequisites: MGTC803 (MGTC801) or (COMC801) and MGTC27 (ICS2827)
Session: Winter Day

**MGTC16 Canadian Income Taxation I**
Telephone ID #: 33531653
This is the first of two courses in Canadian income taxation. It is designed to provide the student with detailed instruction in income taxation as it applies to individuals and small businesses. Current tax laws are applied to practical problems and cases. Topics covered include: employment income, business and property income, and computation of tax for individuals.
Limited enrollment: 60
Exclusion: MGTC15 (COMC15)
Prerequisites: MGTC803 (COMC801) and MGTC30 (COMC30)
Session: Winter Day, Winter Evening, Summer Evening

**MGTC175 Canadian Income Taxation II**
Telephone ID #: 33531753
This course is designed to give the student an understanding of the more complex issues of federal income taxation, by applying current tax law to practical problems and cases. Topics include: computation of corporate taxes, corporate distributions, corporate reorganizations, partnerships, trusts, and individual and corporate tax planning.
Limited enrollment: 60
Exclusion: MGTC15 (COMC15)
Prerequisites: MGTC16
Session: Winter Day, Winter Evening

**MGTC215 Personnel Administration**
Telephone ID #: 33532153
An introduction to the basic concepts, theories and practices of personnel management. Topics include recruitment, selection, training, development, performance appraisal, compensation and human resources planning. Affirmative action, discrimination and equal pay issues will be examined in relation to human rights legislation.
Limited enrollment: 60
Exclusion: COMC225
Prerequisites: MGTC27 (ICS2827)
Session: Winter Day

**MGTC225 Organizational Design**
Telephone ID #: 33532253
This course considers theoretical and design aspects of modern organizations. Various theoretical perspectives will be explored that are used to explain the formal and informal structure of organizations. The course will consider public and private sector organizations. Emphasis will be given to design and implementation of new organizational structures.
Limited enrollment: 60
Exclusion: COMC225
Prerequisites: MGTC27 (ICS2827)
Session: Winter Day

**MGTC265 Comparative Organizational Behavior**
Telephone ID #: 33532653
This course studies the impact on organizational strategies of different environments, discussing, among other questions, differences between nations. The course may also deal with societal attitudes in reference to quality of work life.
Limited enrollment: 60
Exclusion: MGM01
Prerequisites: MGTC27 (ICS2827)
Session: Winter Day

**MGTC280 The Legal Environment of Business**
Telephone ID #: 33532803
An intensive examination of those aspects of the law that most directly affect the operations of a business.
Limited enrollment: 60
Exclusion: COMC300
Prerequisites: Completion of at least ten full-course equivalents including MGTC202 or (MGTC401) (IC/ECO1)
Session: Winter Day, Summer Evening

**MGTC293 Management and Organization in Public Sector**
Telephone ID #: 33532933
Through the analysis of works of fiction dealing with managers in both private and public sector organizations, the course explores the ethical dilemmas, organizational politics and career choices that managers can expect to face.
Limited enrollment: 60
Exclusion: COMC335
Prerequisites: MGTC27 (ICS2827)
Session: Winter Day

**MGTC295 Management Skills**
Telephone ID #: 33532953
This course examines the role of personal management skills in the business world. Students discuss techniques for negotiation, team-building, and effective persuasion. Written, verbal, and non-verbal communication is emphasized by the extensive use of classroom demonstrations, student presentations, and role-playing.
Limited enrollment: 60
Prerequisites: MGTC27 (ICS2827) and MGTC40 (COMC40)
Session: Winter Day, Winter Evening

**MGTC315 Entrepreneurship**
Telephone ID #: 33533153
This course focuses on a practical viewpoint of how case methods, on the skills required and issues, personal, financial, legal, operational, personnel - from start up to maturity. The course should interest those who wish to own, or seek careers with, an entrepreneurial business.
Limited enrollment: 60
Exclusion: MGTC401 (COMC40)
Prerequisites: MGTC402, MGTC27 (ICS2827), MGTC803 or (MGTC801) (COMC801)
Session: Winter Day

**MGTC420 Public Management**
Telephone ID #: 33534203
This course deals with key public sector management processes (priority setting, budgeting, human resources, crisis management) making extensive use of
cases, case studies, and simulations intended to develop the student's management skills.
Limited enrollment: 60
Exclusion: (COMC42)
Prerequisite: MGMT32 (ECOS72), POLA50 (POLA40 or POLA50) or POLA60
Session: Winter Day

MGTO4S International Business Management
Telephone ID #: 3353653
This course deals with problems faced by managers of international business, such as development of a global business strategy, location of operations, dealing with local cultures in marketing and human resource management, and negotiations with host governments.
Limited enrollment: 60
Prerequisites: MGTA02 and MGTB27 (ICEB27)
Session: Winter Evening

MGTO4Y Industrial Relations
Telephone ID #: 3353633
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems; history, philosophy and structure of unionism; labour law; and a collective bargaining simulation exercise.
Limited enrollment: 60
Exclusion: (ICEB34)
Prerequisite: Completion of at least ten full-course equivalents including ECOA02 or ECOB02 (EXCA61).
Session: Winter Evening

MGTO5S Management Ethics
Telephone ID #: 3353593
This course provides students with a set of skills necessary to deal with the ethical problems confronting contemporary managers face.
Increasingly, the marketplace has come to reward -- and government regulators have come to demand -- a sophisticated managerial approach to the ethical problems that arise in all areas of business practice. Topics will include: issues in international business, finance and banking, marketing, advertising, intellectual property rights, environmental policy, predict, and worker safety, new technologies, pay equity and affirmative action, whistle-blowing, and drug testing for employees.
Limited enrollment: 60
Prerequisite: MGTA02
Session: Winter Day

MGTO6S Introduction to Operations Management
Telephone ID #: 3353653
Introduces the student to the design and control problems of systems that transform inputs into output, with emphasis on making major strategic, tactical, and operational decisions in the operations function. The course also covers several Management Science approaches used to solve the associated problems.
Enrolment is limited to students registered in programmes requiring this course.
Prerequisites: ECOA03, ECOB10
Session: Winter Day

MGTO6Y Analytical Methods for Decision Making
Telephone ID #: 3353743
Introduction to Management Science approaches to dealing with decision-making situations, including discussions of problems definition, objectives, constraints, model construction and verification, development of solutions, sensitivity analysis and interpretation.
Topics include: decision analysis, mathematical programming, network methods, dynamic programming and waiting-line models.
Exclusions: MGTC72 (ECOB72) and MGTC73 (COMC73)
Prerequisites: MATA28, ECOB09, ECOB09 (ECOB12)
Session: Winter Day

MGTO7S Operations Management: A Mathematical Approach
Telephone ID #: 3353753
Introduces to the broad scope and major strategic, tactical, and operational decisions in Operations Management.
Topics include: forecasting, long-range capacity planning, location and layout of facilities, aggregate planning, project management, inventory control, and production scheduling.
Exclusions: MGMT30
Prerequisites: MGTC74 or MGTC72 (COMC72) and MGTC73 (COMC73)
Session: Winter Day

MGTO7S Business Management
Telephone ID #: 3354015
A discussion-oriented course, designed to introduce students to the market research process. Alternative data collection, sampling, analysis, and evaluation procedures are discussed. Exploratory, descriptive and experimental research approaches are reviewed. Both theoretical and technical considerations in design and execution of market research are stressed. Instruction involves lectures and class projects including computer analysis.
Limited enrollment: 60
Exclusions: (COMC07)
Prerequisites: MGMT30 (COMC05), ECOB09 (ECOB11) or (ECOB12)
Computer background recommended.
Session: Winter Day or Winter Evening

MGTO8S Strategic Marketing Management
Telephone ID #: 3354053
A capstone management course which integrates conceptual and applied material with a within marketing and between marketing and other disciplines such as finance and organizational behavior through experience rather than instruction. Students manage "firms" in a computer simulated market.
Limited enrollment: 60
Prerequisites: MGTE37, MGTE34
Session: Winter Day

MGTO9P Advanced Operations Management
Telephone ID #: 3354103
This is an advanced course in Management Science and Operations Management. It examines methods for designing, evaluating, and delivering services. Topics include: location of service facilities, allocation of service resources, capacity planning of service systems, workforce scheduling, routing problems, and the Hypercube Model.
Limited enrollment: 60
Prerequisite: MGTC74
Session: Winter Day

MGTO10 Risk Management
Telephone ID #: 3354153
This course covers the use of financial instruments such as futures and options in the management of corporate risk.
Although non-quantitative issues are an important part of the course, students who take it should have a strong quantitative background.
Limited enrollment: 60
Prerequisites: MGTE90, ECOB09 (ECOB12)
Session: Winter Day

MGTO0S Advanced Financial Accounting
Telephone ID #: 3354505
This course covers the use of accounting theory in the context of accounting theory and concepts for a number of areas including intercorporate investments, and foreign currency translation.
Limited enrollment: 60
Exclusion: (COMC10)
Prerequisites: MGMT30 (COMC01)
Session: Winter Evening

MGTO5SF Current Issues in Financial Accounting
Telephone ID #: 3354533
This course is designed to deal with the number of topics in current accounting literature, with particular reference to the standard-setting process and the problems of the development of theories of, and, for accounting. Topics may also include risk-net-profit and government accounting, deferred taxes and pension, and international harmonization issues.
Limited enrollment: 60
Exclusion: (COMC55)
Prerequisite: MGMT30 (COMC01)
Session: Winter Evening

MGTO5Y Current Issues in Management Accounting
Telephone ID #: 3354573
Through a review of current literature and computer simulations, this seminar considers managerial decision making research and new complex cost system design approaches. Other topics may include service sector practices, distribution costing, quality measurement, international developments, and ethical questions.
Limited enrollment: 60
Prerequisite: MGTE08
Session: Winter Evening

MGTO6Y Auditing
Telephone ID #: 3354625
An introduction to the principles and practice of auditing. The course is designed to provide students with a foundation in the theoretical and practical approaches to auditing by emphasizing auditing theory and concepts, with some discussion of audit practices and the legal and professional responsibilities of the auditor.
Limited enrollment: 60
Exclusion: (COMC06)
Prerequisites: MGMT01 (COMC01)
Session: Winter Day

MGTO7Y Investments
Telephone ID #: 3354753
This course introduces students to quantitative financial analysis of major investment problems. The course focuses on investment strategies, security analysis, risk and return characteristics, efficient markets, and portfolio management.
Limited enrollment: 60
Exclusion: (ICEB75)
Prerequisites: MGTE90 or MGTE02 (ICEC01)
Session: Winter Day

MGTO0FS Supervised Reading Course
This course is intended for upper-level students whose interests are not covered in
Mathematics

Discipline Representative: P. Selick (287-7270)
The development of mathematics was
induced by the inherent need to describe and
analyse elements of the physical world as
accurately as possible. Applied
mathematics and statistics are still
concerned with the building of models for
use in real-world contexts. Pure
mathematics is concerned with systems
of axioms and the true statements or theorems
which can be deduced from them. While pure
mathematics is not necessarily initially
motivated by practical considerations, there
are numerous instances where the solution
of problems in other branches of science
has been based upon previously developed
pure mathematical theory. The wide
applicability of both the techniques of the
subject and the method of reasoning
employed suggests that most students could
profit by taking some courses in
mathematics.

Please refer to the Physical Sciences section
of the Calendar for the following
Programmes.

Specialist Programme in Astronomy,
Mathematics and Physics

Specialist Programme in Computer Science
and Mathematics

Specialist Programme in Mathematics

MATH208* Introduction to Optimization
Telephone ID: 28412863
R² as a model space in economics,
constrained functions of one and several
variables, graphs. Derivatives, partial
derivatives, differentials, rules for
differentiation in several variables
including chain rule, higher derivatives.
Exponential and logarithmic, geometric
series, discrete and continuous interest.
One variable optimization: relative and
absolute extremes, graph sketching, word
problems. Matrix algebra, linear equations.
Optimization in several variables. Caster
maps. Lagrange multipliers. Linear
programming. This course is illustrated
throughout by examples drawn from
economics. Students must have a calculator
with memory and the exponential and
logarithmic functions.
Exclusion: MAT262 (MATA27, MATA25),
MAT481, MAT482, MAT483, MAT519.
Prerequisite: OAC Calculus and one of
OAC Algebra and Geometry or OAC Finite
Mathematics
Corequisite: ECOC317 (ECOC318)
Session: Winter Day

NOTE: This course is intended for certain
students in some Management and/or
Economics Programmes. It does not satisfy
the requirements for any Programme in the
Physical Sciences except the Programme
Computer Science for Data Management,
and it may not be used as a prerequisite for
any Further Mathematics course. Students
should consult with the Faculty in
Management and Economics or with
Consulting Services to make sure that
MATH208 is appropriate to their needs.

MATH209 Geometry
Telephone ID: 28412663
An introduction to symmetry. Euclidean
gometry: length, area, volume, congruent,
isometric, symmetry, groups. D. Vancl's
theorem and the platonic solids. Discrete
groups of symmetries: fringes and patterns;
figures, tessellations, crystallography.
This course is intended as an
introduction to geometry. It emphasizes
the interplay between algebra and
gometry. It should be of interest to students
in chemistry, computer science and
physics.
Exclusion: MATH252
Prerequisite: MATH304 or (MATH445)
Corequisite: MATH445 (MATH444)
Session: Winter Day

MATH310 Algebra
Telephone ID: 28423113
Groups: definition and elementary
examples, symmetry groups, matrix
groups, permutation groups. Equivalence
relations, cosets, congruency classes.
Theorems of Lagrange, Cayley, Cauchy.
Galois formula and Sylow theorems. Finite
abelian groups: modular arithmetic,
Euclidean algorithm, iom, gcd,
classification.
Exclusion: MATH244, MATH445
Session: Winter Day

MATH205 Algebra II
Telephone ID: 28432253
Rings: ideals, quotient rings,
homeomorphisms, domains and their fields
of fractions. Euclidean domains and their
arithmetic. Polynomial rings, roots of
polynomials, extension fields. Equations
for modules over a principal ideal domain
with application to finitely
generated abelian groups and normal forms
of matrices.
Exclusion: MATH40, MATH49
Prerequisite: MATH310 or (MATH444)
Session: Winter Day

MATH41F Techniques of the Calculus of
Several Variables
Telephone ID: 28424233
Vector algebra in R³, lines and planes in
R³, complex numbers, matrices,
determinants and linear equations.
Functions of several variables, partial
derivatives, gradient, tangent plane,
Jacobian matrix and chain rule. Taylor
series. Extremal problems. Extreme
problems with constraints and Lagrange
multipliers. Functions of several variables
in cylindrical and spherical coordinates,
law of transformation.
Exclusion: MATH505, MATH510
Prerequisite: MATH209 (MATH207)
Session: Winter Day

MATH325 Techniques of the Calculus of
Several Variables II
Telephone ID: 28424253
Frogs surface. Vector fields in R³,
Divergence and curl. Curves, parametric
representation of curves, path and line
integrals. Surfaces, parametric
representation of surfaces, normal
integrals. Green's, Gauss', and Stokes'
integrals. Introduction to differential
forms, total derivative.
Exclusion: MATH505, MATH510,
Prerequisite: MATH41
Session: Winter Day
MAT454S Introduction to Analysis
Telephone ID #: 2043553
The least upper bound principle for R, limits in R and R^n, continuous functions in one and two variables, space filling curves and nowhere differentiable functions, existence of extrema on closed and bounded sets, mean value theorems and the fundamental theorems of calculus, the Riemann integral.
This course is designed for students whose interest in mathematics has been stimulated by their experience in A25 and A40, and who wish to acquire the analytic techniques which are essential for more advanced work. There will be a fundamental emphasis on rigorous analytical proofs. Exclusion: (MAT271) (MAT255)
Prerequisites: MAT26, MAT204 or (MAT245)
Corequisite: MAT242
Session: Winter Day

MAT570S Introduction to Number Theory
Telephone ID #: 2043753
Some properties of integers, prime numbers, congruences, quadratic residue, Diophantine equations, rational approximation. Three lectures per week. Exclusion: MAT215
Prerequisites: MAT204 or (MAT245)
Session: Winter Day

MAT360S Combinatorics
A brief survey of the field of discrete mathematics with emphasis on problem solving. Elementary counting, generating functions and difference equations, permutations with restrictions, poly counting, graphs, network flow problems, balanced incomplete block designs, incidence structures. Exclusion: MAT264 or (MAT283B) and at least one other B-level course in mathematics or computer science.
Session: Winter Day

MAT456S Galois Theory
Telephone ID #: 2043492
Field extensions, infinite fields, field extensions, algebraic and transcendental field extensions, primitive elements, Galois extensions, review of group theory, the fundamental theorem of Galois theory, calculations and examples, the classical constructions of angle trisection and construction of regular polygons.
Exclusion: MAT250
Prerequisites: MAT362 or (MAT249)
Session: Winter Day

MAT251F Differential Equations I
Telephone ID #: 2043553
Exclusion: MAT256, MAT331, MAT346
Prerequisites: MAT247, MAT249 or (MAT245)
Corequisite: MAT242
Session: Winter Day

MAT252F Real Analysis
Telephone ID #: 2045356
Exclusion: MAT250, (MAT255); MAT238, 350
Prerequisites: MAT262 (MAT249) and (MAT285) or MAT247 and MAT242 or (MAT355).
Session: Winter Day

MAT254F Differential Geometry I
Telephone ID #: 20435433
Exclusion: MAT263
Prerequisites: MAT242 (MAT249) and (MAT285) or MAT242 or (MAT355).
Corequisite: MAT231
Session: Winter Day

MAT256S Differential Equations II
Telephone ID #: 2043553
Exclusion: MAT256, MAT331, MAT346, MAT244, 435
Prerequisite: MAT251 (or MAT251)
Session: Winter Day

Course Not Offered in 1992-94

MAT360S Geometry II
Exclusion: (MAT252);
MAT245, 324, 325
Prerequisite: MAT250

MAT324F Group Theory and Applications for its Applications
Exclusion: (MAT283B) or MAT258 or (MAT231B) and at least one other B-level course in Mathematics or Computer Science.

MAT260F Complex Analysis I
Exclusion: MAT319, 334
Prerequisite: (MAT250) or (MAT251) or MAT242

MAT265S Complex Analysis II
Exclusion: Mat 319
Prerequisite: MAT250

Discipline Representative: Wm. R. Bowen (287-7194)

Music courses on the Scarborough Campus are designed both for students who intend to pursue a career in the arts and for students whose interests are more general. Students who have taken music as a subject at high school or elsewhere will find a selection of historical, theoretical, and practical courses available, while students with no previous musical background can begin musical studies here.
Most of the upper-level courses assume that the student has some ability in reading music of a simple nature, and all continuing students are encouraged to find ways to acquire this skill as soon as possible. All students should consider taking advantage of the various opportunities that exist in the College for practical music making, particularly the series of Supervised Performance Concerts.

Major and Minor Programmes in Music History are offered (see below). Music is also a component of the Specialist Programmes in the Arts and the Specialist Programmes in Arts Administration (see pages 23 and 53).

Major Programmes in Music History
Supervisor: Wm. R. Bowen (287-7194)
Students are required to complete a total of seven full-course equivalents in Music and related areas.
The seven courses will be made up as follows:
1 Music201Y Introduction to Music
Music204F Materials of Music I
Music205S Materials of Music II
2 Four full-course equivalents chosen from MUSIC courses. Two full-course equivalents must be selected from MUSIC100-106; either MUSIC304 or MUSIC304 is required. At least one and one-half courses in this section should be at the C or D level. In exceptional circumstances, students may substitute one or more courses from the Faculty of Music or the Department of Electrical Engineering, but no more than one such course.
3 One additional full-course equivalent in Supervised Performance (MUS21502/2223/21504). Students may count a maximum of one and one-half full-course equivalents in performance or music theory in the requirements of the Major Programme.

Minor Programmes in Music History
Supervisor: Wm. R. Bowen (287-7194)
Students are required to complete a total of four full-course equivalents in Music. The four courses will be made up as follows:
1 Music201Y Introduction to Music
Music204F Materials of Music I
One and one-half full-course equivalents from MUSIC100-106
One other course equivalent from the C or D level

Music201Y Introduction to Music
Telephone ID #: 226106
A study of the basic principles and methods of design, and cultural significance of representative works of Western music from the Middle Ages to the present day.

Through examples draws from a variety
classical music, students are introduced to some of the mysteries of musical composition and given a deeper understanding of how music works. Throughout the course, the students will learn what may be heard in a piece of music and theoretical concepts are kept to a minimum. No previous musical experience is required.
Exclusions: MUS401, MUS402, MUS450
Session: Winter Day
W. Bowers and J. Mayo
Not offered 1994/95
MUS405 Music of the Renaissance
Telephone ID #: 22620433
A study of the music from the early fifteenth century until 1550.
This course concerns the variety of new forms, both sacred and secular, created during the Renaissance period, and the way in which the composers expressed the new spirit of humanism during their compositions.
Prerequisites: MUS301 (MUS310 or equivalent)
Session: Winter Day
W. Bowers
Not offered 1994/95 and 1995/96
Bowers
Not offered 1994/95
MUS410 Music of the Baroque Era
Telephone ID #: 22620533
A study of the music from the early seventeenth century until the death of Bach.
A brief survey of the various factors which led to the breakdown of the late renaissance style, followed by a study of the "two practices" of Monteverdi, Schutz and their contemporaries and the early development of opera and oratorio, with examples taken from the works of Cavalli, Cesti, Lully and Pergolesi. The formation of an idiomatic keyboard style by Frescobaldi, Scarlatti and others is traced and the development of the sonata, concerto and suite is analyzed. The late baroque is represented by the music of Corelli, Bach and Handel, with selected works by these composers studied in detail.
Prerequisites: MUS301 (MUS310 or equivalent)
Session: Winter Day
J. Mayo
Not offered 1994/95 and 1995/96
MUS405 Materials of Music II
Telephone ID #: 22620533
A continuation of MUS405. This course is concerned with the role of materials and techniques in the creation of music. It will cover a variety of topics, including the evolution of musical notation, the development of the instrument, and the use of electronic and computer technologies in music composition.
Prerequisites: MUS301 (MUS310 or equivalent)
Session: Winter Day
J. Mayo
Not offered 1994/95 and 1995/96
MUS405Materials of Music II
Telephone ID #: 22620533
A continuation of MUS405.
Prerequisites: MUS405 (MUS410 or MUS421)
Session: Winter Day
A. Repopov
Offered 1994/95 and 1995/96
involvement with musical nationalism, primitivism, neo-classicism and serialism. Prerequisite: MUSA09 (MUSB07) and one course from the series MUSB01-MUSB06. Session: Winter Day
Wm. R. Bowen
Not offered 1994/95 and 1995/96

Performance Courses

The following performance courses are also available to students on a non-credit basis and are open to all faculty and staff members. Entrance for all participants is by audition. Credit students should preregister but will not be admitted to the course unless granted permission of the Instructor during the first week of classes.

MUSB20H Supervised Performance I - Chorus
Telephone ID #: 22622043
The practical study of a wide range of music from the choral repertoire.

Students work as members of Scarborough College Chorus, a chamber choir which performs compositions drawn from the literature of the Renaissance to the present day. The choir gives public performances in each term.

In addition, credit students may be required to complete works in conjunction with members of the instrumental performance programme. Previous experience is desirable but not essential. The course meets 2 hours per week for rehearsal with MUSB21 and MUSB23.

Prerequisite or Corequisite: Any A-level course in Music, MUSB13, MUSB14, MUSB31, or MUSB32
Session: Winter Day
Wm. R. Bowen and J. Mayo
Offered 1994/95 and 1995/96

MUSB21H Supervised Performance II - Chorus
Telephone ID #: 22622143
A continuation of MUSB20.

Prerequisite: MUSB20
Session: Winter Day
Wm. R. Bowen and J. Mayo
Offered 1994/95 and 1995/96

MUSB22H Supervised Performance I - Instrumental
Telephone ID #: 22622243
The practical study of ensemble performance.

Students work in an ensemble and assume basic competence on the chosen instrument.

Each group will meet for 2 hours per week for rehearsal with MUSB23 and MUSB26.

Prerequisite or Corequisite: Any A-level course in Music, MUSB13, MUSB14, MUSB31, or MUSB32
Session: Winter Day
C. Walter
Offered 1994/95 and 1995/96

MUSB23H Supervised Performance II - Instrumental
Telephone ID #: 22622343
A continuation of MUSB22.

Prerequisite: MUSB22
Session: Winter Day
C. Walter
Offered 1994/95 and 1995/96

MUSB25H Supervised Performance III - Chorus
Telephone ID #: 22622543
A continuation of MUSB21.

Students in this course meet for three hours per week, two hours with students of MUSB20 and MUSB21 and an hour in a seminar. In this seminar, the elements of choral directing and conducting are introduced.

Prerequisite: MUSB21
Session: Winter Day
Wm. R. Bowen and J. Mayo
Offered 1994/95 and 1995/96

MUSB26H Supervised Performance III - Instrumental
Telephone ID #: 22622643
A continuation of MUSB23.

Students in this course meet for three hours per week, two hours with students of MUSB22 and MUSB23 and an hour in a seminar. In this seminar, the elements of instrumental directing and conducting are introduced.

Prerequisite: MUSB23
Session: Winter Day
C. Walter
Offered 1993/94 and 1994/95

MUSD01F MUSD02S MUSD00Y Independent Studies
A directed reading course for students who have demonstrated a high level of academic maturity and competence.

Qualified students will investigate a field of musical scholarship which is of

with the supervisor for consultation and prepare a 5,000-7,500 word paper for a term course or a 10,000-15,000 word paper for a year course. Students who have demonstrated exceptional ability in MUSD09 and MUSB09 may in certain circumstances pursue a course of composition, producing a portfolio of original works in place of the essay.

Prerequisite: At least two full-course equivalents in music at the A- and C-level.

MUSC11FS Beethoven
Prerequisite: MUSA01
(MUSB30)
Not offered 1994/95
Offered 1995/96

Neuroscience

Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques borrowed from constituent disciplines like anatomy, physiology, biochemistry, psychology and pharmacology are being used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neuroscience have also made fundamental contributions in the clinical aspects of neurodysfunction and behaviour.

The Major and Specialist Programmes in Neuroscience are administered jointly by Psychology and Biology and primarily include courses from these disciplines. They have been designed for students who are interested in pursuing graduate or medical training in Neuroscience. The Specialist Programme has a heavy laboratory component and students are encouraged to become actively involved in ongoing research. The subdisciplines represented at Scarborough Campus include: computational neuroscience, neuroanatomy, neuropsychology, neurochemistry, and cell biology (applied to the nervous system).

Specialist Programme in Neuroscience
Supervisor: G. Ivy (Office: S669)
Note: Entry into this Programme is limited to a maximum of 25 students each year and will be based on grades obtained in PSY 101Y, BIOA38Y, and CHMA12Y.

Balloting for acceptance into the Programme will occur in the Spring term. Acceptance at the end of second year is possible depending on availability of space. Students should consult the Supervisor of Studies.

The Programme requires completion of 14-4.5 full-course equivalents. Relevant neuroscience courses from the St. George or Erindale campuses may only be used to satisfy a requirement with the permission of the Supervisor of Studies.

1 All of the following 9.5 full-course equivalents:
154 Neuroscience

CHMA02Y/PSYB07I/S Data Analysis in Psychology

or

STAR22F/S
BIOB17Y
PSYB06F/S Statistical Analysis
Animal Physiology
Brain Mechanisms and Behaviour: I
PSYB05F/S Human Brain and Behaviour
PSYC6F/S Brain Mechanisms and Behaviour: II

5 At least 1.0 full-course equivalent from the following:

- BIOB05Y Genetics
- BIOB23Y Developmental Biology
- BIOB32F/S Vertebrate Morphogenesis
- BIOC20Y Cell Biology (BIOC33F/S)
- BIOC52F/S General Biology of Vertebrates
- BIOC60F/S Evolutionary Biology
- BIOC70F/S Theoretical Foundations of Biology
- BIOD18S Molecular and Classical Cytogenetics

0.5 full-course equivalent from the following:

- MATA26Y Calculus
- PHYA01Y Physics: Dynamics of Classical Systems
- PHYA11F/S Electromagnetism and Solid State Devices
- CSCA02F/S How Computers are Used
- CSCA06F/S Computer Basics
- CSCA57F/S Introduction to Scientific Computing
- CSCA58F/S Introduction to Computing

3 At least 1.5 full-course equivalents from the following with no more than 0.5 full-course equivalent from the supervised study courses:

- PSYD69F/S Current Topics in Psychological Neuropsychology: Mechanisms and Function
- PSYD76F/S Psychology of Aging
- BIOC31FS Invertebrate Neurobiology
- NRCC09 S/C39FS/H Supervised Study in Neuroscience
- NROD98Y Thesis in Neuroscience

4 At least 1.0 full-course equivalent from the following:

- PSYB01F/S Psychological Research Laboratory
- PSYC08F/S Experimental Design in Psychology
- PSYC42F/S Learning Laboratory
- PSYC58F/S Experimental Psychology

BIOC36H Laboratory in Biochemistry
BIOC25F/S Vertebrate Histology: Cells and Tissues
BIOC19F/S Molecular Biology of the Gene

2 Invertebrate Evolution

3 To be completed by the third year of full-time study (or equivalent):

- PSYC64F/S Psychobiology of Sensory Systems and Their Development
- NRCC09 S/C39FS/H Supervised Study in Neuroscience

One of the following courses:

- PSYD60F/S Current Topics in Psychological Neuropsychology: Mechanisms and Function
- PSYD67F/S Psychology of Aging
- BIOC31FS Invertebrate Neurobiology
- PSYD69F/S Current Topics in Psychological Neuropsychology: Mechanisms and Function

Philosophy

Discipline Representative: W. E. Seager (237-7151)

Philosophy consists of a critical analysis of the ideas and concepts fundamental to such major areas of human concern as science, society, religion, morality, and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live. Philosophy originates in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

PHIA01Y is recommended as an introduction to the field of philosophy in general. It is required for all Majors and Specialists in Philosophy. B-level courses are generally specialized in content, but they are open to anyone interested in the topic of the course. All C-level Philosophy courses carry at least a half course pre-requisite in Philosophy.

Course offerings in Philosophy form a two- or three-year cycle: courses not offered in one academic year will normally be available in one of the following years.

155 Philosophy

PSYB07I/S Data Analysis in Psychology

or

STAR22F/S
PSYB06F/S Brain Mechanisms and Behaviour: I
PSYB05F/S Human Brain and Behaviour
PSYC61F/S Brain Mechanisms and Behaviour: II

To be completed by the third year of full-time study (or equivalent):

- PSYC64F/S Psychobiology of Sensory Systems and Their Development
- PSYD60F/S Current Topics in Psychological Neuropsychology: Mechanisms and Function
- PSYD67F/S Psychology of Aging
- BIOC31FS Invertebrate Neurobiology

Exclusions: PSYD98, BIOD02 Session: Winter Day
Supervision by a faculty member
areas Full/Spring sequences are offered which, when combined, provide the equivalent of a full course whose first half is at the B-level, and whose second half is at the C-level. Courses in a sequence are usually scheduled for the same time slot. The B-series courses are arranged in decade units according to areas within Philosophy, not in order of difficulty, and this arrangement is followed at the C-level (except for seminar courses).

Note to Majors and Specialists:
Many of the philosophy courses can be offered only on a two- or three-year rotation. The courses listed as Not Offered this year are likely to be offered the following year, and some of this year’s offerings will be dropped to make room for them. You should try to plan your programme a year or two ahead to be sure of getting the courses you want. See the Discipline Representative for further information. Wednesday 4-6 p.m. is reserved for the Senior Seminar (PHLD01Y).

Cognate Courses
Philosophy students should seriously consider the advantages of studying a language, especially French, German, Greek, or Latin. A sequence of language courses will give students access to much more philosophical thought in its original language and to many secondary sources not available in English.

There are a variety of courses in Classics, English, Fine Art, History, and Humanities which will help to supplement the Programmes of many students. In particular, students should consider the following courses: HUMA01Y, Prolegomena; HISB01Y, European World; ASTA03Y, Introduction to Astronomy. Such courses provide important intellectual and historical background for the study of Philosophy.

Specialist Programme in Philosophy
Supervisor: W.E. Seager (287-7151)
Students must complete at least fourteen full-course equivalents including:
1 PHLA01Y Fundamental Questions of Philosophy
PHLB01Y Ethics
PHLB02Y Belief, Knowledge, and Truth
PHLB03Y Symbolic Logic
PHLB04Y Formal and Reality
2 Four half-courses from PHLB40Y to PHLC40Y to PHLC40Y

including PHLD01Y, Senior Seminar.

4 Three additional full-course equivalents in Philosophy courses.

5 Two full-course equivalents from cognate courses in other disciplines agreed upon after consultation with the Supervisor. Students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

Major Programme in Philosophy
Supervisor: W.E. Seager (287-7151)
Students must complete at least seven full-course equivalents in Philosophy including:
1 PHLA01Y Fundamental Questions of Philosophy
2 Two of the following half-courses:
   - PHLB01Y Ethics
   - PHLB03Y Belief, Knowledge and Truth
2 PHLB05Y Symbolic Logic
   - PHLB06Y Existence and Reality
3 Two half-courses from PHLB40Y to PHLB48Y, and PHLC40Y to PHLC48Y
4 Two full-course equivalents in C-level or D-level Philosophy courses.
5 Two additional full-course equivalents in Philosophy courses.

NOTE:
In certain cases students combining a Major Programme in Philosophy with a Programme in another discipline may elect to modify the Major Programme. Students electing modifications must have the approval of the Supervisor.

PHLA01Y Fundamental Questions of Philosophy
Telephone ID #: 24510163
A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

Some of the world’s major philosophers will be studied with a view to answering these and other basic questions which have confronted us throughout history.

The course will be divided into the following lecture sections: 1L1, 1L2, 1L3, 1L4. The problems addressed are substantially the same in each section, although the readings and approach may vary from section to section, depending on the instructor.

PHLB01F Ethics I
Telephone ID #: 24520133
A study of philosophical problems and issues in ethics, such as: the nature of values, the justification of moral, moral skepticism, ethical egoism, utilitarianism, deontological moral views. Exclusion: PHLB25, 276
Session: Winter Day
H. Sobel
Offered 1995/96

PHLB03S Philosophy of Art
Telephone ID #: 24520353
What is art? We will examine theories of the nature of art together with critiques of each of these theories. Our exploration will begin with theories from ancient Greece and will conclude with contemporary theories, and will include an examination of theories which proclaim that “art is dead.” Students should be prepared to participate in some field trips as we spend some time outside the classroom becoming acquainted with various arts
Session: Winter Day
S. Sedivy
Offered every year

PHLB05F Social Issues
Telephone ID #: 24520533
An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations (homosexuality, adultery, etc.), eugenics, ecology, civil disobedience, policies towards the Third World and towards the poor.
Exclusion: PHLB28
Session: Winter Day
TBA

PHLB13F Philosophy and Feminism
Telephone ID #: 24521333
Study and discussion of a variety of issues in contemporary feminist philosophy, such as: questions of inclusion and exclusion in feminist theory (race, class, sexual orientation, disability, etc.); the masculinization of the rational; causes of women’s oppression; epistemological questions, questions of methodology.
Session: Winter Day
L. Lange
Offered every year

PHLB17F Anarchism
Telephone ID #: 24521733
A study of major anarchists and problems of libertarian thought and practice; the impact of anarchism on social and cultural and political thought. Exclusion: IMPB50, PLHB245
Session: Winter Evening
H. Sobel
Goldman, Chomsky, Bookchin and others.

PHLB20F Belief, Knowledge, and Truth
Telephone ID #: 24522033
An examination of such questions as certainty, the problem of skepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.
Exclusion: PHLB20
Session: Winter Day
S. Sedivy
Offered every year

PHLB46F Philosophy of the Early Modern Age
Telephone ID #: 24524633
Philosophy in the seventeenth century. The political, religious, and scientific developments in the sixteenth century upset the medieval reconciliation of faith and reason. In this climate of uncertainty, the philosophers of the seventeenth century try to find a new reconciliation. The course will be a survey of their efforts.
Session: Winter Day
TBA
Offered 1995/96

PHLB48S Philosophy of the Late Modern Age
Telephone ID #: 24524833
A study of the thought of Hegel, Schopenhauer and Nietzsche, Wittgenstein, and other philosophers whose work is fundamental to the age in which we presently live.
Session: Winter Day
TBA
Offered 1995/96

PHLB50F Symbolic Logic I
Telephone ID #: 24525033
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.

The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lectures. The text is D. Kalish, R. Montague and G. Mar, Logic: Techniques of Formal Reasoning. Exclusion: IMPB50, PLHB245
Session: Winter Evening
H. Sobel
PHLC40F Plato II
Telephone ID: 24534033
A continuation of PHLC40.
Prerequisite: At least one-half course in Philosophy.
Session: Winter Day
TBA
Offered 1995/96

PHLC42S Aristotle II
Telephone ID: 24534253
A continuation of PHLC42H.
Exclusion: (PHLC43)
Prerequisite: At least one-half course in
Philosophy
Session: Winter Evening
W. Graham
Offered 1995/96

PHLC52S Modal Logic and Probability
Telephone ID: 24535253
An introduction to theories of possibility and necessity, probability, and rational
decision.

The logic of possibility and necessity will be studied: both axiomatic and
natural deduction treatments will be developed. A theory of probability as a measure of
a person's confidence in propositional will be taken up and theories that relate a person's
rational decisions to his preferences and
probable beliefs will be studied.
Exclusion: (PHLC101)
Prerequisite: PHLC50
Session: Winter Day
J.H. Sobel

PHLC85S Seminar in Philosophy: Feminism
Telephone ID: 24538553
Selected themes in the philosophical tradition in dialogue with current issues in
contemporary feminism.
Exclusion: critical discussions of themes from
Plato to Freud which have been used
to subdivide the logical
minimum of women;
theories of how gendered individuals are
created; feminist conceptions of self,
avtomony, ethics, or the state.
Exclusion: PHLC577
Prerequisite: Two B-level half-courses in
Philosophy
Session: Winter Day
L. Lange

PHLC87F Seminar in Philosophy: Topics in
Philosophy and Literature
Telephone ID: 24538733
A detailed description of this course will be available in Spring 1993.
Session: Winter Evening

PHLC915 Seminar in Philosophy: Theories
of Human Nature
Telephone ID: 24539153
An exploration of theories which provide answers
to the question "What is a human
being?". These answers probe the
sorts of concrete definitions to
which we are all accustomed: "Man is a
rational animal," "Man is a
political animal," "Man is inherently
individual." Theories of
human nature bring together considerations from
economics, political philosophy,
metaphysics and philosophy of mind (and so
acquaintance with some subset of these
areas is required). We will study a wide
variety of works, including among others,
Aristotle, Hobbes, Rousseau, Marx and
Fried.
Prerequisite: PHLC01Y and any two of
PHLC01, PHLC10, PHLC15, PHLC20 or
permission of instructor.
Session: Winter Evening
S. Sedivy

PHLC945 Seminar in Philosophy: Locke,
Berkeley, Hume
Telephone ID: 24539453
Details of this course will be announced at a
later date.
Session: Winter Day
J.H. Sobel

PHLD01Y Senior Seminar
Telephone ID: 24540165
A discussion of topical research
interest at the philosophy faculty at
St. Thomas.
The course will focus on 4 or 5 particular papers from a
traditional range of philosophical topics,
such as: metaphysics, ethics,
and political philosophy, epistemology and
value theory. The course is designed to provide
students, particularly not exclusively
specialists, a forum in which they can
participate in current philosophical
research and engage directly with the faculty
in a small group.
Prerequisite: at least six full-course
equivalents in philosophy.
Session: Winter Day
Faculty
Offered every year

PHLD10Y Senior Thesis
Telephone ID: 24541063
An opportunity for you to engage in
philosophical research and to write a major
philosophical essay on a topic approved by
the faculty in Philosophy.

bibiography, to the Programme Supervisor
before the end of the second week of the full
term (ideally, before the end of the previous
spring term). If the topic is approved you
will consult with relevant faculty members
during your work on the thesis. 

The spring term, before submitting the completed thesis for
evaluation, you will present a seminar
paper on your work to fellow students and
staff. The seminar must be held prior to the
final two weeks of classes, and you are
responsible for setting a date for it in
consultation with the Programme
Supervisor. The thesis will be evaluated by
at least two philosophy faculty members.
Prerequisite: you should be completing the
last year of a four year (twenty course)
degree, and have at least six full-course
equivalents in philosophy, at least two at the
C level.
Session: Winter Day
Staff

PHLD95/S
PHLD96/S
PHLD97/S
PHLD98/S
PHLD99Y Independent Studies
These courses are designed for students who wish to engage in advanced-level work on a
well-defined topic. Hence, when requesting permission for these courses, students will be required to provide a written proposal of what he/she expects to achieve in the course, and a tentative bibliography. Students who require assistance should consult with the Programme Supervisor.

Note: Independent studies courses are normally open to Majors and Specialists in Philosophy during their final year of study. Application should be made to the Programme Supervisor, preferably in the preceding term, stating the topic to be pursued in a description of about ten pages. The Supervisor will arrange for the student to be directed by an appropriate member of faculty.
Prerequisite: At least three full-course
equivalents in Philosophy including at least
one at the C-level, permission of Supervisor.
Exclusion: (PHLC50/S)
Session: Winter Day
Staff
Courses Not Offered in 1993-94

PHLB10/F 5
Political Philosophy

PHLB11/F 5
Philosophy of Law

PHLB15/F 5
Philosophy of Education

PHL810/F 5
Exclusion: PHL815

PHL840/F 5
Plato I

PHL842/F 5
Aristotle I

PHL870/F 5
Philosophy of Science

PHLC01/F 5
Ethics II

PHLC45/F 5
Philosophy of the Early Modern Age II

PHLC46/F 5
Philosophy of the Late Modern Age II

PHLC51/F 5
Symbolic Logic II

PHLC54/F 5
Metalogic

PHLC57/F 5
Prerequisite: PHL850

PHLC85/F 5
Incarnation

Physical Sciences Scarborough

Physical Sciences Scarborough is a closely integrated group of specialist programmes emphasizing close coordination among traditional subject areas to educate students with an integrated view of science. Admission to the Physical Sciences Scarborough programme takes place in first year.

The following 15 programmes lie within the Physical Sciences Scarborough group:

Astronomy, Mathematics and Physics
Chemistry
Chemistry and Biochemistry
Computer Science
Computer Science and Mathematics
Computer Science and Physics
Computer Science and Statistics
Co-op Computer Science
Environmental Earth Science
Environmental Science
Environmental Science and Biochemistry
Environmental Chemistry
Mathematics
Mathematics and Statistics
Physical Sciences

Most programmes cover at least two cognate disciplines, and as a result 14 to 17 courses must be specified in a 20 course programme. Introductory courses in Physics and Calculus form a basis for all courses depends on the individual programme, ranging from the mathematically oriented programmes to the one in environmental science. A special first year programme committee will have overall responsibility for the introductory courses, including coordination and workload balancing so that students are not overwhelmed by the transition to University. The progress of students across their Physical Sciences courses will be monitored throughout the year, and counselling will be provided as appropriate.

Students from the various programmes in higher years will take common courses with students in the same year, so that the cohort will retain a common identification. This will provide significant benefits for the students, particularly though encouraging communication across the disciplines involved. Common courses in the final year will serve to integrate the knowledge gained.

Early Teacher Project

The Early Teacher Project is designed to produce future high school teachers of Science and Mathematics. It has been developed in cooperation with the Faculty of Education, University of Toronto. The Physical Sciences Scarborough programmes are designed to lead to Honours Specialist Ontario Teacher Certification in one or more subjects. To participate students must continue to be registered in a Physical Sciences Scarborough Programme and participate in an orientation session in second year. Subsequently these students will work with experienced teachers in classrooms of primary or secondary schools in the third and fourth years. There will also be a workshop/seminar component organized jointly by Scarborough College and the Faculty of Education.

The Early Teacher Project will count for academic credit (though not as part of the 20 course requirement of a degree). Successful completion of the Early Teacher Project, together with a Physical Sciences Scarborough Specialist Programme with a 2.5 GPA standing in the best fifteen full course equivalents will guarantee admission to the Faculty of Education for at least thirty students each year.

Specialist Programme in Astronomy, Mathematics and Physics

Supervisor: C. C. Dyer, M. J. G. Lee

This programme requires 16 full-course units.

pursue a career in teaching or to acquire a broad understanding in these subjects before undertaking a career in government or industry.

First year:

ASTA01Y
Introduction to Astronomy

CSCE57S
Introduction to Scientific Computing

MATA52Y
Linear Algebra

MATA53Y
Calculus

PHYA01Y
Principles of Physics*

Second year:

ASTB50S
Celestial and Classical Mechanics

CSCE585S
Computer Organization

MATH30F
Geometry I

MATH31F
Algebra I

MATH34F
Techniques of the Calculus of Several Variables I

MATH42S
Techniques of the Calculus of Several Variables II

MATH43S
Introduction to Analysis

PHYB21S
Electricity and Magnetism

and either

Third year:

ASTC50F
Structure and Evolution of Astrophysical Bodies

MATC51F
Differential Equations I

MATC52F
Differential Equations II

PHYB22S
Electronics

PHYB23H
Physics Laboratory

PSCC01H
Modern Applications of Classical Science

STAB22F
Statistics

STAB47S
Introduction to Probability

and either

Fourth year:

ASTC51S
Stellar Systems, Galaxies and Cosmology

CSCE50F
Numerical Algebra and Optimization II

CSCE51S
Numerical Approximation

PHYC21F
Classical and Quantum Waves

PHYC22S
Structure of Matter

PSCE01F
Policy Issues

PSCE02S
Current Questions in Mathematics and Science

*PHY110 is not an acceptable substitute.

Specialist Programme in Chemistry and Biochemistry

Supervisor: A. Walker (287-7225)

This programme places greater emphasis on...
study the chemistry of living systems. The Programme requires 16 F.C.E.'s.

Note: Entry to all fourth year Biochemistry courses is by ballot only.

First year:
- BIOA03Y Introduction Biology
- CHMA02Y General Chemistry
- MATA26Y Calculus
- PHYA01Y Principles of Physics*

Second year:
- CHMB11Y Analytical Chemistry I
- CHMB22Y Physical Chemistry I
- CHMB33Y Inorganic Chemistry I
- CHMB44Y Organic Chemistry I
- MATB41F Techniques of the Calculus of Several Variables I
- MATB42S Techniques of the Calculus of Several Variables II

Third year:
- CHMC44Y Organic Chemistry II
- BIOC35Y Biochemistry
- BIOC36H Biochemistry Lab
- and either
- CHMC22F Physical Chemistry II
- CHMC26F Physical Chemistry Lab

or
- CHMC33S Inorganic Chemistry II
- CHMC36S Inorganic Chemistry Lab

Fourth year:
- CHM447H Organic Chemistry of Biological Compounds
- and either
- CHMC447H Bio-organic Chemistry
- or
- BCH424H Bio-organic Mechanisms

1.5 full-course equivalents from:

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<td>Organometallic Catalysis</td>
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<td>CHMD42S</td>
<td>Organic - Physical</td>
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<td>Organic Special Topics</td>
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<td>series</td>
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<td>BCH400</td>
<td>series</td>
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</tbody>
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*PHY110 is not an acceptable substitute.

Specialist Programme in Environmental Chemistry

Supervisor: K. Henderson (287-7215)

This Programme is designed for students interested in problems of our environment and the role that chemistry plays in their causation, detection and solution. This programme requires 15.5 F.C.E.'s.

First year:
- BIOA03Y Introduction Biology
- CHMA02Y General Chemistry
- ESA05F Planet Earth: An Introduction to Geology
- MATA26Y Calculus
- PHYA01Y Principles of Physics*

Second year:
- CHMB11Y Analytical Chemistry I
- CHMB22Y Physical Chemistry I
- CHMB33Y Inorganic Chemistry I
- CHMB44Y Organic Chemistry I
- MATB41F Techniques of the Calculus of Several Variables I
- MATB42S Techniques of the Calculus of Several Variables II

Third year:
- CHMC44Y Organic Chemistry II
- BIOC35Y Biochemistry
- BIOC36H Biochemistry Lab
- and either
- CHMC22F Physical Chemistry II
- CHMC26F Physical Chemistry Lab

or
- CHMC33S Inorganic Chemistry II
- CHMC36S Inorganic Chemistry Lab

Fourth year:
- CHM447H Organic Chemistry of Biological Compounds
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<td>CHMC416H</td>
<td>Separation Science</td>
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<td>CESD02S</td>
<td>Contaminant Hydrogeology</td>
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<td>GLG400H</td>
<td>Environmental Geochemical Analysis</td>
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<td>Policy Issues</td>
</tr>
<tr>
<td>PSCD02S</td>
<td>Current Questions in Mathematics and Science</td>
</tr>
</tbody>
</table>

*PHY110 is not an acceptable substitute.

Specialist Programme in Computer Science and Mathematics

Supervisor: G. Cupit (287-7253)

This Programme provides a broadly based education in computer science. It prepares a student for a professional position in the computer field, and for graduate study in computer science.

First year:
- CSCA0SF Introduction to Computing
- MATA04Y Linear Algebra
- MATA26Y Calculus
- PHYA01Y Principles of Physics*
- or
- PHYA11S Electromagnetism and Solid State Devices

Second year:
- CSB02F File Structures and Data Management
- CSCB38F Discrete Mathematics
- CSCB35F Computer Organization
- MATB41F Techniques of the Calculus of Several Variables I
- MATB42S Techniques of the Calculus of Several Variables II
- MATB43S Introduction to Analysis

Third year:
- CSCC24S Principles of Programming Languages
- CSCC64S Effective and Efficient Computing
- CSCC78F Data Structure and Algorithm Analysis
- STAB22F Statistics
- STAB47S Introduction to Probability Theory and Mathematical Statistics

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<td>Discrete Mathematics</td>
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<td>CSCB35F</td>
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Fourth year:
- CSCB09S Software Tools
- CSCC50F Numerical Algebra and Optimization
- CSCC51S Numerical Approximation, Integration and Ordinary Differential Equations
- CSCC55S Microprocessors

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*PHY110 is not an acceptable substitute.

Specialist Programme in Computer Science and Mathematics

Supervisor: G. Cupit (287-7253)

This Programme provides a broadly based education in computer science and mathematics. It prepares a student for a professional position in the computer field and it is appropriate for students who may wish to pursue a career in teaching or in government and industry. It can also lead to graduate study.

First year:
- CSCA0SF Introduction to Computing
- MATA04Y Linear Algebra
- MATA26Y Calculus
- PHYA01Y Principles of Physics*
- or
- PHYA11S Electromagnetism and Solid State Devices

Second year:
- CSB02F File Structures and Data Management
- CSCB38F Discrete Mathematics
- CSCB35F Computer Organization
- MATB41F Techniques of the Calculus of Several Variables I
- MATB42S Techniques of the Calculus of Several Variables II
- MATB43S Introduction to Analysis

Third year:
- CSCC24S Principles of Programming Languages
- CSCC64S Effective and Efficient Computing
- CSCC78F Data Structure and Algorithm Analysis
- STAB22F Statistics
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<td>CSCC55S</td>
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*PHY110 is not an acceptable substitute.
and two of:
MATC655, CSCC50F, CSCC51S
One other 0.5 course in Computer Science

one of:
MATB70S, C30S, C31F, C32F

PSCD01F Policy Issues
PSCD02S Current Questions in Mathematics and Science

*PHY110 is not an acceptable substitute.

Specialist Programme in Computer Science and Statistics

Supervisor: S. Chawla (287-7252)
The Specialist Programme in Computer Science and Statistics provides a student with the computational and statistical background required in many applications of these fields. The Programme prepares students for employment opportunities in business, government and education and for further graduate study. This Programme is also an option available in the Co-op Computer Science and Physical Sciences Programme. See listing under Co-op.

First year:
CSCA58F Introduction to Computing
MATA04Y Linear Algebra
MATA26Y Calculus
PHYA01Y Principles of Physics*
or
PHYA11S Electromagnetism and Solid State Devices

First or Second Year: CSCB70S-Computer Applications.

Second year:
CSCB28F File Structures and Data Management
CSCB38F Discrete Mathematics
CSCB58S Computer Organization
MATB41F Techniques of the Calculus of Several Variables I
MATB42S Techniques of the Calculus of Several Variables II
MATB43S Introduction to Analysis
STAB22F Statistics
STAB47S Introduction to Probability Theory and Mathematical Statistics

Third year:
CSCC24S Principles of Programming Languages
CSCC64S Effective and Efficient

STAC42S, STAC52S, STAC67F
or
STAC57S, STAC62F, STAC67F

1 half course to be taken from C level STA courses at Scarborough, CSCS45F, and 300 and 400 level STA courses on the St. George campus.

Fourth year:
CSCS50F Numerical Algebra and Optimization
CSCS51S Numerical Approximation, Integration and Ordinary Differential Equations
STAC42S, STAC52S, STAC67F
or
STAC57S, STAC62F, STAC67F

PSCD01F Policy Issues
PSCD02S Current Questions in Mathematics and Science

*PHY110 is not an acceptable substitute.

Specialist Programme in Computer Science and Physics

Supervisor: C. C. Dyer
This Programme is also available as an option in the Co-op Computer Science and Physical Sciences Programme. See listing under Co-op.

First year:
CSCA58F Introduction to Computing
MATA04Y Linear Algebra
MATA26Y Calculus
PHYA01Y Principles of Physics*
or
PHYA11S Electromagnetism and Solid State Devices

First or Second Year: CSCB70S-Computer Applications.

Second year:
CSCB28F File Structures and Data Management
CSCB38F Discrete Mathematics
CSCB58S Computer Organization
MATB41F Techniques of the Calculus of Several Variables I
MATB42S Techniques of the Calculus of Several Variables II
MATB43S Introduction to Analysis
STAB22F Statistics
STAB47S Introduction to Probability Theory and Mathematical Statistics

Third year:
CSCC24S Principles of Programming Languages
CSCC64S Effective and Efficient

PHYB21S Electronics
PHYB22S Physics Laboratory

Admissions to the Programme
a. Applicants from Grade 13/OAC programmes (or equivalent) should indicate their choice of concentration for admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme.  
b. From first-year University: Students accepted by the University and College can apply whether or not they have completed their first year curriculum. The timing of their work placement will depend upon the particular university courses they have already completed.
Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview may be required. Enrolment is limited and only a small number of applicants can be accepted each year. Decisions about admission are normally made annually in May and early June. To be considered for the first round of selection, co-op applications must be received by April 30, 1998. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date.

Fees: Every student in a co-operative programme is required to pay additional fees as established by the University.

The Specialist (Co-operative) Programme in Computer Science and Physical Sciences

This programme requires twenty courses (four years) and two terms of four months each. Exceptionally, with the agreement of the director and co-ordinator, a third work term may be allowed. Students are eligible for their first term work after their first two years of study. Work placements are arranged by the Office of Co-operative Programmes but must be won by students in competition with all applicants for the position.

Performance on work terms will be evaluated by both employer and co-ordinator. Students must also submit for evaluation a report for each work term.

To maintain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation a student must:
- maintain a cumulative grade point average of at least 2.50
- receive a satisfactory evaluation for work term performance and work term reports
- be registered as a full-time student during study terms.
Specialist Co-operative Programme in Environmental Science

(With permission of the Governing Council)

Director: H. Wittman
Supervisor of Studies: T. Price (287-7327)

The Co-operative Programme has a strong basis in fundamental sciences such as Physics, Mathematics and Chemistry, but emphasizes environmental disciplines such as Biology, Geography and Geology. The programme is interdisciplinary in nature and includes courses in other relevant disciplines, such as Environmental Economics and Environmental Law. One of the major thrusts of the programme is the importance of fieldwork and practical experience. Many of the academic courses reflect this, using strong field components; some are entirely in the field. As an extension of this, the Co-operative Programme placements will assure the necessary practical experience. There are obvious linkages between the Co-operative Environmental Science programme and other Co-operative programmes such as the International Development Studies programme: the linkages between development and environmental issues are already generally acknowledged. The overall purpose of the programme is to provide education and training which will produce highly qualified scientists with good practical and field experience through course work and placement, with a view to employment in research, teaching, consultancy, government agency or regulatory work.

This programme provides both the formal academic material and practical work experience through terms following completion of second year, and completion of third year. The work study terms, during the two summer terms, are intended to provide actual experience in the field of environmental science in placements that are judged to be supportive of the student's participation in the Programme. Refer to Specialist Programme in Environmental Science for course programme details.

Admission to the Programme

Applications may apply to the programme directly from secondary school or may apply as transfer students from college or first year university. The timing of work placements for students who receive transfer special code for this Scarborough Campus programme on the Application Form. Once the University of Ontario is notified of the application, candidates are sent an additional co-op application form to complete. This co-op application must be received by the Scarborough College Registrar's Office no later than April 15, 1994, to ensure an applicant's consideration. In order to allow sufficient time for processing, it is therefore important that the applicant apply the University of Toronto by March 1.

Note that enrolment in the programme is limited. Admission is considered on the basis of the applicant's academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview is required.

Fees

Every student in a co-operative programme is required to pay additional fees as established by the University of Toronto.

Specialist Programme in Environmental Science

(With permission of the Governing Council)

Supervisor: T. Price (287-7327)

This programme is a response to strong student interest, and also to the new attitudes and demands of society. It has a strong basis in fundamental sciences such as Physics, Mathematics and Chemistry, but emphasizes environmental disciplines such as Biology, Geography and Geology. The programme is interdisciplinary in nature, and as its "mainstream" content includes courses in other relevant disciplines, such as Environmental Economics and Environmental Law. One of the major emphases of the programme is the importance of fieldwork and practical experience. Many of the courses reflect this, using strong field components; some are entirely in the field. There are obvious linkages between the Environmental Science programme and other programmes such as the International Development Studies programme; the linkages between development and environmental issues are already generally acknowledged. The overall purpose of the programme is to provide education and training which will produce highly qualified scientists with good practical and field experience.
# Year I: Baseline Studies in Environmental Science

**First year:**

- CHMA02Y General Chemistry
- EESB01F Introduction to Physical Geography
- EESB02S Life on Earth: Introductory Biology for Environmental Scientists*
- EESB03F Planet Earth: An Introduction to Geology
- MATA26Y Calculus
- PHYA10F Dynamics of Classical Systems

**Elective:** 1.2 F.C.E.

**IL:**

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<td>BIOP03F</td>
<td>Field Course in Ecology</td>
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<td>BOD15F</td>
<td>River Ecology</td>
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<tr>
<td>BIOP16F</td>
<td>Marine Biology - Habitats and Communities</td>
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<td>BIOP46H</td>
<td>Plant Population Ecology</td>
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**Elective Suggestions:** 1 F.C.E.

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<td>ANTC41H</td>
<td>Human Adaptability I</td>
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<td>BIOC60H</td>
<td>Evolutionary Biology</td>
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<td>HUMB01Y</td>
<td>Environment and Human Life</td>
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# Year IV: Environmental Systems and Issues

**Fourth Year:**

- EESD01F Environmental Economics and Law
- EESD01S Research Seminar in Earth and Environmental Science Policy Issues in Mathematics and Science
- EESD02S Vertebrate Morphogenesis
- ECOB18S Microbes in the Environment
- BIOC29F Invertebrate Zoology
- BIOC30S The Arthropoda
- BIOC52F Animal Behaviour
- BIOC65S Conservation Biology
- BIOC68S Environmental Toxicology
- BIOC72F Theoretical Foundations of Biology I
- BIOC71S Theoretical Foundations of Biology II
- EESD02S Contaminant Hydrogeology
- EESD03S Theoretical Geophysical Models
- EESD04S Sedimentary Models
- EESD05H Hillslope Geomorphology
- EESD06F Climatic Change
- EESD07F Field Camp I: Western Plains and Rocky Mountains
- EESD08F Urban Geography of Metropolitan Toronto
- EESD09H Paleoenvironmental Determination
- EDCI10Y Research Project
- EEDS11S Hydrological Processes and Modelling
- EEDS12F Environmental Geophysics

# Year II: An Introduction to Environmental Systems

**Second Year:**

- BIOB12Y Fundamentals of Ecology
- CHMB55H Environmental Chemistry
- EEBD01S Principles of Stratigraphy and Sedimentology
- EEBD02F General Geomorphology
- EEBD03S Principles of Climatology
- EEBD04F Hydrology: Measurement, Estimation and Forecasting
- STAB22F Statistics

**Elective:** 1.2 F.C.E.

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# Year III: Environmental Systems

**Third Year:**

- GORC41F Environmental Impact Assessment
- EESB05F Introduction to Soil Science
- EESD03S Remote Sensing and Geographic Information Systems
- EESD04H Biogeography and Diversity

**Plus 1 F.C.E. from each of the following two subsets:**

**A:**

- EESB06S Field Camp I
- EESB09H Coastal Geomorphology
- EESD06H Quaternary Environments
- EESD07F Exploration Techniques in Hydrogeology

**B:**

- EESD09H Paleo-environmental Determination
- EEDS10Y Research Project
- EEDS11S Hydrology: Physical Processes and Modelling
- EEDS12F Environmental Geophysics

**Elective:** 1.5 F.C.E.

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**Specialist Programme in Environmental Earth Science**

**Supervisor:** N. Eyles (287-7231)

There is an escalating demand in industry, education and government for graduates with an environmental geology training. The Environmental Earth Science Specialist Programme provides students with a comprehensive multidisciplinary background necessary to understand and work with current environmental problems. The programme specifies 15.5 of the 20 courses required for a four-year degree, drawing on expertise and facilities both on the Scarborough and St. George Campuses. The programme includes two field courses, each of two weeks duration, taken at the end of the second and third years. These will familiarize students with field techniques in a wide range of geological environments. Locations vary; in recent years field camps have been held in Costa Rica and the Rocky Mountains of Alberta and British Columbia. Several other courses in the Environmental Earth Science Programme form a local fieldwork component concerned with environmental problems in the Toronto area.

**First year:**

- BIOA03Y Introductory Biology
- CHMA02Y General Chemistry
- EESB03F Planet Earth: An Introduction to Earth Science.
- MATA26Y Calculus
- PHYA01Y Principles of Physics*

**Second year:**

- CHMB11Y Analytical Chemistry I
- CHMB22Y Physical Chemistry I
- EESB01S Stratigraphy and Sedimentology
- EESB02F General Geomorphology

**Third year:**

- CHMB40Y Organic Chemistry I
- GLG322F Structural Geology
- GLG318F Petrology I
- GLG319S Petrology II
- GLG400H Environmental Geochemical Analysis
- EESB04F Hydrology: Measurement, Estimation and Forecasting
- EESD11S Hydrology: Physical Processes and Modelling

**Fourth year:**

- CHMC25H Physical Environmental Chemistry
- CHMC35H Inorganic Environmental Chemistry
- EESC07F Exploration Techniques in Hydrogeology
- EESD12F Glacial & Periglacial Geology
- EESD02S Contaminant Hydrogeology
- EESD07F Field Camp II
- EESD01F Policy Issues in Mathematics and Science

**Specialist Programme in Mathematics**

**Supervisor:** E. Moore (287-7267)

The Specialist Programme in Mathematics is designed to give students a thorough grounding in the main areas of Mathematics, together with an understanding of the close relationship between Mathematics and other Sciences. It is aimed at students who may be interested in teaching, law, government or industry, or who may decide to pursue a career in research.

**First year:**

- CSCA06F Introduction to Computing
- MATA04Y Linear Algebra
- MATA26Y Calculus
- PHYA01Y Principles of Physics*

**First or second year:**

- CSCB70S Computer Science
Second year:
MATH311F
Geometry I
MATH321F
Algebra I
MATH323
Algebra II
MATH351F
Multivariate Calculus I
MATH352
Multivariate Calculus II
MATH353
Introduction to Analysis
STAB22F
Statistics
STAB47S
Introduction to Probability
Theory and Mathematical
Statistics

one of:
CSCI585, PHYS215, STAB47S

Third year:
MATH401F
Galois Theory
MATH415
Differential Equations I
MATH451F
Differential Equations II
MATH455
Real Analysis I
MATH600F, MAT655
third of:
MATH700, C36S, C11F, C12P, C54P
Any additional CSCI 0.5 course
Any additional STA 0.5 course

Fourth year:
MATH533Y or MAT530F
and
MATH555

two of:
CSCI50F, CSCI51S, MATH500, C36S,
C11P, C12F, C54P
PSCD20F Policy Issues
PSCD20S Current Issues in
Mathematics and Science.

*PHY110 is not an acceptable substitute

Specialist Programme in Mathematics and Statistics
Superior: S. Chawla (287-7252)
The Specialist Programme in Mathematics and Statistics provides a student with the mathematical and statistical background for a sound understanding of statistical theory and practice. The Programme prepares students for employment opportunities in business, government and education and for graduate study.

First year:
CSCI35F
Introduction to Computing
MATH10Y
Linear Algebra
MATH153
Calculus
PITAY1Y Principles of Physics*

First or second year: CSCI705-Computer Applications.
CHMB4Y Organic Chemistry II
MATB41F Techniques of the Calculus of Several Variables II
MATB42S Techniques of the Calculus of Several Variables II
CHMB22F Physical Chemistry II
CHMB12F Physical Chemistry I
CHMB12Y Inorganic Chemistry I
CHMB41Y Inorganic Chemistry II
PHYS1B1Y Analytical Chemistry I
PHYS2B1Y Physical Chemistry I
PHYS3B1Y Inorganic Chemistry I
PHYS3B1Y Inorganic Chemistry II
PHYS4B1Y Computational Mathematics
PHYS4B1Y Introduction to Computing

Major Program in Environmental Science

This program is scheduled to begin in 1993/94, pending the approval of the Governing Council.

Supervisor: T. Pratt (387-7127)

The Major Program is designed to give students a good background in the basic principles and applications of Environmental Science. It is intended for students with an interest in Environmental Science, but who do not intend to specialize in the field. It is appropriate for students pursuing a three-year degree in Environmental Science or those pursuing a four-year degree with more than one area of specialization.

Second and Third years:

CHMB41Y Analytical Chemistry
CHMB42Y Physical Chemistry II
CHMB22Y Molecular Biology
CHMB42Y General and Comparative Physiology

One full-course equivalent C-level Chemistry Course** which includes a laboratory.

*PHYS101 is not an acceptable substitute.

** Students should note that if they are going to select CHMB22F, CHMB32F then MATB41F and MATB42S are required as prerequisites.

Major Program in Biochemistry

Supervisor: J. Potter (387-7122)

This program places a greater emphasis on the biological aspect of chemistry than does the general Chemistry Major Program. It is offered for students who are primarily interested in chemistry but also want to study the chemistry of living systems. Students should complete the following seven and one-half courses:

First year:

CHMA12Y Introductory Biology
CHMA22Y General Chemistry

Second year:

EBSB01Y Fundamentals of Ecology
EBSB02Y Principles of Systematics and Evolution
EBSB03Y General Geomorphology
EBSB04Y Hydrology: Measurement, Estimation and Forecasting
EBSB05Y Introduction to Soil Science

Second and Third years:

EBSB01Y Principles of Systematics and Evolution
EBSB02Y General Geomorphology
EBSB03Y Hydrology: Measurement, Estimation and Forecasting
EBSB04Y Introduction to Soil Science

Major Program in Mathematical Sciences

Students must choose one of the following options:

Mathematics:

Supervisor: H. S. Rosenthal (287-7268)

First year:

MATA2A1Y Calculus
MATA2B1F Linear Algebra
CSCA5FF Introduction to Computing

First or Second Year: CSCE701-Computer Applications

Second and Third years:

MATB3Y1F Algebra I
MATB4B1F Techniques of the Calculus of Several Variables I
MATB4B2S Techniques of the Calculus of Several Variables II
STAB62F Statistics

a) 1.5 full-course equivalents from:
MATB3Y5, CS1F, CS3Y, CS5Y, CS8F, CS6F, CS8F, CS8F
1.0 full-course equivalent from:
MATB4B5, CS1F, CS3Y, CS5Y, CS6F, CS8F, STAB45S, CS1F, CS4F, CS5F, CS8F, STA84S, CS2F, CS2F, CS2F, any 400 level STA course on St. George campus.

Statistics:

Supervisor: S. Chawa (287-7252)

First year:

CSCE5FF Introduction to Computing
MATA4Y1F Linear Algebra
MATA4Y9F Calculus
First or second year: CSCE701-Computer Applications

Second and Third years:

MATB4B1F Techniques of the Calculus of Several Variables I
MATB4B2S Techniques of the Calculus of Several Variables II
STAB61F Introduction to Probability Theory and Mathematical Statistics

a) 2.0 full-course equivalents from:
STAB45S, STAB52F, STA84S, CS2F, CS2F, any 300 and 400 level STA course on St. George campus.

Computer Science:

Supervisor: G. Capit (287-7253)

First year:

CSCE2BF, B3F, B5F, CS4F, CS5F, CS6F, MATB3Y5, B3F, B5F, B7F, CS5F, CS6F, CS8F, CS8F, STA84S, CS2F, CS2F, CS2F, any 300 and 400 level STA course on St. George campus.

Second and Third years:

CSCE2B1F File Structures and Data Management
CSCE3B1F Discrete Mathematics
CSCE4B1F Computer Organization
MATB4B1F Techniques of the Calculus of Several Variables I

MATB4B2S Techniques of the Calculus of Several Variables II

Statistics:

a) 1.0 full-course equivalent from:
MATB4B5, CS1F, CS3Y, CS5Y, CS6F, CS8F, STA84S, CS2F, CS2F, CS2F, STA84S, CS2F, CS2F, any 400 level STA course on St. George campus.

CSCE2BF, B3F, B5F, CS4F, CS5F, CS6F, STA84S, CS2F, any 400 level STA course on St. George campus.
Physics

Discipline Representative: M.J.G. Lee
(287-724)

Physics is the study of the basic laws that describe how material objects move and influence each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a neighbouring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. Although Newton's laws of motion adequately describe some of these phenomena, in most cases it is necessary to apply the more recently discovered refinements of these laws—quantum mechanics and the theory of relativity together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter can be understood in terms of the interactions among the individual units of which these forms of matter are composed. Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses and of x-rays, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications of the subject.

Physics is an ever-developing, mathematical language, theories that so accurately describe physical phenomena that they may be used to predict the results of many carefully controlled experiments. The study of physics, therefore, requires some studies both of mathematics and of the languages that are needed in the performance of accurate experiments.

Socrates College: a student interested in Physics can take the Specialist Programme in Astronomy, Physics and Mathematics, the Specialist Programme in Physical Sciences, or the Major Programme in Astronomy and Physics. In addition, there is a Co-operative Programme in Co-operative Affairs for Physical Sciences.

NOTE: There are three introductory courses in physics, each of which is accompanied by a calculus course: PHY1001: Principles of Physics - a full-year course with a calculus course, which makes greater use of mathematics and gives greater opportunity to develop problem-solving skills, while PHY1002: Dynamics of Classical Systems and PHY1003: Electromagnetism and Solid State Devices - are half-year courses with no calculus, which together offer a broader coverage of physical concepts and their applications. PHY1002 and PHY1003 are intended primarily for students who are not specialists in the Physical Sciences.

Students wishing to take a full year of physics may choose to take either PHY1001 or PHY1002 and PHY1003. Students wishing to take a half year of physics may take either PHY1002 or PHY1003.

Please refer to the Physical Sciences section of the Calendar for the following Programmes:

Specialist Programme in Astronomy, Mathematics and Physics
Specialist Programme in Computer Science and Physics
Specialist Programme in Co-op Computer Science and Physical Sciences
Major Programme in Astronomy and Physics
Major Programme in Physics

The Major Programme in Physics is no longer offered. Students currently registered will be allowed to complete it.

PHY1001 Principles of Physics
Telephone ID: 2481001
Classical mechanics: potential energy, conservation laws, rotational dynamics, planetary motion, harmonic vibrations, wave equations, Thermodynamics: temperature, entropy, ideal gases; Special theory of relativity; Lorentz transformation, relativistic mechanics.
E-magnetic: Electricity and magnetism: Maxwell's equations, electromagnetic waves: Quantum mechanics: Schrödinger's equation in simple systems, lasers, electronic states in metals and semiconductors, the structure of the nucleus.
Two lectures and one tutorial per week.
Exclusions: PHY1003, PHY1010, PHY111; PHY110, 130, 138, 150; Corequisite: MAT220 or (MAT227 or MAT255); Session: Winter Day
Political Science

Discipline Representative: B. Master (287-7308)

Political Science consists of a variety of approaches to the study of politics. Politics is the process of attempting to resolve conflicts among competing interests and values, and over how societal resources will be allocated. The discipline includes not only the study of political processes and arrangements created to facilitate non-violent resolution of conflict at the level of the nation state, but also the institutional and informal means by which a group may enhance its power (that is, its ability to have its views and interests implemented) from the level of the municipality to the international realm.

Political Science is divided into the following fields: Canadian government, comparative politics (industrial countries), comparative politics (developing countries), public administration and public policy, international relations, and political theory. In the study of Canadian Government, students will become familiar with the process and structures of decision making in Canada. Public Administration deals with the institutions and their organizational structures through which public policies are implemented. Courses in Comparative Politics focus on the political practices and policies of a wide variety of nations and thus broaden the student's awareness of foreign political systems. International Relations is devoted to the analysis of the foreign policies of various nation states and of the relations amongst nation states. Political Theory explores the reasons advanced for various political doctrines and policies; that is, it attempts to clarify the place of politics in relation to various conceptions of the "quality of life".

Levels of courses range from A to D; the lettering corresponds to increasing degrees of concentration and difficulty of subject matter. D-level courses are advanced seminars and assume a strong background in political science and/or related fields such as economics, geography, history, philosophy, and sociology. Students are advised to consult the instructors of D-level courses or the Supervisor of Studies prior to enrolling in them.

In limited enrolment courses, priority is given to students for whom the course is required in a given year of a programme. Students will be informed prior to the end of classes in April on how to apply to limited enrolment courses. Students should consult the Supervisor of Studies about procedures and procedures. However, because appropriate academic preparation for advanced work in political science is very greatly organizational, students may find it to their advantage to enroll in lower-level courses. Where prerequisites are stated, they will be enforced, and students who have not completed or who are not eligible for courses for which they do not have the necessary prerequisites will be denied access to those courses.

Specialist Programme in Political Science Supervisor: D. Welch (287-7308)

Note: Registration in this Programme is limited.

Applications for admission to the Specialist Programme are accepted after students have completed at least four full-course equivalents (i.e. generally after completing the first year of the degree programme). Applicants must have completed or be in the process of completing POLA59 in which their grades are highest. Students wishing to register at a later date may be admitted at the discretion of the Supervisor.

Students must complete at least six full-course equivalents in Political Science, at least two of which must be at the C or D level. The Supervisor will consult with the student and must include the following:

1. POLA50 Introduction to Canadian Politics
2. POLB70 Political Theory from an Idealist Perspective
3. POLC75 Comparative Politics
4. POLD70 POLA59
5. POLD70 POLA59
6. POLD70 POLA59
7. POLD70 POLA59
POL8507: Introduction to Canadian Politics
Course Code: 25215561
A study of Canadian political institutions and processes. Specific topics include the constitution, federalism, civil liberties, federal-provincial relations, political regionalism. French Canada, the West, social class and politics, public opinion, and political culture, elections, political parties, interest groups, Cabinet and Prime Minister, Parliament, the public service. Two lectures a week and a tutorial once every two weeks. Class size is limited to 80 per section. Exclusions: POL350, POL100 Session: Winter Day L. Johnston, B. Blair

POL8507: Political Economy of International Development
Course Code: 18120163
Introduces students to major development problems, the principal social, economic and political factors that condition these and the impact on them of various development strategies pursued in a sample of Third World countries. Prerequisite: One course in either Economics or Political Science Session: Winter Day S. Horton, P. Kingdon

POL8515: Government and Politics in Ontario
Course Code: 25225153
Political structures and processes in Ontario: Cabinet government; the interaction of Cabinet, Legislature, and public service; political parties; the party system; provincial municipal relations. Class size is limited to 80 per section. Exclusions: POL336 Prerequisite: POL50 (POL50) Session: Winter Day R. Blair

POL8515: Issues in Canadian Politics
Course Code: 25225553
This course will examine and analyze a selection of the problems and issues of contemporary Canadian politics. Class size is limited to 80 per section. Prerequisite: POL 507, or permission of the instructor. Session: Winter Day G. Skotsulad

POL8507: Canadian Public Policy and Administration
Course Code: 25225603
Ideologies, institutions and processes of politics, policy and administration in the governments of Canada and Ontario. Basic types of administrative organizations: ministerial departments, central agencies, regulatory tribunals, public corporations and advisory bodies. Processes of constructing public policy, planning priorities, choosing governing instruments and implementing public policies. Patterns of public policies in selected areas of economic growth, social welfare, public education and human rights. Problems of democratic politics, political ideology and bureaucratic power in making public policy. Class size is limited to 80 per section. Prerequisite: POL507 Exclusions: POL8351, POL8361 Session: Winter Day R. Muszyn

POL8507: Political Thought from Plato to Locke
Course Code: 25227063
An examination of the central political texts from Plato to the early modern period. Students will be expected to read Plato's Republic, Aristotle's Politics, Machiavelli's The Prince, Hobbes' Leviathan (Parts one and two) and Locke's Second Treatise of Government. The political writings of St. Augustin and St. Thomas Aquinas will also be studied. Class size is limited to 80 per section. Exclusions: POL200 Session: Winter Day E. Andrews

POL8507: International Relations
Course Code: 25225628
A study of the nature of the international system, the factors that motivate foreign policies, and the institutions for the conduct of international relations. Class size is limited to 80 per section. Exclusions: POL208 Prerequisite: Not open to first year students without permission of instructor Session: Winter Day D. Welch

POL8507: Russian Government and Politics
Course Code: 25225663
The development of Russian political and social institutions since 1917, with emphasis upon the process of modernization and its effects. The course examines the formation and consolidation of the Russian political order and the urgent problems confronting Russian society today. Class size is limited to 80 per section. Exclusions: POL285, POL204 Session: Winter Day J. Solomon

POL8507: Politics of the Third World
Course Code: 25225163
The effects which various Western, especially North American, policies and practices have had upon development in the Third World. The policies and practices to be surveyed include those relating to foreign aid, the multi-national corporations, and Western security. Case material will be drawn from four countries in Latin America and Africa which illustrate a diversity of approaches to development: Cuba, Chile, Ghana, Kenya. Class size is limited to 80 per section. Exclusions: POL201 Session: Winter Day J. Techman

POL8507: The Machinery of Parliamentary Government
Course Code: 25225163
In the first term this course will explore the nature of cabinet government in Canada, its strengths and weaknesses and possible avenues of reform. In the spring term it will concentrate on finance policy, in particular, the process whereby the expenditure and revenue budgets are formulated in Canada and federal-provincial finances. Class size is limited to 60 per section Exclusions: POL5057 and POL361F (1993-94 only); in subsequent years: POL2057 Session: Winter Day R.S. Black, L. Johnston

POL8507: Canadian Constitution
Course Code: 25225628
Historical origins of the Canadian constitution and its evolution since 1867; the law and customs of the constitution; judicial interpretation of the Constitution Act 1867 and its effect on federations and civil liberties; constitutional change and the Constitution Act 1982; contemporary constitutional issues. Class size is limited to 60 per section. Exclusions: POL210 Prerequisite: POL50 (POL350) Session: Winter Day R.S. Blair

POL8507: The Politics of Canadian Environmental Policy
Course Code: 25235333
This course examines the political and legal framework within which Canadian environmental policy is evolving, with due regard for the catalytic role of environmental groups, public opinion, and the courts system, and the distinctive contribution to policy development of federalism and Canada's resource-based economy. Class size is limited to 60 per section. Prerequisite: POL50 Session: Winter Day C. Skotsulad

POL8507: International Relations in Canada
Course Code: 25225433
An examination of some of the problems of international relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada. Class size is limited to 60 per section. Exclusion: POL50 (POL50) Session: Winter Day G. Skotsulad

POL8507: Administrative Politics
Course Code: 25225033
Analysis of politics in the administrative/procedures of democratic states with particular attention to Canadian public administration but with some reference to American and European experience. Selected theories of administrative politics, the constitutional and political framework of administrative politics in Canada, typical regulatory forms of administrative conflict and co-operation, and issues of administrative politics and political accountability. Class size is limited to 60 per section. Prerequisites: POL505, POL350 plus POL361 and POL205 Session: Winter Day R. Muszyn

POL8507: Policy Development and Political Evaluation
Course Code: 25225453
Theories of public decision-making and basic patterns of policy-making institutions and processes. Problems of design and evaluation criteria for political evaluation such as efficiency, effectiveness, equity, wants, needs and rights. Analysis of theory and practice in selected cases of
POL570Y Twentieth Century Political Thought
Telephone ID: 25247053
A study of some of the major developments in political thought in the twentieth century. The course examines the evolution of democratic theory with particular attention to the impact on that theory of the sociopolitical crisis (the failure of democracies and rise of fascism) in Europe. Class size is limited to 20 per section.
Exclusion: POL270
Prerequisite: POL70F1 or POL175
Session: Winter Day
E. Andrew

POL588Y The Psychology of International Relations
Telephone ID: 25248513
This course will explore the contribution that psychological knowledge can make to an understanding of international relations. Problems to be considered include problems of war and peace, the influence of perception on foreign policy decisions, the influence of personality of decision-making. The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussions.
Class size is limited to 20 per section.
Exclusion: POL281
Prerequisite: POL180
Session: Winter Day
D. Welch

POL598Y Selected Topics on Developing Areas
Telephone ID: 25249045
The topic to be examined this year is the role of the state in facilitating economic development in the Third World. Both capitalist and socialist patterns receive attention. Comparisons to Western and Japanese experience are drawn. Class size is limited to 20 per section.
Prerequisite: A social science course on the Third World or development
Session: Winter Day
P. Kingston

POL608Y Supervised Reading
Telephone ID: 2249833
Advanced reading programme in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of political Science, wish to pursue further intensive study on a relevant topic of special interest.
Exclusion: POL405
Prerequisite: One B level course in Political Science; Permission of Instructor.
Session: Summer Evening, Winter Day, Winter Evening
Staff

POL6095 Supervised Reading
Telephone ID: 2549953
Advanced reading programme in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of political Science, wish to pursue further intensive study on a relevant topic of special interest.
Exclusion: POL405
Prerequisite: One B level course in Political Science; Permission of Instructor.
Session: Summer Evening, Winter Day, Winter Evening
Staff

Courses Not Offered in 1990-94

POL687Y U.S. Government and Politics
Limit: 80
Exclusion: POL203

POL558FS Comparative Provincial Government
Limit: 60
Exclusion: POL333
Prerequisite: POL540 (POL550)

POL588S Comparative Intergovernmental Relations
Prerequisite: POL540 (POL550) and one of POL53, POL54, POL57

POL566Y American Foreign Policy
Limit: 60
Exclusion: POL326
Prerequisite: POL180 or POL181

POL589Y Politics and Society in Tropical Africa
Exclusion: POL301
Prerequisite: none, but a
Course in introductory political science would be helpful.

POL102F/S Organized Interests and Public Policy in Canada
Limit: 20
Prequisite: POLA50 (POL 130)

POL121F Topics in Canadian Government
Limit: 20
Prequisite: POLA50 (POL 130)

POL122F/S Organized Interests and the State
Limit: 20
Prequisite: POLA50 (POL 130) or POL121 or POL122

POL121Y Canadian Political Ideas
Exclusion: POL212, POL307
Prequisite: One of POLA50 (POL 130), POL120, POL124, HIS104

POL127F/S Selected Topics in Political Philosophy
Limit: 20
Prequisite: POL130, POL124 or Permission of the Instructor

POL129F/S Selected Topics in Political Philosophy
Limit: 20
Prequisite: POL130, POL124 or Permission of the Instructor

POL130F Selected Topics in Developing Areas
Limit: 20

Psychology

Associate Chair: G.C. Cupchik
(Office S-614)

Psychology is that branch of science which seeks to understand behavior and mind. Why organisms—human and infranhuman—act as they do in one of the most compelling and longstanding questions in the history of human thought. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. Psychology uses the methods of scientific inquiry to address the question.

The areas of interest encompassed by the discipline of psychology include: how organisms perceive their environments; how they learn, adapt, and remember; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to motivating forces; how they are affected by the presence of other organisms in social settings; how their behavior relates to their physiological functions; and how individuals and species differ from one another. Our course offerings in Psychology include all of these topics, covering how psychologists go about answering the important questions in each, and what we have learned about each.

The Specialist Programme in Psychology includes courses from each of the main sub-areas within the discipline. This Program is intended both for students with a strong interest in the field and for those who wish to pursue graduate work in psychology after the first degree. Students considering graduate study should plan to include the thesis course (PSYD98T) in their undergraduate program.

The Major Programme in Psychology is designed to introduce students to the main areas within the discipline. The Minor Programme is designed for students who are interested in a less intensive exposure to the field. Often, students desire to concentrate their studies in two areas, in which case a double Major Programme combining psychology with another discipline is ideal.

Students particularly interested in the relation of brain to behavior should consider the Specialist or Major Programme in Neuroscience described earlier in this Calendar. Those particularly interested in the study of knowledge—language, cognition and thought—may wish to consider the Major and Specialist Programmes in Cognitive Science described earlier.

Planning your Programme in Psychology

Students should be aware that the A, B, C, D course structure in Psychology dictates the sequence in which courses should be taken, but not the year of study in which a given course must be taken. That is, A, B, C, and D must be taken consecutively in the two terms of second year and that the same be done with PSYB865S and PSYC615S.

Students should be aware that the exceptions of PSYB87Y and 2041, all other courses in the Faculty of Arts and Science correspond to B, C or D-level and all 400 series are considered D-level. Students are encouraged to plan carefully so that they will meet their educational objectives over the years of their degree. Discussions with the Supervisor of Studies can be very valuable in this regard.

Specialist Programme in Psychology

Supervisor: M. Schumaker (Office S-540E)

The programme requires completion of 12.5 full-course equivalents, and fulfills the Programme requirements for the 4-year B.A. degree in Psychology.

The requirements for the B.A. degree are met by the addition of one further half-course (1.5 full-course equivalent) as a science (including psychology) at the B-, C- or D-level.

A. 10.5 full-course equivalents in Psychology, as follows:

1. PSY140Y Introduction to Psychology

2. Statistical Methods (1 full-course equivalent)

(a) PSYB707S Data Analysis in Psychology

(b) PSYC615F/S Experimental Design in Psychology

3. Laboratory Methods (1 full-course equivalent)

(a) PSYB107F/S Psychological Research Laboratory

(b) half-course (1.5 full-course equivalent) from the following:

- PSY141F/S Social Psychology Laboratory
- PSYC210F/S Developmental Psychology Laboratory
- PSYC215F/S Psychometrics Methods Laboratory
- PSYC240F/S Learning Laboratory
- PSYC250F/S Experimental Psychology Microcomputer Laboratory
- PSYC635F/S* Psychological Psychology Laboratory

*NOTE: Students selecting PSYC635F/S must receive 0.5 course credit towards satisfaction of requirement 6(b) or 7)

4. PSYB825S Scientific Communication in Psychology (1 full-course equivalent)

5. History and Theoretical Psychology (1 full-course equivalent)

6. (a) PSYC615F/S Theoretical Psychology

(b) PSYC355S History of Psychology

6 Courses at the B-level and/or C-level (3 full-course equivalents)

Students are required to take the full-course equivalent at the B-level and/or C-level from each of the three content groups listed below:

(a) Social, Developmental and Personality courses (listed in the 60, 20, and 30-series);

(b) Learning and Physiology courses (listed in the 40- and 50-series);

(c) Perception, Language and Cognition courses (listed in the 50-series).

7. Courses at the D-level (2 full-course equivalents)

In selecting two full-course equivalents at the D-level, students may not include more than 1.5 full-course equivalents from any one of the content groups listed under 6(a), 6(b), or 6(c).

8. Additional courses in Psychology (0.5 full-course equivalents)

Students must choose 1.5 further full-course equivalents from any of the remaining courses in psychology. The choice is unencumbered. Specialists are encouraged to plan on completing the thesis course (PSYD98T) in their third or fourth year, particularly if they intend to pursue a career in Psychology or a related discipline.

B. Other Disciplines (2 full-course equivalents)

Students must select at least two full-course equivalents at the B-level or higher in a discipline or disciplines other than Psychology.

Major Programme in Psychology

Supervisor: M. Schumaker (Office S-540E)

The Programme requires completion of 6.0 full-course equivalents in Psychology and normally results in the 3-year B.A. in Psychology. For the 3-year B.Sc. degree, the student must take one additional full-course equivalent at the B-level or above in any science (including psychology).

1. PSY140Y Introduction to Psychology (1 full-course equivalent)

2. PSYC615F/S Psychological Research Laboratory (1.5 full-course equivalent)

3. At the D-level, students must choose one full-course equivalent in Psychology (1.5 full-course equivalents)

4. At the B-level or C-level (1.5 full-course equivalents)

Students are required to select one half-course (0.5 full-course equivalent) at the
Psychology 185

B-level and C-level from each of the three core groups listed below:
(a) Social, Developmental and Personality courses (listed in the 30-, 20-, or 30-series);
(b) Learning and Physiology courses (listed in the 40- or 60-series);
(c) Perception, Language, and Cognition courses (listed in the 50-series).

Course at the D-level (5 full-course equivalent):
Students must choose one half-course (5 full-course equivalent) from the D-level offerings in Psychology.

Additional courses in Psychology (2 full-course equivalent):
Students must choose 2 further full-course equivalents from any of the remaining courses in Psychology. At least one full-course equivalent from these must be at the C- or D-level.

More Programs in Psychology
Supervisor: M. Schneider (Office SS4102).
The program requires completion of 4.0 full-course equivalents in Psychology, at least one full-course equivalent from each of the three core groups listed below (1.5 full-course equivalents):
(a) Social, Developmental and Personality courses (listed in the 30-, 20-, or 30-series);
(b) Learning and Physiology courses (listed in the 40- or 60-series);
(c) Perception, Language, and Cognition courses (listed in the 50-series).

Additional courses in Psychology (5 full-course equivalent):
Students must choose 5 further full-course equivalents from any remaining course in Psychology.

Psychology 186

Psychology 186

Introduction to Developmental Psychology
Telephone ID #: 2572032
Developmental processes during infancy and childhood.
This course presents students with a broad and integrative overview of child development. Major theories and research findings will be discussed in order to understand how the child changes physically, socially, emotionally, and cognitively with age. Topics are organized chronologically beginning with prenatal development and continuing through selected issues in adolescence and life-span development.

Three lecture hours per week.
Exclusions: PSY120
Prerequisite: PSY101
Session: Winter Day
D. Bohn

Data Analysis in Psychology
Telephone ID #: 2572073
Data reduction techniques: frequency distributions, measures of central tendency and variability, linear transformations, correlation and regression; and hypothesis testing procedures based on the binomial, chi-square, normal, t and distributions.

The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (to the solution of simple linear equations in one unknown) is assumed. Four hours of lecture and one hour of laboratory per week.

Exclusions: ANT735, BIOL204, ECO201, ECO209, ECO210, CGR210, STAT222, STAT204, SOC206, PSY201B.
Session: Summer Evening, Winter Day
B. Forrin

Introduction to Social Psychology
Telephone ID #: 2572103
Survey of social influence (conformity and obedience), prejudice, stereo typing, group behaviour (crowding, crowd behaviour, mass), aggression, cooperation and competition, nonverbal communication, person perception, attraction and entrapment.

Social Psychology focuses on the problem of how human behaviour is influenced by the presence of others. The course is designed to demonstrate phenomena of social behaviour and to present theory and evidence relating to these phenomena.

Exclusions: PSY225
Prerequisite: PSY201
Session: Winter Day
J. Bassett

Abnormal Psychology
Telephone ID #: 2572203
Devaluation of abnormality: historical-cultural influences on clinical practices. Theories of abnormality: a variety of past and current viewpoints in the development of theories, model and theory, including general, physiological, stress, medical-psychiatric, psychoanalytic, social-learning, and sociological; classification systems and syndromes; problems in the reliability and validity; description of a variety of neuroses, psychotic, and other behavioural disorders of adults and children, including subjective, emotional, sensory-perceptual, psychomotor, and motor aspects; approaches to the problems of investigation, and findings in
psychological, psychophysiological, genetic, and neuroendocrinological research. Management, control, and modification of abnormal behaviour within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.

Exclusion: PYS740H
Prerequisite: PYS1A01
Session: Winter Evening
S. Zedler

PYSB65F Behaviour Modification: Origins and Applications
Telephone ID #: 25724553
A survey of attempts to understand and regulate human behaviour in non-laboratory settings founded on principles derived from the learning and conditioning laboratory. A critical analysis of current applications and systems of behaviour modification and control.

Philosophical underpinnings: basic concepts and models of behavioural change, research strategies; operant procedures; reinforcement schedules, extinction, shaping, self-reinforcement, fading, chaining, instructions, the token economy, behavioural contracting, biofeedback, punishment and its side effects; cognition and behaviour therapy, attribution, placebo effects, cognitive therapy, rational-emotive therapy, thought stopping, problem-solving, modeling; establishment of new behaviours; fear extinction, associative masking; treatment of depression; systematic desensitization; treatment of anxiety; aversive counterconditioning; treatment of alcohol and drug abuse.

Exclusion: PYS161
Prerequisite: PYS101
Session: Winter Evening
F. Kliger

PYSF665F Sensation and Perception
Telephone ID #: 25722503
The physics, mathematics and physiology of processes underlying perception, emphasizing the energies involved in different senses. Stimuli: for the human senses, especially light and sound; receptors and sensory pathways with emphasis on vision; sensitivity: colour, spatial and temporal resolution; contrast: perception of space and movement, perception of pattern.

The teaching method will be lectures, for which preparation reading will be important, and classroom demonstrations of many phenomena under discussion.

Exclusion: PYS200Y
Prerequisite: PYS1A01
Session: Winter Day
J. Kennedy

PYSF67A Perception and Cognition
Telephone ID #: 25725153
Theory and empirical research on visual and tactile perception, representation, and communication. Topics include the ecological approach to perception and depiction in the hand~s~paced normal perceiver, perceptual information and projection, illusion, perspective, shadow patterns, possible and impossible scenes, human and computer scene analysis, ambiguity in perception, perception of objects and images, contour representation. The empirical research is on adults and children, and different species. Demonstrations and exercises form part of the course work.

Exclusion: PYS200Y
Prerequisite: PYS1A01
Session: Winter Day
J. Kennedy

PYSF675 Memory and Cognition
Telephone ID #: 25725753
Discourse of experiments and theories in human memory and cognition. This course provides an analysis of the research on encoding, storage and retrieval of information in human memory. Also surveyed are the related topics of attention, thinking, and problem solving, and their role in a general model of information processing.

Three lecture hours per week.

Exclusion: PYS120Y, PYS132H
Prerequisite: PYS401
Corequisite: PYS807
Session: Winter Day
C. MacLeod

PYSF68F Brain Mechanisms and Behaviour
Telephone ID #: 25726033
The relation between behaviour and the structure and function of the nervous system. Topics covered include: microscopic anatomy, structure and function of neurons, neurochemistry and neural mechanisms and movement.

The objective is to give the student a functional understanding of the structure and function of the nervous system and its role in the functioning of an organism. Neuroanatomy and the structure and function of neurons, neurotransmitters and neuromodulation are topics of emphasis and movement.

Exclusion: STACS52, PYS202H
Prerequisites: PYS807, (BIO628E, STAR22 or STABS47 plus one additional B-level half-course in PYS)
Session: Winter Day
B. Forst

PYSF68Y Social Psychology Laboratory
Telephone ID #: 25731153
Introductory conceptual and practical issues concerning research in social psychology, and provides experience with several different types of research.

This course is designed to consider in depth various research approaches used in social psychology (such as attitude questionnaires, observational methods for studying ongoing social interactions, and laboratory work). Limited enrolment: 20.

Exclusion: PYS320Y
Prerequisites: PYS101, PYS807, PYS10B
Session: Winter Day
J. Battist

PYSF685F Human Brain and Behaviour
Telephone ID #: 25725533
An examination of the neuroanatomical basis of human behaviour: an introduction to human neurophysiology.

The course focuses on the following: higher brain function in humans; hemispheric specialization, neuropsychology of speech, disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, Alzheimer's disease, frontal lobe syndrome, neglect, and speech disorders); psychophysiology and pharmacology of the brain; psychiatric disorders.

Three lecture hours per week.

Exclusion: PYS1A01
Session: Winter Day
T. Perri

PYSF685S Experimental Design in Psychology
Telephone ID #: 25730835
The analysis of variance as a research tool and the rationale and mechanics of its application to a variety of experimental designs: simple randomized, repeated measures, factorial. Additional topics discussed include: homogeneity of variance, multiple comparisons, trend analysis.

The course covers the range of techniques examined in PYS807. Procedures are considered which permit the analysis and interpretation of data from complex experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students contemplating supervised individual research in Psychology.

Three lecture hours and one hour of tutorial per week.

Exclusion: STACS52, PYS202H
Prerequisites: PYS807, (BIO628E, STAR22 or STABS47 plus one additional B-level half-course in PYS)
Session: Summer Evening
B. Forst

PYSF685F Social Psychology Laboratory
Telephone ID #: 25731153
Introductory conceptual and practical issues concerning research in social psychology.
PSY435 Psychological Methods Laboratory
Telephone ID: 2573453
Aims of this course will be to introduce students to the principles and methods underlying the design of psychological experiments, to the interpretation of the results and their implications. The course will cover both traditional and modern experimental methods, and will be taught by experienced faculty members.

PSY445 Applied Psychology of Learning
Telephone ID: 2573453
The purpose of this course is to present principles of human learning and behavior in the context of real-world situations. The course will cover topics such as classical and operant conditioning, and will be taught by experienced faculty members.

PSY455 Psychometric Methods Laboratory
Telephone ID: 2573453
An introduction to the principles and methods underlying the design of psychological experiments, to the interpretation of the results and their implications. The course will cover both traditional and modern experimental methods, and will be taught by experienced faculty members.

PSY465 Cognition and Representation
Telephone ID: 2573453
Recent theories of perception and representation relevant to skill in the use of pictures and language. Topics may include making and interpreting metaphors, recognizing cross-modal equivalence, learning how to draw, and symbolizing, and effects of perceptual and cognitive factors on the development of skills with patterns normally found in vision and audition. The research to be considered will emphasize studies on the blind, the deaf, and children who are developing learning. Teaching methods include lectures and student presentations of research.

PLC655 Psycholinguistics
Telephone ID: 2573453
Experimental evidence for theories of how humans produce and understand language, and of how language is represented in the mind. Topics will include the perception and categorization of speech sounds, retrieval of words from memory during speech and listening, use of grammatical knowledge in planning and understanding sentences, production and comprehension of longer stretches of discourse, and the role of memory systems in language processing.

PSY656 Physiological Psychology Laboratory
Telephone ID: 2573453
Examination of the relationship of psychology to the brain and the nervous system. Topics will include sensory processes, motor control, learning, memory, attention, and consciousness. The course will be taught by experienced faculty members.
developing sophistication in the techniques of theoretical analysis. The aim is to enable the student to read and evaluate the current literature in theoretical psychology. Exclusion: PST301H
Prerequisite: PSY360/361H or permission of instructor.
Session: Winter Day
T. R. A.

PSY351F Philosophy of History of Psychology
Telephone ID: 25738533
A survey of developments in Western philosophy and science which influenced the emergence of modern psychology in the second half of the Nineteenth Century.
Twentieth Century schools of psychology are discussed, including functionalism, structuralism, Gestaltism, Phenomenology, Behaviorism and Cognition. The course is designed for students who wish to integrate their knowledge of the different areas of psychology and offers good preparation for graduate school.
This course examines changes in the treatment of these basic problems: mind-body, epistemology (the science of knowledge) and behaviour ethics. We begin with the ancient Greek philosophers who established the foundations of Western thought and science. The contributions of European philosophers and scientists (both physical and natural) from the Fifteenth through Nineteenth Centuries are then discussed. Topics also considered include the process of paradigm or theory change in science and the relative contribution of individual genius and Zeitgeist or intellectual climate to the evolution of developments. Limited enrolment: 25.
Exclusion: PSY350H1
Prerequisite: Two E-level half-courses in Psychology
Session: Winter, Summer, Evening, Winter Day
G. Capóchich

PSY360/361F Supervised Study in Psychology
A reading or research project. These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses where these are available. The student must determine a background adequate for the project proposal and should present a clear rationale for the prospective supervision. Frequent consultations with the supervisor is necessary and extensive library research and data collection will be required. Such a project will culminate in a written submission. Exclusions for PSY360/361H, PST360H, PST361H:
Exclusions for PSY360/361H:
- NRO003
- NRO03
- NRO03
- PST360H, PST360H
- PST361H

PSY370F Critical Analysis in Social Psychology
Telephone ID: 25741663
Progress in psychology is predicated on developments in both theory and methodology. The primary goal of the course is to enhance skills for critically analyzing both domains in Social Psychology. European and North American approaches to criticism are compared. Evolutionary and revolutionary models of development are contrasted. Disciplinary and professional aspects of social psychology are discussed in relation to scientific progress. Special emphasis is placed on social and personality factors which shape theory construction and validation. Examples are drawn from both cognitive and motivational approaches to social phenomena. Finally, the analogy between Pogge's account of intellectual development in the child and developments in social psychology is considered. Limited enrolment: 20.
Exclusion: PST4200H
Prerequisite: PSY311H or PSY312H or PST310H plus one C-level half-course in PSY
Session: Winter Day
G. Capóchich

PSY371F Psychology of Gender/Telephone ID: 25741883
This course focuses on theory and research pertaining to gender and gender roles. The social psychological and social-developmental research literature concerning gender differences will be critically examined. Other topics also will be considered, such as gender-role socialization. Teaching method: seminar. Limited enrolment: 20.
Exclusion: PST372H1
Prerequisites: PSY310H plus two C-level half-courses in PSY
Session: Winter Day
K. Dixon

PSY372F Current Topics in Developmental Psychology
Telephone ID: 25742053
An intensive examination of selected issues and research problems in developmental psychology.
The specific content will vary from year to year with the interests of both instructor and students. Lectures, discussions, and oral presentations by students. Limited enrolment: 20.
Exclusion: PST4109H
Prerequisite: PSY311H or PSY312H (JLPC24) or PST310H plus one C-level half-course in PSY
Session: Winter Day
M. Schneuwly

PSY373F Current Topics in Abnormal Psychology
Telephone ID: 25743353
An intensive examination of selected issues and research problems in abnormal psychology. The specific content will vary from year to year with the interests of both instructor and students. Lectures, discussions, and oral presentations by students. Limited enrolment: 20.
Exclusion: PST4109H
Prerequisite: PSY312H plus one C-level half-course in PSY
Session: Winter Day
S. Zeilin

PSY374F Human Intelligence
Telephone ID: 25744133
Part I of this course reviews the classical theories as well as past research strategies and findings in the field of human intelligence. Part II examines current work in the area. Part III critically considers the question of the current status of the field.
Limited enrolment: 20.
Exclusion: PST4110H
Prerequisite: PSY311H or PSY312H
Session: Winter Day
G. Capóchich

PSY375F Current Topics in Physiological Psychology
Telephone ID: 25746033
An intensive examination of selected issues and research problems in physiological and psychobiological aspects of the nervous system. Limited enrolment: 20.
Exclusion: PST376H
Prerequisite: PSY312H
Session: Winter Day
R. Smyth

PSY376F Current Topics in Psychology
Telephone ID: 25748653
An intensive examination of selected issues and research problems in psychology. Limited enrolment: 20.
Exclusion: PST376H
Prerequisites: PSY312H
Session: Winter Day
G. Capóchich

PSY378F Neuroscience: Mechanisms and Function
Telephone ID: 25746525
Neuroscience refers to the modification of neural circuits in response to experience which provides the foundation for learning, memory, and other complex mental processes. This course will explore the mechanisms of change in the nervous system and its functional significance. There are two major goals: (1) to survey and critically discuss the most important
Sociology 193

Russian

Discipline Representative: A. Sevri

Sociology is the scientific study of interaction among people, the social relations which they establish, and the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. Students currently registered in the Sociology Program will be allowed to complete it.

Major Program in Sociology

Sociology

Sociology 287-7209

The Program requires completion of seven full-course equivalents in Sociology including:

1. SOC201Y Introduction to Sociology
2. SOC202Y Methods in Social Research
3. SOC210Y Social Statistics
4. SOC302Y History of Social Thought
5. Three full-course equivalents in Sociology, at least one of which must be at the C level

Minor Program in Sociology

Sociology 287-7209

The Program requires completion of four full-course equivalents in Sociology including:

1. SOC201Y Introduction to Sociology
2. SOC302Y Social Statistics
3. SOC302Y History of Social Thought
4. Three full-course equivalents in Sociology, at least one of which must be at the C level

SOCI01Y Introduction to Sociology

An introduction to the basic concepts, principles and methods of sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture,
SOC1B1Y Sociology of Deviant Behaviour
Telephone ID #: 286213863
The analysis of the social processes by which behaviour is defined and treated as criminal, immoral, disgusting, sick, or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant subcultures; specific categories of deviance, such as, criminal against persons; "victimless crimes"; mental illness, sexual deviance and alcoholism.
Exclusion: SOC1C1
Prerequisite: SOC1A0Y
Session: Summer Evening

TBA

SOC1B2Y Ethnic and Race Relations
Telephone ID #: 286223603
A study of the structure and processes in a society made up of a variety of ethnic and racial groups. The focus will be on Canada. The course will study ethnic stratification, immigration, prejudice and discrimination, ethnic social mobility and ethnic conflict, assimilation and ethnic identity retention, and the problem of integration of society. Specific topics will include: conflict of generations, stereotyping, Canadian biculturalism and multiculturalism and others.
Exclusion: SOC1C0
Prerequisite: SOC1A0Y
Session: Summer Evening

TBA

SOC1B3Y Sociology of Work and Industry
Telephone ID #: 286233603
An introductory examination of the nature of work and people's occupational roles and behaviour in modern industrial settings.
Students will be exposed to some of the major concepts, theories and empirical research in the sociology of work and industry. Topics will include an overview of the process of capitalist industrialization, changes in the occupational structure of the labour force, orientations to work, sources of job satisfaction and dissatisfaction, women and work, the impact of new technology, unions, unemployment and unemployment, professionalization. Two hours of lectures per week.
Exclusions: (SOC1C7 and SOC1C13)
Prerequisites: SOC1A0Y and one other B-level full-course equivalent in Sociology or permission of instructor
Session: Winter Day

J. Turner

SOC1C0Y Collective Behaviour
Telephone ID #: 286333333
The study of 'mass' or group behaviour; crowds, panics, crazes, riots and the genesis of social movements. Prerequisite: SOC1A0Y and one other B-level full-course equivalent in Sociology.
Session: Winter Day
J. Hannah

SOC1C4Y Social Movements
Telephone ID #: 286304453
The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the career of the movement and its rationalization. The course readings will be closely related to the lectures, and a major concern will be to link the theoretical discussion with the concrete readings of movements.
Prerequisite: SOC1A0Y and one other B-level full-course equivalent in Sociology.
Session: Winter Day
J. Hannah

SOC1C6Y Contemporary Social Theory
Telephone ID #: 286305653
A consideration of basic questions underlying sociological thinking as they arise in the work of contemporary theorists and theoretical schools. Students will be expected to develop an informed, critical perspective on current debates within the discipline.
Exclusion: SOC1C3
Prerequisite: SOC1B0Y and one other B-level full-course equivalent in Sociology.
Session: Winter Day
M. Hammond

SOC1C8Y Applied Sociology
Telephone ID #: 286306553
Use of sociological theory and methodology to clarify policy issues in organizations. Evaluation of agency services in terms of community need or demand for services. Analysis of
Sociology

Unanticipated consequences.
Prerequisite: Two full-course equivalents in Sociology
Session: Winter Day
J. Lee

S0CC197F Sex, Self and Society
Telephone ID: 28631033
The single most important influence on our behaviors is being male or female. Gender is built into how our institutions are put together, how we are socialized and how opportunities and access to scarce resources are structured. This course is a sociological examination of gender as a category of analysis, research and social experience. It will focus on the social construction of gender, gender ideology, the impact of gender on the individual and the social structure, the maintenance of gender inequality in the labor force, in the family, in education and in social interaction.
Exclusion: S0CC125
Prerequisite: S0CA01 and S0CB12, or permission of instructor.
Session: Winter Day
P.C. Hsiang

S0CC113 Sociology of Law and Law Enforcement
Telephone ID: 28631153
Studies of existing legal systems, the process of creation of legislation, court interpretation of law, and the law enforcement institutions.
Prerequisite: S0CB18
Session: Winter Day
J. Tanner

S0CC165 Sociology of Conflict and Co-operation
Telephone ID: 28631653
This course will first examine the functions of conflict, especially the role of conflict in the creation of moral dramas (i.e., of good vs. evil, of heroes or villains). We will examine the conflict between persons and nature and, in greater detail, the Cold War and the Arms Race. Lectures and films will be used.
Prerequisite: S0CA01Y and S0CB04 or S0CB10 or S0CB20, or permission of instructor.
Session: Winter Day
S. Unger

S0CC175 Social Change in the Third World
Telephone ID: 28631753
Sociological studies of stratification, politics, religion, education, and kinship organizations in countries of Africa, Asia, Latin America.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B level.
S0CC191 and S0CC193 (S0CB14) recommended.
Session: Winter Day
J. Lee

S0CC185 Sociology of Art and Culture
Telephone ID: 28631833
A seminar on the production and appreciation of art and culture in various societies. Lectures and discussions will focus on literature, film and painting, but students may choose from any form of "high culture" for special research.
Exclusion: S0CC177
Prerequisite: S0CA01, S0CB13 and one other B-level full-course equivalent in Sociology or permission of instructor.
Session: Summer Evening
R. O'Toole

S0CC24F Changing Family Life in Canada
Telephone ID: 28632453
Examinations of the major changes in the structure of the family in Canada, and its consequences for family life.
Prerequisite: S0CA01, S0CB12 and one other B-level full-course equivalent in Sociology.
Session: Winter Day
A. Sever

S0CC25 Comparative Ethnic and Race Relations
Telephone ID: 28632553
A comparative study of relations between diverse ethnic and racial groups in selected societies. The purpose of the course is to develop a critical understanding of the process of intergroup relations. The course will compare the patterns of intersocietal relations in North America with those in selected European countries, Africa, Asia and Latin America.
Prerequisite: S0CB20 and at least one other B-level full-course equivalent in Sociology.
Session: Winter Day
W.W. Ingram

S0CC28F Sociology of Aging
Telephone ID: 28632833
An examination of the stages of the family life cycle, with special reference to the period following middle age, and including social and psychological dimensions of aging, changing roles, departure of children, the significance of retirement, problems of adjustment to aging, the place of the aged persons in the modern family, and bereavement.
Prerequisite: S0CA01 and one B-level full-course equivalent in Sociology.
Session: Winter Day
J. Lee

S0CC38F Criminal Behaviour
Telephone ID: 28633383
An advanced study of the causes and consequences of criminal behaviour, with special emphasis on Canada.
Prerequisite: S0CB18
Session: Winter Day
J. Tanner

S0CC39F Comparative Social Structure
Telephone ID: 28633453
An examination of the institutional structure in different societies in order to develop a better understanding of the effects of structural variations on human behavior.
Exclusion: S0CC110
Prerequisite: S0CA01Y, and two B-level full-course equivalents in Sociology.
Session: Winter Day
J.L. deLannoy

S0CC34F Sociology of Mass Media and Communications
Telephone ID: 28633463
The study of the social organization of the mass media - radio, TV, newspapers, magazines and trade publications - and of the effects of the contents of mass communications on the general public.
Exclusion: S0CC117
Prerequisite: S0CA01
Session: Winter Day
J. Hamdigan

S0CC33F Social Change
Telephone ID: 28633563
The accelerating rate of social change, the uneven rate of change in sectors of our society and between various societies throughout the world, and the consequent social crises, are evident in the daily media. A convincing analysis and explanation of social change is thus obvious. This course will examine major themes of change, including industrialization, modernization, urbanization, automation, biogenetics, sexualization and militarization. We will examine competing theoretical models for the analysis of social change, and arrange student research for first-hand study of interesting aspects of social change in Canada.
Prerequisite: S0CA01, S0CB10 and one other B-level full-course equivalent in Sociology or permission of instructor.
Session: Winter Day
J.L. deLannoy

S0CC44F Supervised Independent Research
Student research by field methods, survey analysis or library or archival research.
Regular supervision of data collection and analysis, culminating in a research report.
Prerequisite: Completion of at least fifteen full-course equivalents in Sociology and permission of instructor.
Exclusion: S0CB06, S0CB91, S0CB92
Session: Summer Evening
J. Tanner

S0CC44F Supervised Independent Research
Student research by field methods, survey analysis or library or archival research.
Regular supervision of data collection and analysis, culminating in a research report.
Prerequisite: Completion of at least fifteen full-course equivalents and permission of instructor.
Exclusion: S0CA490, S0CA491, S0CA492
Session: Summer Evening
J. Tanner

S0CC428 Advanced Seminar in Sociological Theory
Telephone ID: 28644233
Special topics in contemporary sociological theory, designed as a final year course for students taking a Specialist Programme in Sociology.
Exclusion: S0CA440
Prerequisite: S0CB03 and S0CC05
Session: Winter Day
M. Hammond

S0CC453 Advanced Seminar in Research Methods
Telephone ID: 28644343
Special topics in methodologies used in contemporary sociological research. Designed as a final year course for students taking a Specialist Programme in Sociology.
Prerequisite: S0CB01 and S0CB06
Session: Winter Day
S. Unger

Courses Not Offered in 1995-96

S0CB02Y Structure of Interpersonal Relations
Exclusion: S0CC02
Prerequisite: S0CA03
S0CB05Y Urban Sociology
Prerequisite: S0CA01Y
S0CB07Y Small Groups
Limit: 12
Prerequisite: S0CA01
S0CB02Y Sociology of Education
Primary and Secondary Levels
Exclusion: (S0CB24 and
Students in this Programme, or in the Modern Languages Specialist Programme, may satisfy some of their Programme requirements through the Study Elsewhere Program, which is administered by the University of Toronto in Grimsby.

Major Programme in Spanish Language

Supervisor: R. Skymes (287-7147)

This programme offers a variety of courses in Spanish language, literature, and the culture of Spain and Spanish America. Seven full-course equivalents are required as follows:

SPA001Y Introductory Spanish
SPA000Y Introductory Spanish Language Practice
SPA010Y Intermediate Spanish
SPA020H Intermediate Spanish Language Practice
SPA040Y Phonetics
SPA125S History of the Spanish Language
SPA140F The Civilization of Spain I
SPA155S The Civilization of Spain II

or

HUM14Y Topics in Latin American Culture and Literature

3 Language and Hispanic Culture

Intended for native speakers or permission of Supervisor.

SPA040F Phonetics
SPA114F The Civilization of Spain I
SPA115S The Civilization of Spain II
SPA120Y Advanced Spanish
SPA212F Literary Language
HUM14Y Topics in Latin American Culture and Literature

4 Latin America

Intended for native Speakers or permission of Supervisor

SPA040F Phonetics
SPA012Y Literary Language
SPA010Y Advanced Spanish
ANTH100Y The Americas: An Anthropological Perspective
PREM100Y Prehistory of Mexico and Central America
HUM14Y Topics in Latin American Culture and Literature
SOC179Y Social Change in the Third World

Students should check these courses for prerequisites.

SPA010Y Introductory Spanish and
SPA012H Introductory Spanish Language Practice

These two courses must be taken simultaneously. Students who select SPA010Y will automatically be registered in the appropriate section of SPA012H.

SPA012H Introductory Spanish Language Practice

Telephone ID #: 28710163

An elementary course for students with no knowledge of Spanish. Elements of Spanish grammar are studied and special emphasis is placed on oral practice. This course stresses the development of the practical skills of understanding and speaking needed for the composite SPA012H. Lecturer: Dr. J. A. G. Riddle. This course corresponds to SPA001Y. Students are encouraged to use the Language Resource Room (B104) to practice grammar and vocabulary skills with the help of specific computer programs.

SPA212Y Intermediate Spanish

Telephone ID #: 28710163

A continuation of SPA012H. Through oral practice, reading, videotape material, composition, translation, and discussion, this course will follow the format and methodology of SPA012H at a more advanced level. Three hours per week. Exclusions: SPA200, SPA201, SPA202, SPA203 (for Major Programme in Spanish Language)

SPA212Y Intermediate Spanish Language Practice

Telephone ID #: 28710163

A companion course to SPA212Y. This course concentrates on an intensive review of Spanish grammatical principles in the context of written exercises, compositions, and
translations. It includes reading and discussion of a short contemporary work of literature.
Exclusion: SPA220
Prerequisite: OAC Spanish or Grade 13 Spanish or SPA201 and SPA202
Corequisite: SPA201
Session: Winter Day
R. Gold
Offered 1994/95 and 1995/96

SPAC01Y Advanced Spanish
Telephone ID: 28730163
Intensive study of grammar and syntax; translation, composition, and oral practice.
Detailed examination of the abilities of Spanish grammar through intensive practice in translation from and into Spanish, composition, and conversation. Three hours per week in a tutorial format.
Exclusion: SPA220
Prerequisite: SPA201
Session: Winter Day
R. Szyme
Offered 1994/95 and 1995/96

SPAC025 Business Spanish
Telephone ID: 28730253
The Spanish language in a business context.
The course is designed primarily for students in the Management/Language Program but is open to all those interested in sharpening language skills particular to a career in the commercial world. Class sessions will be practical in focus and consist of such activities as translation, correspondence, and individual and group oral presentations, complemented, where possible, by audiovisual and computer material. The aim is to develop facility in the vocabulary and structures of this specialized use of the Spanish language.
Pre or Corequisite: SPA030Y
Session: Winter Day
E. K совсем не
Not offered 1994/95
Offered 1995/96

SPAC027 Literature Language
Telephone ID: 28732133
The examination of Spanish literature in relation to the resources of the language.
The translation and analysis of texts and the challenges of creative composition offer students who enjoy the shaping of language the opportunity to refine their reading and writing skills by exploring the expressive flexibility of Spanish used in a variety of literary contexts. Two hours per week in a workshop format which requires active class participation.
Exclusion: SPA221
Prerequisite: SPA201
Session: Winter Day
R. Szyme
Offered 1995/96
Not offered 1996/97

SPAC027 History of the Spanish Language II
Telephone ID: 28732233
The Spanish language from the medieval period to the present.
Through analysis of texts from the ninth to the twentieth centuries, this course will focus on inherent changes in and external influences on the development of Castilian from a dialect in the medieval period into one of the major languages of modern times.
Two hours per week in tutorial format.
Exclusion: SPA222E, SPA425
Prerequisite: SPA212
Session: Winter Day
R. Szyme
Offered 1995/96
Not offered 1996/97

SPAC035 Statistics
Telephone ID: 28730055
Supervised Reading
Specific topics in that is possible to study in the training and literature of Spanish and Latin American literature, linguistics, and culture. These courses offer students as an opportunity to pursue advanced independent study under the supervision of a faculty member in Spanish. Students should present to a prospective supervisor a written outline of a thesis they wish to explore and a rationale for their choice. The topic should be clearly related to the student’s previous work but should differ significantly in content and quality from material studied in regular courses. Student and instructor will work out the course’s objectives, methods of approach, content, bibliography, and timetable.
Interested students should contact the Supervisor of Studies for guidance.
Exclusion: SPA202-C06, C07, C10, C11, C15, SPA440
Prerequisite: SPA201
Session: Winter Day
R. Gold, P. Loro, R. Szyme
Offered 1994/95 and 1995/96

Also see the following courses offered under Humanities:
HUMB437X The Modernist Adventure
HUMB455 The Spanish Civil War: Fact to Fiction

HUMC14Y Topics in Latin American Culture and Literature
Course Not Offered in 1995-96

SPAB004
Prerequisite: Exclusion: SPA223
Pre or Corequisite: SPA301
Offered 1994/95
Not offered 1995/96

SPAB123
Exclusion: SPA223
Prerequisite: SPA204
Offered 1994/95
Not offered 1995/96

SPAB14F The Civilization of Spain I
Exclusion: (HUMB13), (HUMB90, HUMB90); SPA225
Offered 1994/95
Not offered 1995/96

SPAB15S The Civilization of Spain II
Exclusion: (HUMB13), (HUMB90, HUMB90); SPA250
Offered 1994/95
Not offered 1995/96

SPAD09Y Golden Age Spanish Drama
Prerequisite: One level course equivalent in Drama and permission of the Instructor
Not offered 1995/96

Statistics
Discipline Representative: S. Chaudhuri (287- 7252)

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modelling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics and physics.
Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling to the design and analysis of models to determine the relative efficacies of different vaccines.

STAB232F and STAB475 serve as an introduction to the discipline. The C-level courses build upon the introductory material to provide a deeper understanding of statistical methodology and its practical implementation.

Please refer to the Physical Sciences section and the Mathematics and Statistics section for the following Programmes.

Specialist Programme in Computer Science and Statistics

Specialist Programme in Co-op Computer Science and Physical Science

Specialist Programme in Mathematics and Statistics

Major Programme in Mathematical Sciences (Statistics)

Major Programme in Statistics

The Major Programme in Statistics is no longer offered. Students currently registered will be allowed to complete it.

STAB22F Statistics
Telephone ID: 2892233
This course is an introduction to probability and statistics. The emphasis of the course is on motivation and applications and the treatment is essentially non-mathematical. A statistical computer package is used for some computations; however, no previous experience with a computer is required. The course covers descriptive statistics, probability and expectation, correlation and regression, sampling, experimental design and methods of statistical inference. Exclusion: ANTIC3S, DIB282, ECOB90, ECOB10, ECOB11, GGRB31, PSTD17, SOC300, STAB25S, STAB250
Session: Winter Day

STAB475 Introduction to Probability Theory and Mathematical Statistics
Telephone ID: 2862475
This course is an introduction to the mathematical theory of probability and statistics. The course covers: probability models, marginal and conditional probability, expectation, the Weak Law of Large Numbers and theCentral Limit Theorem, statistical models, the likelihood function, estimation, hypothesis testing, linear models.
Exclusion: STA222, STA242
Prerequisite: STAB22F (one of its exclusions and MATH141)
Session: Winter Day

STAC425 Multivariate Analysis
Telephone ID: 2873542
Linear algebra for statistics. Multivariate distributions, the multivariate normal and
alternative theories and methods designed by feminist scholars to be sensitive to the realities of women as well as men.

Prerequisite: WSTAG01Y
Session: Winter Day
P. Sayne
Not offered 1994/95
Offered 1995/96

WSTB11Y Race, Class and Gender
Telephones ID: 31721163
An overview of the complex interactions between three socially significant variables: race, class and gender in traditional and modern societies.

Drawing on both historical and contemporary patterns in diverse societies, the course offers feminist perspectives on the ways in which class as well as ethnicity or race have shaped the lives of women and men.

Prerequisite: WSTAG01Y or permission of instructor.
Session: Winter Evening
TBA
Not offered 1994/95
Offered 1995/96

WSTB12F Women: Issues of Violence and Safety
Telephones ID: 31721233
An analysis of violence against women and of current and potential initiatives toward creating safety.

The first part of the course will examine aspects of public and private violence against women such as ‘wife assault’, elder abuse, sexual harassment and other forms of assault within a historical, cultural and structural context. The second part will explore initiatives toward making communities safer, including strategies for prevention and education.

Prerequisites: WSTAG01Y or permission of instructor.
Session: Winter Day
C. Guberman
Not offered 1994/95
Offered 1995/96

WSTC01Y Women and Development
Telephones ID: 31731065
An examination of the role of women in developing countries, how development affects these women and the potential impact that women have on the development process.

Concerns which might be discussed include: the meaning of development for women; the division of labour, food production, and technology; fertility and family planning; migration patterns; the impact of economic development on women's roles, work and family life; women's influence on development and change; development strategies which include women.

Prerequisites: WSTAG01Y or permission of instructor. Recommended: IDS8025Y or IDS8023
Exclusion: NEW452Y
Session: Winter Day
P. Sayne
Not offered 1994/95
Offered 1995/96

WSTD01H Senior Project in Women's Studies
Telephones ID: 31740143
Students will choose a topic of special interest to them from an area in which they have done some concentrated study, and undertake an in-depth investigation of the topic under the supervision of a Women's Studies faculty member.

Arrangements with the supervising faculty member must be made by the student before the end of the spring pre-registration period. A substantial essay, research project, or major presentation on the approved topic will be given to the supervising faculty member and a second evaluator will be appointed.

Exclusion: IDS8025H
Prerequisites: WSTAG01Y, one of WSTD805P, WSTD806P, or WSTD806S, and two PCE's from the list in #3 of the Major Programme in Women's Studies (or permission of the instructor).
Session: Winter Day
Staff
Offered 1994/95 and 1995/96

Courses not offered in 1995/96

WSTD805SF Feminist Approaches to Science
Prerequisite: WSTAG01Y
Offered 1994/95

WSTD806H Women's Studies: Research and Methods
Prerequisite: WSTAG01Y, WSTD805SF and two full-course equivalents from the list in #3 of the Major Programme in Women's Studies (or permission of instructor).
Offered 1994/95

Together with a seminar, the course provides an introduction to writing in women's studies. The seminar provides an opportunity for students to develop their own research projects and to work on them under the supervision of one of the course instructors.

A seminar in one of the following topics will be offered:

1. Feminist Approaches to Science
2. Women's Studies: Research and Methods
3. Feminist Approaches to Education
4. Feminist Approaches to Law
5. Feminist Approaches to the Family

Each seminar will be given a number: e.g., Seminar 1, Seminar 2, etc. The seminar will be taught by one of the course instructors.

In addition to the seminar, the course will include lectures and discussions on various aspects of feminist research and methodology.

The seminar programme maintains a large mailing list by which prospective members are given full details of the events for each summer. Students at Scarborough College are invited to contact either Professor Andrew Paterson or Ms. Joanna D. Hunter (287-7117) who will be pleased to provide them with further details of the programme. For inclusion on the mailing list, students should contact Ms. Hunter (287-7117) who will be pleased to provide them with current newsletters, and ensure that they receive future newsletters. Full-time students to the age of 25 are provided with generous burnout subsidies to defray the cost of theatre tickets.

The seminar programme also organizes theatre outings during the academic year and occasionally brings distinguished actors into the college for seminars and master classes.

Since 1987, the program has also conducted an annual theatre history seminar in the United Kingdom, usually during Reading Week. Over sixty pre-released plays have been visited in London and the south-east, and an all-female tour has followed unsuccessful visits to London and Opera Houses in the north of England.
Admissions

The following is a brief description of the admission policies and procedures of the University of Toronto. Full information may be obtained from:

Admissions and Awards
University of Toronto
315 Bloor Street West
Toronto, Ontario, Canada
M5S 1A3

Telephone enquires: (area code 416)
Admissions - 978-2190
Secondary School Liaison - 978-2771
Scarborough Campus Secondary School Liaison - 287-7563

General Admission Requirements to Scarborough College, University of Toronto
Candidates Applying from Ontario Secondary Schools
Admission Requirements for 1990-94
- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD).
- Applicants must present at least six (6) Ontario Academic Credits (OACs).
- One credit must be OAC English I or English II.
- Applicants must present credits to satisfy any prerequisites of specific courses or specific programmes in which they intend to enrol.
- Applicants whose native language is not English and who have not studied full-time in an English language school system for more than two full years will be required to present proof of English facility by achieving appropriate standing on one of the following tests accepted by the University of Toronto: Test of English as a Foreign Language (TOEFL); Michigan English Language Assessment Battery; British Council English Language Testing Examination; Certificate of Proficiency in English Test (CPE/ENLP).

Notes:
- An English language school system must be located in a country where the first (native) language is English.
- Two full years refers to the successful completion of at least four courses in each of two regular academic years.
- Students who have not studied full-time in an English language school system for more than two full years may be exempted from presenting OAC English.

1 among the six required OACs. Consult with Admissions and Awards regarding English Facility Requirements.
Note: The above English Facility policy is currently under review.
1972 to present: 6 Grade 13/OAC credits are required. Before 1972: 7 Grade 13 credits are required.

Prerequisites
Students should choose OACs which will fulfill the prerequisites for university courses they intend to take. These prerequisites are listed at the end of this section on page 000 and after the description of each course in the Calendar.

The average required for admission varies from year to year. Students are selected by taking into consideration a wide range of criteria including secondary school marks, distribution of subjects taken, performance in subjects relevant to the academic programme selected, results in senior division prerequisite courses, and supplementary information obtained through the Student Profile.

Other Canadian provinces
Alberta, Manitoba, Nova Scotia, Saskatchewan
- Grade 12
  British Columbia
    - before 1969: Grade 13 or 1st year University of British Columbia
    - 1969 to present: Grade 12
  New Brunswick
    - before 1970: Grade 13 or 1st year University of New Brunswick
    - 1970 to present: Grade 12
  Nova Scotia
    - before 1980: 1st year Memorial University
    - 1980 to present: Grade 12
  Prince Edward Island
    - before 1980: 1st year University of Prince Edward Island
    - 1980 to present: Grade 12
  Quebec
    - 12 academic C.E.G.E.P. courses

Admission with Transfer Credit
Students who have completed work at other universities or at other Faculties or Schools of this University may be considered for admission with advanced standing credit.
Credit is granted only for work which is considered appropriate for inclusion in an Arts and Science programme at the University of Toronto.

Now that students transferring to the University of Toronto are required to complete at least half of their degree credits and half of their programme requirements as Scarborough College students. Students transferring from other divisions of the University of Toronto are exempt from this requirement.

Admission from Colleges of Applied Arts and Technology
1 Candidates who have completed a one-year CAAT programme (or one year of a two- or three-year CAAT programme) are not eligible for consideration for admission to the first University year unless they have also completed the final academic secondary school year of the jurisdiction in which they attended secondary school.
2 Candidates who have completed a two-year CAAT programme (or two years of a three-year CAAT programme) are eligible to be considered for admission to the first year of a degree programme.
3 Candidates who have completed a three-year CAAT programme are eligible to be considered for admission with up to five transfer credits.

International Baccalaureate
Candidates who have completed the Diploma with at least 13 points from the higher level subjects and 24 points in total, may be considered for admission and awarded transfer credit for each higher level subject at a grade of 5, 6 or 7.

Other Countries/Other Qualifications
Candidates who wish to apply for admission on the basis of work completed in other countries or on the basis of other qualifications should write to Admissions and Awards, outlining their academic qualifications and intended area of study.

Mature Students
Applications who do not hold the published admission requirements may be considered for admission if:
1 they are at least 21 years of age by July 15 of the Summer Session or by October 1 of the Winter Session, and
2 have been resident in Ontario as a Canadian citizen or permanent resident for a minimum of twelve months by the above date, and
3 achieve high standing in one Pre-university course, or
All other applicants should request application forms from Admissions and Awards, giving full details of their educational background and standing.

Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates must offer written evidence of exceptional ability, or of extenuating circumstances. Applicants who matriculated prior to the current year are advised to telephone or write to Admissions and Awards for information.

Possession of minimum requirements does not guarantee acceptance. Because of limitation of space, preference will be given to applicants with the best qualifications. The University of Toronto reserves the right to determine whether or not credentials of degree-granting institutions in Ontario meet the standards for admission to University of Toronto programs.

Application deadlines

Applicants are strongly advised to submit application forms well in advance of the following deadlines:

Admission to the 1993 Winter Session: (beginning in Sept.)

- Full-time study - April 1
- Part-time study - June 1

Notes

- Applications will not be accepted for entry to the January term.
- Out-of-Canada applicants should apply at least six weeks before these dates.
- Applicants to the Co-operative Programmes should also apply early, by March 1, to allow sufficient time to receive, complete, and return the special Co-op Programmes application form by April 15.
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<td>Drawing, Painting</td>
<td>Drawing, Painting</td>
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Note: This table represents the general prerequisites for various programs. Actual requirements may vary depending on the specific program and institution.
Unless specified the following awards do not require an application; all Scarborough College undergraduate degree students with excellent academic standing are considered. The official award records are on file in the Office of the Registrar (Room 5415). Scarborough College is also eligible for consideration for general University of Toronto scholarships and bursaries in addition to the awards listed below. Students should check the "Awards" binder in Room 5415. 

A general condition for holding an entrance or in-course award is that the student must register at Scarborough College in the following academic year. Students who have been awarded a scholarship which is based on enrolment in a particular programme of study must continue in that programme to receive the award. Scarborough College may not award a scholarship, if, in a particular year, the academic achievement of the candidate is not of high standard.

Admission awards
A substantial number of admission scholarships are awarded each year on the basis of excellent academic standing. Successful applicants will be notified at the time they receive an offer of admission to the University.

University of Toronto Scholars Programme - National Scholarships
The National Scholarship Programme recognizes the very best students from secondary schools across Canada. Each secondary school is invited to nominate its most outstanding graduating year student to receive a National Book Award. The student is then eligible for consideration for a University of Toronto National Admission Scholarship. Five National Scholarships are awarded each year. The scholarships have a value of $5,000 per year for four years, and include free residence for the first year. Finalists in the National Scholarship competition will receive Arbor Scholarships which are similar to the National Scholarships, but with a value of $2,500 per year. Ontario secondary school students should contact their high school guidance office for further information. All other students should write to University of Toronto, Admissions and Awards, 315 Bloor St. W., Toronto, Ontario, MSS J3A.

University of Toronto Scholars Programme - Admission Scholarships
The University of Toronto will honour the most outstanding admission applicants, each year, to the University. These scholarships, which have a value of $1,500, may be held in any programme of study at the University, and in conjunction with the faculty or college admission awards. Approximately the top 120 students entering the University can expect to be selected as University of Toronto Scholars.

Plumptre Admission Scholarship
Awarded to the student entering first year whose academic achievement in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Professor A.F. Wyman Plumptre, a former principal of Scarborough College.

Frederick A. Urquhart Admission Scholarships
Eight scholarships are awarded to students entering first year on the basis of exceptional academic achievement in secondary school. The scholarships are awarded in honour of Professor Frederick A. Urquhart, a distinguished entomologist.

University of Toronto, Scarborough College Admission Scholarships
Approximately forty scholarships are awarded to students on the basis of excellent academic achievement.

Scarbrough College Alumni Admission Award
Awarded to a graduate of a City of Scarborough high school (other than separate) who has provided evidence of valuable community service and demonstrated high academic standing. Applications are submitted to Scarborough College in February.

Scarbrough Alumni Entrance Scholarship
Awarded to a student entering first year on the basis of academic excellence in the secondary school programme.

Warner-Lambert Admission Scholarship
Awarded to a student entering first year on the basis of academic excellence in the secondary school programme.

Tang Sun Tang Memorial Entrance Scholarship
Awarded to a student on the basis of excellent academic achievement in the secondary school programme. Donated by the Federation of Chinese Canadian Professionals (Ontario Education Foundation).

In-course awards
University of Toronto Scholars Programme - In Course Scholarships
The University will identify outstanding undergraduate completing 1st, 2nd and 3rd years as University of Toronto Scholars. It is expected that these top students will receive awards of at least $1,000. The first awards under this programme will be made to students completing first year in 1993.

A. D. Allen Scholarship
Awarded to the outstanding student in each year at Scarborough College, in any field of study. The scholarships are awarded in memory of Dr. A. D. Allen, a former principal of Scarborough College.

Vincent Bladen In-course Scholarships
A total of six scholarships are awarded on the basis of exceptional academic achievement at the completion of each year of study. The scholarships are awarded in memory of Professor V. Bladen, a former member of the faculty in Economics.

Scarbrough College Incourse Scholarships
Awarded to the outstanding students in each year at Scarborough College.

Stanley Keets Todowr Scholarships
Awarded on the basis of academic excellence to one or more students registered in a Life Science or Physical Sciences programme which leads to a Bachelor of Science degree.

Norman F. Brown Memorial Award in Humanities
Awarded to a student enrolled in the second or third year of a programme in the division of Humanities on the basis of excellent academic achievement.

The Hudson's Bay Company Scholarship
Awarded to the student who has demonstrated outstanding academic achievement at the end of third year.
The University of Toronto Women's Association Lone Dove Memorial Scholarship
Awarded to a student on the basis of excellent academic achievement in the third year of a four year undergraduate degree programme.

The Al Tayyeb Scholarship
Awarded to a student who demonstrates excellent scholarship in political geography, geography of resources, studies of developing nations, Canadian studies, or an appropriate related field. The scholarship is awarded in memory of Professor Ali Tayyeb, a former member of the faculty in Geography. Suitable candidates are nominated by members of the Scarborough College faculty.

Scarbrough Campus Student Council Prize
Awarded to a student in good academic standing entering the second, third or fourth year who has made an outstanding contribution to the Academic, Social or Cultural life of Scarborough College. Application required.

Blackman Prize in Economics
Awarded on the basis of an essay submitted by a student specializing in Management or Economics on any subject covered by a B, C or D level course in Economics.

Tom McFetish Prize in Anthropology
Awarded to the outstanding student entering the final year of the Major or the Specialist Programme in Anthropology.

John Pounder Prize in Astronomy
Awarded to a full-time student entering the third year of a physical sciences programme on the basis of excellent achievement in Astronomy and one B or C level course in Astronomy.

John S. Moir Prize in Canadian History
Awarded to the student with the highest standing in HIST101Y Introduction to Canadian History.

William Baetsone Memorial Prize in History
Awarded to the student completing third year, who in the opinion of the members of the teaching staff in History, has excelled in the study of History.

Awarded in memory of the late William Baetsone, a History graduate of Scarborough College.

The Morrie Krower History Prize
Awarded to a student entering the third year of the Major or Specialist Programme in History on the basis of academic performance (a student B standing) and financial need. Emphasis is placed on academic performance. Application required.

Defenderer Essay Prize
Awarded on the basis of an essay, 2500 to 5000 words in length, on any topic within the general field of Canadian studies. The essay should have Canada as its primary, principal or exclusive focus. Essays are normally those submitted for course work and nominated by instructors. However, students may also submit a copy of their essays to either the Chair of the Division of Humanities or the Chair of the Division of Social Sciences by April 30. Include a cover page showing full name, student number and the name of the course for which and professor to whom the essay was originally submitted.

McClelland and Stewart Essay Prize in Canadian Studies
Awarded on the basis of an essay, 2500 to 5000 words in length, on a topic focusing on Canadian art, drama, music or literature. Essays are normally those submitted for course work and nominated by instructors. However, students may also submit a copy of their essays directly to the Chair of the Division of Humanities by April 30. Include a cover page showing full name, student number and the name of the course for which and professor to whom the essay was originally submitted.

The Oxford University Press English Essay Prize
Awarded for the best essay written for an English course, in the past academic year. Essays are nominated by instructors.

The Margaret H. McCoy Johnston Scholarship
Awarded to the student enrolled in a major or specialist programme(s) in a modern language who, on entering the third or fourth year, has the highest grade point average in courses taken to satisfy the programme(s). (minimum GPA 3.5)

Anita Fick/Ronald Price in Women's Studies
Awarded for the best essay in the area of Women's Studies. Essays are nominated by instructors.

Dr. Vivian Paskin Memorial Prize in Psychology
Awarded to a full-time student entering the fourth year of the Specialist Programme in Psychology on the basis of excellent academic achievement.

The Katherine Nagel Philosophy Prize
Awarded to the student in the Major or Specialist Programme in Philosophy before the beginning of the third or fourth year of study whose grades and performance in Philosophy, in the opinion of the Faculty in Philosophy, have best demonstrated excellence in the subject.

Mangecon Scholarship in English
Awarded to an outstanding student who has completed the second year of the Major or Specialist Programme in English.

Leigh Lee Browne Scholarship in Drama
Awarded to a student displaying outstanding ability in the dramatic arts who is either continuing in a Drama Programme at Scarborough College or is graduating and has registered in an advanced training programme in the dramatic arts. Application required.

The Gitchilick Award in Cell and Molecular Biology
Awarded to the student entering the fourth year of study in the Specialist Programme in Cell and Molecular Biology who has completed at least ten of the required full course equivalents of the Programme requirements and who has the highest grade point average in the Programme (minimum 6.0/7.0 GPA).

The Gitchilick Award in Computer Science
Awarded to an excellent student entering the third year of a Major Programme or fourth year of a Specialist Programme in Computer Science.

The Gitchilick Scholarship in Terrain and Environmental Earth Sciences
Awarded to the student in the Specialist Programme in the Terrain and Environmental Earth Sciences who has the highest aggregate standing at the end of the third year of study in the required courses of the Programme.

The Gitchilick Scholarship in Physical Sciences
Awarded to the outstanding student who has achieved at least an average of A- on full credits, of which three must be physical sciences courses, in the first year of full-time study and (ii) is registered as a full-time student in a physical sciences Specialist Programme in second year.

Arthur Louden Scholarship(s)
Awarded to one or more students graduated in the Early Teacher Project (open to students enrolled in Physical Sciences Scarborough programmes) on the basis of academic achievement (minimum 3.3 gpa)

Hawthorn-Packer Calculating Award
Awarded to students entering a Specialist Programme in Computer Science who have demonstrated excellence in sciences and computer sciences.

The Scarborough College Physics Prize
Awarded to the student in a Physics Specialist or Major Programme, including joint Programmes, who has the highest combined grade point average in PHY101, PHY103, PHY104, PHY117 and PHY119, provided that the average is at least 3.3 (B+).

The William D. Peak Award in Biology
Awarded to a full-time student entering the second year of any programme in the biological sciences on the basis of excellent achievement in BIOA03Y Introductory Biology (minimum 3.3 gpa / B plus). Emphasis will be placed on the laboratory component of the course and overall contributions to the class.

Scarbrough College Prize in Biology
Awarded to a full-time student entering the fourth year of a specialist programme in biological sciences on the basis of excellent academic achievement. Emphasis will be placed on achievement in the third year of study.

Brian David Radford Memorial Scholarship in Management
Awarded to one or more students entering the third or fourth year of a Management programme whose academic and aesthetic achievement, combined, best exhibit dedication to excellence. (Minimum grade point average of 3.7/B+). Application required.

Management Accounting Student of Merit Scholarship
Awarded to the student who has completed the third year of study in the Specialist Programme in Management and Mathematics, and who has completed the following courses with the highest average
North Scarborough Rotary Club Scholarships
One scholarship is awarded to a student in a Management Programme and one is awarded to a student in a Political Science Programme. Candidates must be Canadian citizens or Permanent Residents, graduates of a City of Scarborough secondary school and have achieved a cumulative grade point average of at least 3.3 (B+). Application required.

Ernst & Young of Scarborough Award in Management
Awarded to an outstanding student entering third or fourth year in a Management Programme, who has achieved a cumulative grade point average of at least 3.3.

The Harvey Rabin Award in Financial Accounting
Awarded to a student completing the third year of the Specialist Programme in Management and Management and Economics with the highest grade (at least A minus) in MGTC01Y.

Donated by Paul Marwick Thorne.

Jean Black Memorial Scholarship in Management
Awarded to a student enrolled in a Management programme on the basis of excellent academic achievement. Preference will be given to a student entering fourth year who has completed the Finance courses, MGTC02H and MGTC05H, with high standing.

Donated by Canadian Union of Public Employees Local 2161.

Warner Lambert Arts Administration Scholarships
One scholarship will be awarded to a student enrolled in the Co-operative Programme in Arts Administration who has demonstrated outstanding academic achievement. One scholarship will be awarded to a student enrolled in the Co-operative Programme in Arts Administration who has demonstrated outstanding achievement on the work placement.

SKF Canada International Development Scholarship
Awarded to the student enrolled in the Co-operative Programme in International Development Studies who has demonstrated outstanding academic achievement.

Washington United Church U.C.W.
International Development Scholarship
Awarded to a student entering the third year of the Co-operative Programme in International Development Studies on the basis of outstanding academic achievement.

Canadian Society for Chemistry Silver Medal
Awarded to a student entering the fourth year of a specialist programme in chemistry who has achieved the highest standing in the programme in third year.

Canadian Society for Chemistry, Toronto Section Book Prize
Awarded to the most improved student entering the fourth year of a specialist programme in chemistry.

Division of Physical Sciences Book Award in Chemistry
Awarded to a student entering the third year of a programme in chemistry based on academic achievement in the courses required for the programme (a minimum of three chemistry courses must be completed to be considered).

Rohm & Haas Canada Scholarship in Chemistry
Awarded to an outstanding student entering third year of a major programme in chemistry or fourth year of a specialist programme in chemistry.

Andrew Young Memorial Scholarship in Sino-Canadian Studies
Awarded to an undergraduate whose academic performance and extra-curricular activities in the area of Chinese Studies and Sino-Canadian studies best exhibits commitment to Chinese-Canadian cultural and academic ties.

Samuel Stanley In-Course Scholarships
Awarded to students enrolled in second, third or fourth year, in a Specialist Programme offered by the departments of Mathematics, Physics or Computer Science (Faculty of Arts and Science, Scarborough College) on the basis of academic performance and financial need. Application required.

APUS Scholarships
Awarded to a student graduating with a four-year degree who has completed either the Neuroscience Specialist or Major Programme, who in the judgement of the Faculty, has demonstrated the most outstanding academic and laboratory performance.

APUS Award for the University of Toronto's Singapour Campus
Part-time undergraduate students who (a) have completed at least five full courses with a B average (G.P.A. of 3.0) in the last five full courses, and (b) have demonstrated outstanding achievement or commitment in activities distinct from their University studies or have overcome adverse circumstances in order to attend University, may apply. Application required.

Graduation prizes
Graduation Prizes in Humanities, Life Sciences, Management & Economics, Physical Sciences and Social Sciences
Awarded to the outstanding student of the graduating class in each of these areas of scholarship.

All Tellay Prize
Awarded to the outstanding student of the graduating class in Geography.

The Ivins Publishing Prize in Classical Studies
Awarded to the outstanding student of the graduating class in each of these areas of scholarship.

Ferris Prize in Psychology
Awarded to the outstanding student of the graduating class who has completed the Specialist Programme in Psychology.

CGA Ontario Award for Excellence
Awarded to an outstanding graduating student completing a Management Programme who has displayed excellent achievement in accounting, with grades not less than a C minus in each of MGTC01Y and MGTC05Y.

The Graduation Prize in Sociology
Awarded to the student who has achieved the highest scholastic average (grade point average) in either the Sociology Specialist or Major Programme. The grade point average is based on all sociology courses attempted.

CGA-GENY Award in Neuroscience
Awarded to a student graduating with a four-year degree who has completed either the Neuroscience Specialist or Major Programme, who in the judgement of the Faculty, has demonstrated the most outstanding academic and laboratory performance.

The Gold Medal Graduation Prize in Computer Science
Awarded to an outstanding member of the graduating class who completed a Major or Specialist Programme in Computer Science.

The Gold Medal Graduation Prize in Cell and Molecular Biology
Awarded to an outstanding member who has completed a Specialist Programme in Cell and Molecular Biology (minimum B+3.0 GPA).

The Society of Chemical Industry Student of Merit Award
Awarded to a member of the graduating class who has completed a Specialist programme in chemistry and achieved the highest standing in the final year. (Minimum GPA of 3.075%) has completed the degree within the normal number of years.

Ophrine Prize in Humanities
Awarded to an outstanding member of the graduating class who has completed the College Programme in the Humanities, the Major Programme in Music History and Literature, or the Specialist Programme in the Arts.

Graduation Prize in Political Science
Awarded to an outstanding member of the graduating class who has completed a programme in political science.

Digital Equipment of Canada Limited Award of Merit
Awarded to the outstanding student graduating in Computer Science in the University.

John H. Morse Scholarship
Exceptional all round students graduating in the spring who intend to enter a graduate or second undergraduate degree program should request an application for this prestigious scholarship from the University of Toronto Alumni Association in the fall. The deadline is normally in January.

Scarbrough College Honours List
Scarbrough College publishes annually an honours list, including the names of all degree students who have achieved a grade point average of 3.70 or better in their most recent year of full-time study or equivalent amount of part-time study. Students are considered for the honours list at the end of the session in which they complete their 5th, 10th, 15th and 20th
credit. Other students may be nominated by the academic divisions of the college.

Graduation With High Distinction and With Distinction
Scarborough College students who have completed at least ten full courses while registered at Scarborough College or at the University of Toronto’s Faculty of Arts and Science will graduate with high distinction if their cumulative grade point average is 3.50 or better and will graduate with distinction if their cumulative grade point average is between 3.20 and 3.49. Other students with a cumulative grade point average of 3.20 or better will be considered on an individual basis.

Bursaries
University of Toronto Undergraduate Bursaries
Applicants for bursaries must demonstrate financial need. Applications may be obtained from the Counselling Services Office. Deadline: November 1; however, applications will be accepted after this date should emergencies arise and funds are still available.

Gavin Litwenski Memorial Bursary
Awarded to a student enrolled in the Co-operative Program in International Development Studies returning from work placement to complete the fifth and final year. Given on the basis of financial need. Where two or more students qualify on this basis, the students’ contribution to the program and college will also be considered. Application required. Deadline: September 30.

Edward A. Pilkington Placement Bursaries in Arts Administration
Awarded to students enrolled in the Co-operative Program in Arts Administration undertaking Placement, on the basis of financial conditions during Placement. (Applications are required.) Donated by the Corporation of Massey Hall and Roy Thompson Hall.

The MacDonald Bursary
Awarded to a full-time degree student registered in second, third or fourth year who achieved at least a Grade B standing in the previous year and who can demonstrate financial need.

Ontario Student Assistance Programmes
Canadian citizens or permanent residents who have established themselves as Ontario residents, and who demonstrate financial need, may be eligible for interest-free loans or grants. Applications are available from the Counselling Services Office. The Admissions and Awards inquiry number is (416) 978-7950.

Academic Regulations

Student Responsibility
Students are responsible for making themselves familiar with the information in this section, as well as instructions published by the Registrar periodically. Students whose registration carries the regulations will be withdrawn from courses.

Calendar Changes
The information published in this calendar outlines the rules, regulations, curricula and programmes for the 1993 Summer Session (May to August) and the 1993-94 Winter Session (September to May). The College reserves the right to change without notice any information contained in this Calendar, including any rule or regulation. The publication of information in this Calendar does not bind the University to the provision of courses, Programmes or facilities as listed herein.

Enrolment Limits
Scarborough College reserves the right to limit the number of registrants in any Programme or course where the number of qualified students exceeds the teaching or other resources available. As far as practicable, places will be available for incoming students in A-level courses.

Photo Identification Cards
All students are required to have a photo identification card. The identification card serves as both a proof of registration and a library card. Once fee payment for the session has been received, the card must be presented to the Office of the Registrar for validation. The validation stickers remain in effect from September to August. Therefore, if it is not necessary for a 1993 Summer Session student who was registered in the 1992/93 Winter Session to present the card for validation again until the 1993/94 Winter Session, students who do not have a photo identification card should obtain one from the Registrar’s Office. Cards are provided free of charge to all new students. A fee is charged to replace cards.

Students in debt to the University
Scarborough College imposes the following academic sanctions on students in debt to the University:
Course Selection

In selecting their courses, students must adhere to the following regulations:

1. Prerequisites and corequisites for each course, as stated in the course descriptions, must be met, unless waived by the Department.
2. Students may not register for credit for a course if they have already passed another course shown in the course description as an exclusion to that course.
3. Students may not re-register for credit in a course if they have already passed that course. Students may re-register in a course they have taken if they have not passed it.
4. Registrations made after the deadline for the last day of the class term may be required to sit an examination during the day.
Registration

Registration consists of two basic steps:
1. Course selection, and
2. Fees payment

Both must be completed by the appropriate deadlines in order to be considered a "registered" student and to retain a place in any course selected. (See deadlines and further information, see the registration material published separately for each session.)

Course selection

Courses may be selected either through the Student Telephone Service or by submitting a registration form directly to the Registrar's Office. (For regulations on course selection, see page 221.)

Fees payment

The University Fees Department publishes a schedule of fees for each session. The schedule for the 1993 Summer Session will be included in the registration package.

The schedule for the 1993-94 Winter Session will be available in June. Further information on fees may be obtained from the Fees Department, University of Toronto, 215 Health Science, Toronto, Ontario, M5S 1A2; (416) 978-2142.

Programme registration

Programme registration takes place in the Winter Session only. All degree students with at least 4.0 credits are required to register in their Specialist, Major, College or Minor Programmes. Students may only register in Programmes offered by Scarborough College. (For regulations governing Programmes, see page 224 of this Calendar.)

Summer Session

1993 Summer Session registration begins on April 5. Students who registered at the College in the 1992 Summer Session or the 1992-93 Winter Session and who are not on suspension are eligible to register.

Beginning on March 29, students may pick up their registration materials from the Registrar's Office. New students, students who are on suspension, and students who have already registered for the academic year (even if they are not on campus, e.g., students who withdraw) will be mailed their registration materials upon request.

Most courses in the Summer Session are assigned on a first come-first served basis.

Winter Session

1993-94 Winter Session registration begins on March 15. Students who registered at the College in the 1992-93 Winter Session and who are not on suspension are eligible to register. Students may pick up their registration materials from the Registrar's Office. Registration material will be mailed on request to new students who enrol (i.e. re-enrol where otherwise required), or to other students who are not on campus.

Course scheduling

Before classes start in September, all requests for course enrolment received prior to the appropriate deadline are considered at the same time:
- early June
- mid-August
- early September

Priorities for course scheduling

With the exception of courses with restricted admission, priority is given as follows:

Year of Study | Passed credits | Priority given in:
---|---|---
4th | >14.0 | all courses
3rd | 9.0 to 14.0 | C & D level
2nd | 4.0 to 8.5 | B level
1st | <4.0 | A level

After classes have started in September, places in courses which do not have restricted admission are assigned on a first come-first served basis.

Timetables

Following the June and August course scheduling, personal timetables will be mailed to all students who have requested enrolment in courses. Following the September scheduling, timetables will be available on a Meeting Place on the first two days of classes and thereafter from the Registrar's Office. Personal timetables are not produced to reflect changes made after classes start in September.

University of Toronto
Student Telephone Service (872-8638)

Scarborough College students with access to a touchtone telephone may use the Student Telephone Service to:
- add courses
- drop courses
- change sections
- list courses on their record
- request graduation
- receive St. George campus bulletin results
- avoid lines

Telephone course identifiers are the numbers which appear next to the course code in the course descriptions in this catalog and in the timetable.

By using the Student Telephone Service, students are modifying their own computer records.

Access is through student number and a four digit personal identification number (PIN). PIN usually consists of month and day of birth (e.g., 0723 to March 23). For this reason it is important not to give both student number and date of birth to anyone else. Students who are concerned about security may change their PIN through the Registrar's Office to one of their own choice. PINs will not be changed without photo identification. For security there is a limit on the number of attempts which can be made to enter PIN. Students who exceed the limit will have their access to the Student Telephone Service suspended and should contact the Registrar's Office immediately. Access will not be restored without photo identification.

Using the Student Telephone Service

Students are guided through each step of the telephone call and are asked at certain steps to confirm their intent. The call must progress through all steps before any changes are made to the student record. When it has, the system will confirm that the transaction is complete and will offer other options or will end the call. When dealing with courses, it is a good idea always to end the call by using the last option as an additional confirmation that call has progressed as it should and that the record is correct.

Service to the hearing-impaired

Access to the Student Telephone Service is available by the Bell Relay or by contacting the Special Services Office via TDD at (416) 978-8060.

Student Telephone Service fee

Incidental fees each session include a Student Telephone Service fee. Students who do not use the service may request a refund by sending a request to the Registrar's Office by the appropriate deadline. (See fee information published each session for deadline dates.)

Registration of courses by the Student Telephone Service is included in the registration material.
Degree requirements

Students who first registered at the College before the 1989 Summer Session may, if they wish, complete the degree requirements outlined in the 1989/90 Scarborough College Calendar. Students who first registered at the College before the 1989 Summer Session may, if they wish, complete the degree requirements outlined in the 1990/91 Scarborough College Calendar. Students transferring to the University of Toronto will be required to complete at least half of their credits and half of their program requirements as Scarborough College students. Students transferring from other divisions of the University of Toronto are exempt from this requirement.

Notes:

1. A course. The word course is used in two ways: a) to describe a full or half course such as "the last day to withdraw from a course," or b) to describe a number of full courses, or the equivalent in full and half courses such as the requirement of passing fifteen courses for a three-year degree program.

2. To pass a course. To pass a course means to obtain a grade of D- or better in that course (or "Credit" in a Credit/No Credit course).

3. Credit requirement. This rule does not apply in the case of non-specific program requirements (e.g., a "B or better course in English") or in the case where one or more courses of a more completely different course(s) may serve as prerequisites.

Programme requirements

Specialist Programmes

1. Specialist Programmes are designed to provide depth and intensity of study within a limited area defined as a discipline, a group of disciplines, or a particular theme area of study. A Specialist Programme may be taken only as part of a four-year degree and will consist of at least nine courses. There are four Specialist (Co-operative) Programmes (see page 50).

(A list of Specialist Programmes may be found on page 15.)

Major Programmes

2. Major Programmes are designed to provide concentration in an area of study defined as a discipline, a group of disciplines, or a particular theme area of study. A Major Programme may be taken as part of either a three-year or a four-year degree and will consist of six to eight courses. (A list of Major Programmes may be found on page 16.)

College Programmes

3. College Programmes are designed to provide an organizing framework for students desiring wide-ranging but coherent programmes of study in a major area of the curriculum. A College Programme may be taken as part of either a three- or a four-year degree. (A list of College Programmes may be found on page 16.)

Minor Programmes

4. Minor Programmes are designed to provide study in a specific area for students desiring wide-ranging but coherent programmes of study in different areas of the curriculum. A Minor Programme may be taken as part of either a three-year or four-year degree and will consist of four full courses, including at least one C or D level course.

Approved Individual Programmes

5. Students may propose individual programmes of study, other than those described in this Calendar. Such proposals will be considered favourably only upon the basis of cumulative grade point averages of 3.5 or better. To be approved, an Individual Programme should specify four courses for a Minor Programme, six to eight courses for a Major Programme or College Programme, and ten to fourteen courses for a Specialist Programme. The courses should all be offered on the Scarborough Campus and should form a logical sequence. The student should offer a rationale for the proposal. Proposals should be made to the Vice-Principal and Associate Dean. Proposals must be submitted at least eight months prior to the session in which the student expects to graduate.

Course selection and registration for Programme of Study

1. Students are responsible for ensuring that their course selection will enable them to complete the requirements of their Programmes by the time they complete their other degree requirements. In certain Programmes, approval by the supervisor of some or all courses is necessary. In all Programmes, the supervisor is available for advice concerning Programme requirements and course selection.

2. While students in their first year of full-time study, or first four courses of part-time study, are not required to select a Programme, they should, when selecting their first year courses, consider carefully the requirements of any Programmes they may later choose to follow. Supervisors, instructors and counsellors in Counselling Services may be consulted for assistance. Students who have registered in a Programme should consult annually with the supervisors of their Programmes to ensure that their course selection will meet Programme requirements.

3. Students must register in their Programmes at the time they submit their course registration for the Winter Session following the session in which they attain their fourth credit.

Programme transfers

Students who wish to transfer from one Program to another after classes have started should discuss the proposed transfer with the supervisor in the new Programme and submit a registration change form to the Registrar's Office. (Enrolment in the new Programme is limited, the form must be signed by the Programme supervisor.)

Certification of completion of Programmes

Students request certification of completion of their Programmes at any time during the session of study at the College, at the same time as they request graduation. When Programme requirements are changed, students wishing to satisfy the requirements in effect when the student first registered will have to complete the new requirements. When not all requirements of the student's Programme are met, the college reserves the right to impose redefinition for courses which are no longer offered.

Regulations concerning Programme of Study

1. Students may not register in two limited enrolment Specialist Programmes.

2. Students in a Major Program are permitted to register between a Minor Programme and any other Programme.
Standing in a course

Grading scheme
Students are assigned a grade in each course, as follows:

<table>
<thead>
<tr>
<th>Grade Point</th>
<th>Percentage</th>
<th>Equivalent</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td>90-100</td>
<td>Excellent</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>85-89</td>
<td>Good</td>
</tr>
<tr>
<td>B+</td>
<td>3.7</td>
<td>80-84</td>
<td>Adequate</td>
</tr>
<tr>
<td>B</td>
<td>3.3</td>
<td>77-79</td>
<td>Marginal</td>
</tr>
<tr>
<td>B-</td>
<td>3.0</td>
<td>73-76</td>
<td>Inadequate</td>
</tr>
<tr>
<td>C+</td>
<td>2.7</td>
<td>70-72</td>
<td>Credit in a</td>
</tr>
<tr>
<td>C</td>
<td>2.3</td>
<td>67-69</td>
<td>No credit</td>
</tr>
<tr>
<td>C-</td>
<td>2.0</td>
<td>66-66</td>
<td>Credit-No</td>
</tr>
<tr>
<td>D+</td>
<td>1.7</td>
<td>60-62</td>
<td>credit course</td>
</tr>
<tr>
<td>D</td>
<td>1.3</td>
<td>57-59</td>
<td>No Value</td>
</tr>
<tr>
<td>D-</td>
<td>1.0</td>
<td>53-56</td>
<td>No Value</td>
</tr>
<tr>
<td>CR</td>
<td>0.7</td>
<td>50-52</td>
<td>No Value</td>
</tr>
</tbody>
</table>

Grades of "E," "F," and "NCR" are failing grades, yielding no standing in a course and no degree credit. Students are cautioned that a numerical score on an assignment is not deemed to be automatically equivalent to the corresponding letter grade.

Credit/No credit courses
In some courses such as music performance courses, or certain drama courses, specific letter grades may not be assigned. Students may instead be graded on a Credit/No credit (CR/NC) system.

The grade of "No credit" is a failing grade. Where students earn a grade of "Credit" in a course, the course is not included in the grade point average; where students earn a grade of "No Credit", the course is included as an "F" (value zero) in the grade point average.

Aegrotat standing
The Sub-committee on Standing may, on presentation of a grade of "Aegrotat" (ABG), this grade is assigned on the basis of term work where medical or similar evidence demonstrates that a student is unable to complete course requirements within a reasonable time, and where a student has already completed at least 60% of the work of the course with a term mark of C minus or better. Where a student is assigned Aegrotat standing, the course is not included in any grade point average.

Extra courses
Extra courses are those courses in which students may not register for credit (see "Course Selection" on page 221). The course and its grade will appear on the students transcript (designated as an extra course) but the grade will not be included in any grade point average.

Overall standing
Grade point average
At the end of each summer session (May to August) and each winter session (September to May) both a sessional and a cumulative grade point average (GPA) will be calculated for each student, and shown on the student's transcript.

1. A grade point average is calculated as follows: the grade points earned in each full course and one-half the grade points earned in each half course are added together and this total is divided by the number of full courses (or equivalents) taken.
2. A sessional grade point average is calculated on the basis of all courses taken in each session (winter or summer) having a grade point.
3. A cumulative grade point average is calculated on the basis of all courses taken having a grade point value.

Determination of academic status for students admitted on condition

In certain circumstances, students who do not meet normal admission requirements may be admitted "on condition." The academic status of each student is determined according to the following rules:

1. The status of students admitted on condition will be reassessed at the end of the session in which such students complete their second full term equivalent.
2. Where such students earn a cumulative grade point average of 1.7 or better, their condition status will be removed, and they will be said to be in "good standing."
3 Where such students earn a cumulative grade point average of less than 1.70, they will be suspended for one year.

4 Upon their return from suspension, their academic status will be assessed as it is assessed for any other student returning from suspension.

Determination of academic status for re-enrolling students at Scarborough College Students who have studied at other institutions or other divisions of the University of Toronto since their last registration at Scarborough College must arrange for official transcripts of other post-secondary studies to be sent to Scarborough College upon application for re-enrollment. Achievement in courses taken into consideration in determining if the application will be approved and in assessing whether any change in academic status will be imposed. In particular, students who are not in good standing who study at other institutions with poor achievement are unlikely to be eligible to re-enter. Students who study at other universities without prior permission from Scarborough College are unlikely to be eligible for transfer credit for such study. See also the section "Study at other universities"

Study at other institutions or other divisions of the University of Toronto Courses taken for credit by degree students while registered at the University of Toronto's Faculty of Arts and Science or at Woodsworth College are included in Scarborough College grade point averages as are all University of Toronto courses taken for credit while registered at Scarborough College. Courses taken while registered at other institutions or other divisions of the University of Toronto are not included in grade point averages.

Courses on other campuses Students are permitted to take some courses on other campuses of the University of Toronto subject to the following rules. Students may be withdrawn from courses after classes have started if their registration violates these rules.

Overall limits Of the total number of courses completed by Scarborough College students, at least one half must at all times be Scarborough College courses. (The total number of courses refers to the sum of the courses in which students are registered plus those which they have already passed.)

Other than Arts and Science credits Students are not permitted to register for courses in Faculties other than Arts and Science unless they have received the permission of the Sub-Committee on Standing or unless the courses are required by their Specialist, Major or College Program.

Transfer to the Faculty of Arts and Science Students who are contemplating transfers to other Colleges in the University should be aware that Scarborough College is in fact a separate faculty and that the rules covering students at Scarborough College differ from those in the Faculty of Arts and Science. Students are urged to consult the Office of Admissions and Awards at 515 Bloor Street West to establish how they will be affected by transferring from one faculty of Arts and Science to another.

Study at other universities Students who wish to take courses at another university and have credits transferred to the University of Toronto must receive permission from the University of Toronto to do so prior to taking the courses. Students who study at other institutions without the University of Toronto's approval in advance do so at their own risk in that the credits usually are not transferred after the fact. However, students should also be aware that duplication of previous study is not permitted. Students who study at Faculties other than Scarborough College and leaving Scarborough College are required to submit a request for permission to enrol at other universities. Grades attained at other universities may affect a student's academic status.

There are two types of programmes where credit transfer is considered. The Study Elsewhere programme allows a student to study full-time at an accredited university in a different cultural setting to enhance the student's educational experience. A Letter of Permission allows a student to participate as a non-degree student in setting the University of Toronto. The regulations governing the programmes are different.

(1) Letters of Permission
To take a course at another university, students must, in advance, apply for and receive a "Letter of Permission" from Scarborough College. Requests should be addressed to the Assistant Registrar - Admissions, Room 5415. Requests should include the name of the university, the course number, title and description. Courses requested must be appropriate for Arts and Science degree credit at this University. In particular the student must give reasons why the Letter of Permission is necessary.

To be considered, a student must have completed the equivalent of one year of full-time study and be in good standing. A maximum of 5.0 credits may be based on a Letter of Permission. If a student has received more than 5.0 transfer credits upon admission, it is unlikely that a Letter of Permission will be allowed. Letters of Permission are not normally granted for study at institutions within Metropolitan Toronto and surrounding regions. Only 1.0 credit at the C or D level will be permitted to be taken on a Letter of Permission. A student who completes the final course(s) for the degree during the Winter Session may not apply to graduate in the January convocation but may apply for graduation at the November convocation. A fee will be charged for each Letter of Permission.

Special Note: French Summer Immersion Programmes. The Department of Secretary of State in co-operation with the Ministry of College and Universities (in Ontario) sponsors the Summer Language Bursary Programme. Students interested in this six week immersion programme (in Quebec or elsewhere in Canada) should complete the bursary forms promptly in the summer. Please contact the Ministry. (Check with Counselling Services in January for the date of arrival.) Speak to the Assistant Registrar - Admissions and the Study Elsewhere Supervisor in French for advice about choosing three university offering summer courses which most closely correspond to the curriculum at the University of Toronto. Submit the form to the Registrar's Office to verify registration and mail promptly to enhance your chances of obtaining your first choice of university. Once you know the university to which you have been accepted and at least three weeks before departure, apply for a Letter of Permission. You will be advised of the level in which you must register in order to be eligible for the credit to be transferred.

(2) Study Elsewhere Year
To apply for a full year programme, students may obtain an application from the Assistant Registrar - Admissions on the Vice-Principal and Associate Dean. The application requires details about the proposed course of study and asks students to show how the intended studies will apply to their studies at Scarborough College. Students who intend to count the courses towards programme requirements must obtain the approval of the Programme Supervisor before submitting the application. Students normally apply for a Study Elsewhere year during the third year of a four year programme. However students may apply after completing four full-course equivalents at Scarborough College. To be eligible a student must have a cumulative grade point average of 2.5 or better. Students must return to Scarborough College to complete the final year of study. A maximum of 5.0 full-course equivalents will be considered for transfer. Completed applications should be submitted to the Vice-Principal and Associate Dean by April 1. The proposed programme will be reviewed by the Study Elsewhere Committee.

Since there is often limited information about foreign universities, students should begin the process early in October. Most often students register at the host university and follow its courses for credit. It is possible that students may arrange to take University of Toronto independent study or supervised reading courses under supervision from University of Toronto faculty. The University of Toronto offers Study Elsewhere opportunities at Aix-en-Provence, Grenada, Ljubljana and many other programs. Students may propose any accredited university that offers a full year programme in a relevant discipline.

(3) Grades and Accountability
Students registering in courses offered by the University of Toronto receive grades in the normal manner. To receive credit for other courses, the student must earn one full grade higher than the minimum passing grade (i.e. a C minus or better) on a grading scale similar to that of the University of Toronto. Grades are not recorded and are not included in any grade point average. The student's academic record for the host university to send an official transcript to Scarborough College promptly after completion of the course. Students who do not register or withdraw without academic penalty must arrange for a
Academic transcripts

The academic transcript is the official statement of the academic record of each student.

Contents

1. The transcript records the following information:
   - Information to identify the student: full name and university student number.
   - The student's academic record, listed chronologically by session:
     † each course attempted, its abbreviated title, and its grade;
     † the sessional grade point average;
     † cumulative grade point average at the end of the session;
     † the student's academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for three years, refused further registration, or suspension deferred;
   - Completion of degree and Programme requirements, and date of conferment of the degree;
   - Any academic honours awarded:
     † scholarships, prizes, or medals awarded by the College or by the University, including on the Program of Academic Divisions of the University.

Ordering copies

Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a fee. Copies of transcripts may be requested in person or by letter only. A student's signature is required to authorize release of the transcript (in order to protect confidentiality of records); telephone requests cannot be accepted.

To order copies of transcripts, students should visit the Office of the Registrar, or should write to: Office of the Registrar, Scarborough College, University of Toronto, 1265 Military Trail, Scarborough, Ontario, M1C 1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto.

Ordering copies

There is no charge for copies of transcripts sent to other divisions of the University of Toronto.

Copies of transcripts sent directly to educational institutions and other institutional recipients bear a replica signature of the Registrar and the official College seal. Copies sent directly to institutions do not bear the College seal and are marked "Student Copy". To prevent counterfeiting, most institutional recipients state that the transcript copy be sent directly to them.

Policy on access to student records

1. preamble
   (a) Academic records of students are ultimately the property of the University, and it is the responsibility of the University to establish overall University policy in this area. This policy establishes university-wide aims, objectives, criteria and procedures which shall apply to the academic records of students of academic divisions of the University.
   (b) The purpose of this policy is to combine consistency with flexibility in such a way as to ensure that:
      (i) Students, alumni and former students are allowed to access to their own academic records as is academically justifiable and administratively feasible.
      (ii) A student's right to privacy in relation to his or her academic record is safeguarded as far as both internal university access and external public access are concerned.
      (iii) There will be a basic university-wide consistency in the kinds of information collected, recorded, filed and made available.
      (iv) In keeping with the philosophical nature of the University academic divisions may retain some flexibility in the implementation and application of policies established within this document.

2. Definition of the student academic record

The official student academic record refers to information relating to a student's academic performance at the University.

The "official student academic record" shall contain:
   (i) Personal information which is required in the...
(ii) A student's request to examine a part of his or her official student academic record shall be made in writing and shall be completed with the approval of the University within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as a division may determine.

(iii) A student has the right to challenge the accuracy of his or her official student academic record with the exception of the material specifically excluded in Section 4(i)(ii) and to have his or her official student academic record supplemented with comments so long as the sources of such comments are identified and the official student academic record remains secure within the custody of the academic division.

Reference to such comments does not appear on reports such as transcripts or statements of results. (iv) It is assumed that all documents relating to petitions and appeals (Section 30(3)(iii)) and not provided on the understanding that they shall be maintained in confidence shall be retained within a division, and when needed by a student, will be made freely available. In addition, the Statutory Powers Procedure Act, 1971 of Ontario requires that where the good character, propriety of conduct or competence of a party is in issue in any proceeding in which the Act applies (such as the Academic Appeals Board of the Governing Council), the party is entitled in the forum prior to the hearing with "reasonable informal access" of any negotiations with respect thereto.

4. Access to official student academic records

(a) Access by a student

(i) A student may examine and have copies made of his or her official student academic record defined in Section 3 above, with the exception of those portions of the record which comprise letters of reference (Section 3(b)(v)) which have been provided or obtained on the expressed or implied understanding that they shall be maintained in confidence. A student may, however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record.

(ii) A student's request to examine a part of his or her official student academic record shall be made in writing and shall be compiled with the approval of the University within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as a division may determine.

(iii) A student has the right to challenge the accuracy of his or her official student academic record with the exception of the material specifically excluded in Section 4(i)(ii) and to have his or her official student academic record supplemented with comments so long as the sources of such comments are identified and the official student academic record remains secure within the custody of the academic division.

Reference to such comments does not appear on reports such as transcripts or statements of results. (iv) It is assumed that all documents relating to petitions and appeals (Section 30(3)(iii)) and not provided on the understanding that they shall be maintained in confidence shall be retained within a division, and when needed by a student, will be made freely available. In addition, the Statutory Powers Procedure Act, 1971 of Ontario requires that where the good character, propriety of conduct or competence of a party is in issue in any proceeding in which the Act applies (such as the Academic Appeals Board of the Governing Council), the party is entitled in the forum prior to the hearing with "reasonable informal access" of any negotiations with respect thereto.

(b) Access by alumni and former students

(i) An alumnus or alumnna of a former student may examine and have copies made of the portion of his or her official student academic record as defined in Section 3(a) that he or she still has interest in maintaining in confidence. A student may, however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record.

(ii) A student's request to examine a part of his or her official student academic record shall be made in writing and shall be compiled with the approval of the responsible authorities.
records schedule which is in compliance with this policy.
(b) Three portions of the official student academic record as defined in Section 5(a)(i) shall be maintained permanently. Each academic division's records schedule shall specify the document, form or medium in which these records will be maintained.
(c) Official student academic records preserved in the University Archives because of their archival value shall become open to researchers authorized by the University seventy-five years after a student has ceased to be registered.
6. The University's responsibilities with reference to the official academic records of students, alumni and former students
(a) Students shall be informed of the University policy and divisional procedures with respect to their official student academic records.
(b) Academic divisions, administrative divisions which handle student academic records and campus organizations shall develop administrative procedures in support of this policy.
(c) Academic records shall be kept at all times under appropriate security.

Regulations governing special students

"Special students" are students registered at Scarborough College for degree courses: 
(a) who are not proceeding towards a University of Toronto degree,
(b) who have been admitted on an interim basis and who must meet certain conditions before admission as regular degree students. Except for regulations concerning degree requirements, and regulations where special students are specifically exempted, all regulations applicable to special students and degree students. Where students have been admitted on an interim basis as special students, the conditions of their admission supersede the normal regulations governing academic status.

5. Custody and retention of official students academic records
(a) Academic records of students are normally under the custodial responsibility of the academic division. Every academic division maintaining official student academic records shall draw up plans for the eventual disposition of their records in consultation with the University Archivist and in accordance with an approved program grading practices policy

The following is the text of the University grading practices policy. Text enclosed in square brackets [ ] has been added to clarify or interpret the policy as it applies to Scarborough College.

Purposes
The purpose of the University Grading Practices Policy is to ensure:
(a) that grading practices throughout the University reflect appropriate academic standards;
(b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;
(c) that grade scales, while remaining suited to the particular circumstances of every division, are compatible with each other;
(d) that the academic standing of every student can be accurately assessed even when courses have been taken in different divisions of the University and evaluated according to different grade scales.

Application of policy
The Policy applies to all individuals and committees taking part in the evaluation of student performance in degree, diploma, and certificate credit courses (hereafter referred to as courses), excluding courses in the School of Graduate Studies.

Amendment to policy
Amendments to the Policy shall be recommended to the Academic Board.

Changes to the divisional regulations on grading practices shall be forwarded to the Committee on Academic Policy and Programs.

Distribution of policy
A copy of the Grading Practices Policy as well as the description of the grade scale used in a division and the reference of divisional regulations indicated in Part II of this Policy shall be published in the Calendar of the division. Similarly a copy shall be given to all students upon initial registration and to all instructors and others, including teaching assistants, involved in the evaluation of student performance.

The Policy is in three parts: Part I deals with grades, Part II outlines grading procedures to be adhered to in divisional regulations adopted as part of this Policy, and Part III is an administrative appendix available upon request from the Office of the Provost.

PART I: Grades

Meaning of grades
Grades are a measure of the performance of a student in individual courses. Each student shall be judged on the basis of how well he or she has performed in the course materials.

1.1 A grade assigned in a course is not an assessment of standing within a program of studies. To determine the requirements for credit and standing in a program of studies, the academic regulations of the division in which the program is offered should be consulted.

1.2 Grades for each course shall be assigned with reference to the following meanings (which may be expanded in the divisional regulations under Part II):
- Excellent
- Good
- Adequate
- Marginal
- Inadequate
- Wholly inadequate

Grade scales

1.3 Once a judgment on the performance of the student has been made, the following grade scales may be used in accordance with divisional practices:
(a) the appropriate letter grade scale;
(b) the numerical scale of marks; and/or
(c) the scales Honours/Pass/Fail and Credit/No Credit.

[For the scale used at Scarborough College, see page 00.]

Grades vs. scores

1.4 Grades should always be based on the approved grade scales. However, students may find that on any one evaluation they may receive a numerical or letter mark that reflects the score achieved on the test or essay. The cumulative average may not be directly identified with the final grade. Grades are final only after
review by the divisional review committee described below.

1.5 A table of correspondence and a translation table are defined in the Appendix for each of the letter grade scales referred to in 1.5(a) in order to allow the conversion, when necessary, of a grade assigned from one scale to the corresponding grade in another. It should be noted that these tables are not to be used to translate a score to a grade directly.

Grade reporting

1.6 Only one letter scale, as referred to in 1.5(a), may be used in a division for assigning grades; the numerical scale and the HPPEL and CR/NCIR scales, as referred to in 1.5(b), and (c) respectively, may also be used. The grades assigned in a course, however, must all be from the same scale.

1.7 Grades in each course shall be assigned according to the practice of the divisions offering the course.

Grades in each course shall be reported according to the practice of the division administering the program in which the student is registered (the reporting division).

(a) Grades shall be reported as assigned when the division offering the course is also the reporting division, when the offering and reporting divisions use the same grade scale, and when the grades are assigned from HPPEL, or CR/NCIR scales.

(b) In all other cases, grades shall be reported as converted to the scale used by the reporting division, and the conversion shall be made according to the tables of correspondence and translation tables defined in the Appendix.

(c) With the exception of HPPEL, and CR/NCIR scales, different letter grade scales may not be used on the same transcript.

(d) A grade not reported in the form originally assigned by the offering division may not be used to report the student in that form by the reporting division.

1.8 All non-grade symbols used in reporting course results must correspond to the University-wide standard. A list of the currently approved symbols and their meanings is given in the Appendix A.2.1.

1.9 The information in grade reports and transcripts must be communicated to the user, whether within or outside the University, in a clear and meaningful way. To that end, transcripts issued by every division of the University must indicate the relationship between the division's specific grade scale, the grade meanings, the basic letter grade scale, whether retained or unretained by plus and minus signs, and the scale of numerical marks as well as the translation table. A list of non-grade symbols and meanings shall also be included in the transcript.

PART II: Grading Procedures

Approval of grades

Grades shall be recommended by the instructor to the chair or division head. The grades shall then be reviewed and approved following the divisional review procedure. Grades shall not be reported or released to students as official until the divisional review procedure has been carried out. The divisional review constitutes final approval of grades except when grades are changed on appeal.

5.1 Divisional Review Committee

In each division, a committee shall be appointed by the divisional head or designee, and whose members, or their designates, represent one or more academic units of divisions serving as chairs, shall:

(a) administer the implementation of the University Grading Practices Policy at the divisional level and oversee the consistency of grading procedures with the division;

(b) for each course, approve and administer the division's specific regulations concerning the scale grade or scales to be used, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation.

(c) review, adjust and approve course grades recommended by instructors. The grades recommended for any individual student in the professional facilities may be adjusted according to his or her performance in the course or program as determined by the committee. The divisional committee has the final responsibility for the assignment of the official course grade.

5.2 Classroom procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the practices below.

(a) As early as possible in each course (and no later than the division's last date for course enrollment) the instructor shall make available to the class, and shall file with the division or department, the methods by which student performance shall be evaluated. This should include whether the methods of evaluation shall be essays, tests, examinations, etc., the relative weight of these methods in relation to the overall score, and the timing of each major evaluation.

(b) After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least a simple majority of the students enrolled in the course. Any changes shall be reported to the division or the department.

(c) Student performance in a course shall be assessed on more than one occasion. No one essay, test, examination, etc. should have a value of more than 50% of the grade. Criteria for exemptions may be determined by the division.

5.3 Other requirements

(1) Students in a course that meets regularly as a class there shall be no oral examination (or examinations) conducted formally under divisional agreements and worth at least one-third of the final grade. Criteria for exemption may be established by the division.

(2) In A-level courses, at least one third of the final grade will be based upon a formal examination(s) in the final examination period in December and/or in the final examination period in April and May for comparable examination periods in the Summer Session.

In B-level, C-level and D-level courses, at least one third of the final grade will normally be based upon a formal examination(s). Alternatively, a supervised term test(s), valued at least one third of the final grade, may be substituted for the formal examination, upon the annual request of the instructor and approval of the appropriate Divisional Chair.

The following courses may be exempted from the requirement for examinations, upon annual request of the instructor and approval of the appropriate Divisional Chair: advanced seminar courses; supervised research courses; field courses; and performance courses. These courses, and performance or art studio courses for which are exempted from the one-third examination requirement are reported annually to the Sub- committee on Curriculum & Standards of the Governing Council.

Oral Examinations. At the discretion of the instructor an oral examination may be required in conjunction with any paper presented. At the examination, the student must defend the paper, and be present before the final grade is assigned in the paper. The grade assigned for the paper may be substantially affected by the results of the oral examination.)
The relative value of each part of an examination shall be indicated to the student. In the case of a written examination, the value shall be indicated on the examination paper.

(e) Commentary on assessed term work and time for discussion of it shall be made available to students.

(f) At least one piece of term work which is a part of the evaluation of a student’s performance, whether essay, lab report, review, etc., shall be returned to the student prior to the last date for withdrawal from the course without academic penalty.

The following two categories of courses shall be exempted from this requirement: field courses such as Anthropology and Geology; independent research and senior essay courses, which are by definition "one on one" courses with continual monitoring throughout the year, and large single end of year assignments which constitute the basis of the final mark.

(g) Grades shall be recommended by the instructor as reference to the approved grade scales on the basis of each student’s overall performance.

In formulating their own regulations divisions may add to items (a) to (g) and may adopt lower or more specific provisions, for example in place of "a simple majority" (b), "one-third of the final grade" (d), or in altering the evaluation methods referred to in (a) and (b).

8.3 Procedures in the event of disruptions

Principles

The following principles shall apply in the event of disruption of the academic program:

1. The academic integrity of academic programs must be maintained.

2. Students must be treated in a fair manner recognizing their freedom of choice to attend class or not without penalty.

Procedures

(a) The Vice-President and Provost, or the Academic Board, shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes to be implemented, and will report to the Committee on Academic Policy and Programs regarding the implementation of the procedures and changes to the status of the academic programs.

(b) Individual instructors or multi-section co-ordinators responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.

(c) Changes to the classroom procedures should, where possible, first be discussed with students prior to the class in which a vote of the students present on the proposed changes is to be taken. Changes agreed upon by consensus should be forwarded to the department or division with a report on the attendance at the class where the vote was taken.

(d) Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after the class discussion, will provide the division or chair of the department in multi-departmental faculties, with his or her recommendation, along with the results of any classroom vote. The chair or division head shall then make a decision.

(e) Where classes are not able to convene, the instructor, with the prior approval of the chair in multi-departmental faculties or the division head, shall make changes deemed necessary to the classroom procedures. In the absence of the instructor such changes will be made by the division head and require the approval of the Provost. Where courses are to be cancelled, approval of the divisional council is required.

If the divisional council cannot meet, approval of the division head, or in the absence of the division head, the approval of the Provost, is required.

(f) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing in the campus press. Should classes resume students must be informed, at class, of any changes made during the disruption.

(g) Where changes to the classroom procedures are made, students who do not wish to complete the course under the revised procedures may withdraw without academic penalty. This must be done prior to the last day of classes.

(h) Where students have not attended classes that are meeting, they nonetheless remain responsible for the course work and meeting course requirements. However, where possible, reasonable extension of deadlines for the course requirements, or provision of make-up tests shall be made and reasonable alternative access to material covered should be provided.

(i) A student who feels, owing to his or her special circumstances, that changes to the classroom procedures have unreasonably affected his or her grade may appeal the decision following the procedures as set out in each division.

8.4 Assessment in clinical and field settings

Divisions may make reasonable exceptions to the clinical and field procedures described above in circumstances such as field or clinical courses where adherence to these procedures is not applicable. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings be fair humane, valid, reliable and in accordance with the principles enunciated in the University Grading Practices Policy. Accordingly, where student’s performance in a clinical or field setting is to be assessed for credit, the evaluation must encompass as a minimum:

(a) A formal statement describing the evaluation process, including the criteria to be used assessing the performance of students and the appeal mechanisms available.

(b) A mid-term performance evaluation with feedback to the student;

(c) Written documentation of the final assessment. In addition, for such clinical and field experiences, divisions must ensure that:

(d) Clinical and field assessors are fully informed regarding University, divisional and course policies concerning evaluation procedures, including the specific assessment procedures to be applied in any particular field or clinical setting.

Any exception from the above would require a divisional request with explanation for approval by the Governing Council.

8.5 Grade review and approval process

[The Divisional Review Committee of Scarborough College is the Sub-Committee on Grades.]

The following principles and procedures shall govern the grade review and approval process:

(a) The distribution of grades in any course shall not be predetermined by an system of quotas that specifies the number or percentage of grades allowable at any grade level.

(b) However, a division may provide broad limits to instructors in order to ensure a reasonable distribution of grades in the division or department. Such broad limits shall recognize that considerable variance in class grades is to be expected.
grades is not unusual. The division may report an explanation of any grades for a course that exceed the limits and hence appear not to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is thirty students or greater. Each division shall make known in the divisional Calendar the existence of any such limits.

(c) The criterion that the Divisional Review Committee shall employ in its evaluation is whether the instructor has followed the University Grading Practices Policy. The Review Committee shall not normally adjust grades unless the consequences of allowing the grades to stand would be injurious to the standards of the University, or the class in general.

(d) Membership on the Divisional Review Committee may include students but should not include members of the divisional appeals committee(s).

(e) Where grades have been adjusted by a divisional committee, the students as well as the instructor shall be informed. On request, the students or the instructor shall be given a copy of the adjustment of grades, a description of the methodology used to adjust the grades, and a description of the divisional appeals process.

(f) Where the divisional review committee changes course grades, the faculty office shall be so informed. Having done so, the faculty office shall relay this information, upon request, to the students or the instructor with a description of the reason for the change and the methodology used.

(g) Past statistical data, including drop-out rates, mean arithmetic average, etc., should be provided to the Divisional Review Committee as background information where available. The committee will not use this information exclusively to judge whether a specific grades distribution is anomalous. Rather, the information should provide part of the basis for an overall review of grades in a division.

(h) Where class grades have been challenged when the Divisional Review Committee had reservations about the grades, the issue will be taken up with the instructor by the division or department head, with a view to ensuring that the Grading Practices Policy is followed in future.

Appeals procedure
Every division shall establish divisional appeals procedures. Students may appeal grades according to the procedures established for that purpose in the division. The appeal may be made whether marks have been altered by the review process or not. These procedures shall be outlined in the divisional Calendar, and available upon request at the faculty or registrar's office.

[For procedures for appeals concerning grades and grading practices, see "Procedures for requesting special consideration, petitions, and appeals" (page 00).]

8.6 Student access to examination papers
(a) All divisions should provide access to copies of the previous years' final examination papers and other papers where feasible. Exemptions may be granted by an appropriate committee of the division or department.

(b) All divisons should provide students with the opportunity within a reasonable time to review their examination paper where feasible. A recovery fee should be set to cover administrative costs including photocopying.

(c) All divisions should provide, in addition to the customary re-reading of papers and the re-checking of marks, the opportunity for students to petition for the re-reading of their examination where feasible. A cost recovery fee should be set and returned where appropriate.

[For further details, please refer to "Procedures for requesting special consideration, petitions, and appeals" (page 00).]

8.7 Conflict of interest
Where the instructor or a student has a conflict of interest, or is in a situation where a fair and objective assessment may not be possible, this should be disclosed to the chair or division head who shall take steps to ensure fairness and objectivity.

Examinations
Examinations are held at the end of both terms in each session. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of personal commitments. Information regarding dates and times of examinations will not be given by telephone.

Students are responsible for reading the timetables carefully and appearing at the time specified. Students taking courses during the day may be required to write evening examinations, and students taking evening courses may be required to write day examinations.

Examination timetable conflicts
Students scheduled to write two examinations at the same time should report their conflicts to the Assistant Registrar (Secretariat and Scheduling) (Room S420A, 287-7540). Arrangements will normally be made for students to write both examinations on the same day, with a supervised break. Where the conflict involves a St. George Campus course, arrangements will normally be made for both examinations to be written at Scarborough College. Requests for such arrangements must be made no later than two full weeks before the commencement of examinations and will not be considered after that time.

Students with three consecutive examinations
Students scheduled to write examinations in three consecutive time slots (these are morning, afternoon, and evening) may request special arrangements. Requests for such arrangements must be made with the Assistant Registrar (Secretariat and Scheduling) no later than two full weeks before the commencement of examinations. Requests will not be considered after that time.

Special consideration regarding examinations
Students requesting special consideration because they are unable to write a final examination must submit a petition through the Office of the Registrar no later than the last day of the examination period. Petitions must be accompanied by a medical certificate or other appropriate supporting evidence. Please refer to the information concerning petitions and medical certificates (page 00).

Identification cards
Students will be required to identify themselves at examinations by means of their University of Toronto photo identification card. Students who do not have this card should arrange to obtain one well in advance of the day of their first examination.

Examination room regulations
1. All students are advised to read the section of this Calendar titled Code of Behaviour on Academic Matters.
2. Students are advised to arrive at the examination room at least fifteen minutes before the scheduled examination time. Invigilators will begin the actual examination at the scheduled time.
3. No persons shall be allowed in an examination room during an examination except the students writing the examination and those supervising it.
4. Credit cards shall bring their photo identification cards and place them in a conspicuous place on their desks. (Students registered in other Faculties or the University shall bring their student cards.)
5. Bags and books are to be deposited in areas designated by the invigilator and are not to be taken to the examination desk or table. Students may dispose of their purses by placing them, closed, on the floor underneath their chairs.
6. The invigilator has the authority to remove any students from the examination room or to exclude any student from an examination except those authorized by the Chief Presiding Officer or Examiners.
8 Candidates shall not communicate with one another in any manner whatever while the examinations are proceeding.

9 Candidates bringing any unauthorized material into an examination room or who assist, or obtain assistance from another candidate or from an unauthorized source, are liable to be refused permission to write the remaining part of the examination or any subsequent examinations. Such candidates are also liable to the loss of academic credit for the course, to suspension, or to expulsion from the University.

10 Candidates shall not be permitted to leave the examination room except under supervision until at least half an hour after the examination has commenced.

11 Candidates shall not leave the examination room within the final ten minutes of an examination, during which time they shall remain quietly seated at their desks.

12 At the conclusion of an examination all writing within the answer books shall cease. The invigilator may refuse to accept the paper of candidates who fail to observe this requirement.

13 Examination books and other material issued for the examination shall not be removed from the examination room by the authority of the invigilator.

14 Smoking is not permitted in the examination rooms.

Procedures for requesting special consideration, petitions and appeals

Petitions for exceptions to the academic regulations

1 Students may request that an exception to an academic regulation be made in their case. Such a request takes the form of a petition to the Scarborough College Sub-committee on Standing.

2 To enter a petition, the student prepares a written statement, stating clearly the special consideration requested, stating clearly the grounds upon which special consideration is requested and, if the reason(s) why the student believes an exception to be appropriate in this particular case and appealing documents to evidence special circumstances: medical certificates, etc.

3 Students who wish to submit medical certificates in support of their petitions must ask their physician:
   - to verify that the student was examined at the time of the illness;
   - to state the degree of disability involved;
   - to indicate the duration of the disability caused by the illness;
   - to indicate the physician’s professional opinion as to whether the student should receive special consideration with his or her academic work or medical grounds.

4 Students are encouraged to seek advice from counsellors in Counselling Services before entering a petition.

5 Students are notified in writing of the Sub-committee’s decision on their petitions.

Requests for special consideration in a course

Term work

1 Students who are unable to write a term examination, or whose performance is adversely affected by illness or other extraneous circumstances, or who are unable (for these reasons) to submit term assignments by instructors’ deadlines, must (except as noted below) speak with their instructor as soon as possible to request special consideration.

2 Students who wish to appeal the decision of their instructor with respect to a request for special consideration, must, as soon as possible, speak with or write to the Chair of the division offering the course.

3 Where students’ medical problems or other extraneous circumstances occur towards the end of the term, and where they must request extensions of time to submit term assignments or permission to write make up term examinations after the last day of evaluation of term work (shown in the “Academic Calendar” section of this Calendar), students must submit a formal petition to the Sub-committee on Standing. The petition must be submitted as soon as possible and no later than the last day of the relevant examination period.

Final examinations

1 Students who, for reasons of illness or other extraneous circumstances, are unable to write a final examination, may request special consideration by means of a petition to the Sub-committee on Standing. Such petitions must be submitted as soon as possible and no later than the last day of the examination period.

2 When an examination has been missed because of illness, a student who requests special consideration must submit a medical certificate (see Petition 1), above, or in addition:
   - the student was incapable of attempting the examination at the scheduled time.

3 When an examination has been missed because of domestic affliction or other extraneous circumstances, a student must submit appropriate documentation from a professional such as a social worker or lawyer, stating the nature and extent of the problem and certifying that the student was incapable of attempting the examination at the scheduled time.

4 Where students suffer illness or domestic affliction that does not prevent their writing an examination, they are required to attempt the examination. If, after receipt of their final grade (A/F course grades are posted in the Meeting Place early in the second term and a complete statement of results is mailed to students at the end of the session) they believe that their performance has been adversely affected by the illness or other problem, students may then request special consideration by means of a petition to the Sub-committee on Standing. Where the sub-committee accepts the validity of a petition, students will normally be allowed to write a special examination. Students who are concerned that their performance may be affected by illness should visit a physician on the day of the examination to obtain both medical assistance and a medical certificate that may be submitted as a petition proves to be necessary. Petitions of this nature should be entered as soon as possible, but no later than:

   **Summer Sessions:**
   - A, B & C courses - 31 July
   - R, H, S & Y courses - 30 September

   **Winter Sessions:**
   - A, D & F courses - 31 January
   - R, H, S & Y courses - 30 June

(Fore details for courses on other campuses, see the appropriate Faculty Calendar.)

Where students are allowed to rewrite final examinations, the amended grade will stand whether it is higher or lower than the original grade.

5 A fee is charged for all special examinations in Scarborough College courses and the examinations are held as follows:
   - Spring examinations are held in the August examination period.
   - June and August examinations are held in the December examination period.
   - December examinations are held in the study week immediately before the Spring examination period.

Instructions on confirming intention to sit the examination and on payment of the fee will be included in the reply from the Sub-committee on Standing. Failure to respond or pay the fee by the deadline given will result in loss of privilege to sit the examination.

Students are given one opportunity only to sit the special examinations and are expected to be available for the entire special examination period. Students who, unavoidably, will be out of the Toronto area during the special examination period may apply to sit the examination at an outside centre. Students who miss the special examination for legitimate reasons may petition the Sub-committee on Standing either for a repeat sitting or for withdrawal from the course. The Sub-committee will expect very good supporting documentation, usually indicating a long term debilitating illness. Appeal standards will only be considered if the student has completed at least 50% of the course work with a term mark of at least C.

Requests for checking of marks in a course

Term work

Students who believe that their mark on a term examination or term assignment has been calculated incorrectly should speak with the course instructor as soon as possible to request that the mark be checked.
Final examinations
Students who believe that an error has occurred in the calculation of their final examination mark may:
1. Within six months of the relevant examination period, request from the Office of the Registrar a photocopy of their final examination. A copying fee is required at the time of the request.
2. Request a recheck of the calculation through the Office of the Registrar if students believe an error has been made in the calculation of their examination mark. This request must be entered within six months of the relevant examination period. If an error is discovered and the mark is changed, the copying fee will be refunded. Where the mark is changed, the amended grade will stand whether it is higher or lower than the original grade.

Final grade
Students who believe an error has occurred in the calculation of their final grade, may, subject to the Office of the Registrar, request a recheck of the calculation of the grade. This must be done within six months of the relevant examination period. A recheck fee is required at the time of the request. If an error is discovered and the grade is changed, the fee will be refunded. Where the grade is changed, the amended grade will stand whether it is higher or lower than the original grade.

Instructions are required to re-read the final examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

Petition of marks in a course

Term work
1. Students who wish to petition their grade on a term examination, an essay or a term assignment, must speak with the course instructor as soon as possible, and certainly before the end of term.
2. Students who wish to appeal the decision of an instructor with respect to the grading of term work may speak with or write to the Chair of the division offering the course.
3. Students who wish to appeal their grade on term work returned to students only after the end of term (that is, after the instructor submitted grades for the course), may enter a formal petition to the Sub-committee on Standing. See above for information about the petition procedure. Petitions must be entered within six months of the final examination period and will be treated in the same way as requests for re-reading of a final examination (see below).

Final examinations
1. Students may request from the Office of the Registrar a photocopy of their final examination within six months of the relevant examination period. A copying fee is required at the time of the request.
2. After students have seen the photocopy of their final examinations but within six months of the relevant examination period, they may submit a petition to the Sub-committee on Standing to request re-reading of their final examination. The Sub-committee will authorize re-reading only where a student:
   - has articulated clear grounds for reconsideration of some part of the examination, addressing the substance of the answer in relation to the mark given it, or otherwise identifying the nature of the alleged misevaluation;
   - has demonstrated that the alleged misevaluation is of a substantial nature: that is, that, in an objective answer, a correct response has been counted as incorrect; or that, in a subjective or essay answer, the response has been under-evaluated substantially.
   If an error is discovered and the mark is changed, the copying fee will be refunded.
3. Where the Sub-committee on Standing authorizes re-reading of any examination or term of work, it is the responsibility of the division offering the course to arrange the re-reading and to authorize any change in the grade. It has been the usual practice in the divisions to have examinations or term work re-read by the course instructor, unless some convinced evidence is put forward by the student that the work be re-read by another member of the faculty. Claims of prejudice must be supported by a detailed account of events and, if possible, confirmation from a third party.
4. Where the Sub-committee on Standing authorizes re-reading of an examination or term of work, the amended grade will stand, whether it is higher or lower than the original grade.

Instructors are required to re-read the final examination (if any) and to re-check the calculation of term and final marks before submitting a failing grade for any student.

Petitions concerning grading practices in a course
1. Students who believe an instructor has violated a rule of the Grading Practices Policy are expected to discuss this complaint with the instructor at once.
2. If this discussion does not yield a satisfactory resolution to the problem, students may appeal the decision of the instructor to the Chair of the division offering the course.
3. If the appeal does not yield a satisfactory resolution to the problem, students may appeal the decision of the division to the Principal of the College.
4. Students who wish to withdraw from a course after the last day to withdraw without academic penalty on the grounds that the Grading Procedures Policy was violated must also submit a petition to the Sub-committee on Standing.

Petitions to correct errors in course registration or for withdrawal from courses
Petitions to correct errors in course registration or for withdrawal from courses should be submitted as early as possible and no later than:
- 30 June for Winter Session courses
- 30 September for Summer courses

Academic appeals
Students may appeal a decision of the Sub-committee on Standing to the Sub-committee on Academic Appeals. An appeal to the Sub-committee on Academic Appeals must be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student. An appeal is commenced by filing a notice of appeal (on an appropriate form) through the Office of the Vice-Principal and Associate Dean of the College. Full information may be obtained from that office.

The Academic Appeals Committee of the Governing Council
Students may appeal a decision of the Sub-committee on Academic Appeals to the Academic Appeals Committee of the Governing Council. Such appeals must be commenced no later than thirty days after the decision (to be appealed) has been communicated in writing to the student. An appeal is commenced by filing a notice of appeal (on an appropriate form) through the Office of the Academic Appeals Committee. Full information may be obtained from the Office of the Academic Appeals Committee, Office of the Governing Council Secretariat, Room 106, Simcoe St., St. George Campus, telephone 978-8794.

University Ombudsperson
The Ombudsperson assists in any way possible to resolve grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, the Ombudsperson has access to all relevant files and information, and to all appropriate University officials. The Ombudsperson is independent of all administrative structures of the University, and is accountable only to the Governing Council.

For information, advice, or assistance, contact the Office of the University Ombudsperson, University of Toronto, 16 Hart House Circle, Toronto, Ontario M5S 1A1 (Telephone 978-4874).

Sexual Harassment Education, Counselling and Complaint Office
The University of Toronto does not tolerate any form of sexual harassment and is actively endeavouring to provide an environment free of it. All forms of sexual harassment, from verbal abuse to inappropriate touching to sexual assault, are covered by the University's policy. The Sexual Harassment Education, Counselling and Complaint Office was established to educate the University community on this issue. The Sexual Harassment Office also provides counselling and complaints to those people who are the object of unwanted sexual attention and to those who are alleged to have sexually harassed another, as well as implements the formal complaint procedure. Contacting the Sexual Harassment Office is not a commitment to file a complaint and at any point a complaint can be dropped.

The services of the Sexual Harassment Office are available to all members of the University. All complaints and requests for information will be kept completely confidential. The office will cooperate with appropriate authorities and, if necessary also recommend appropriate steps. If the University is involved in an investigation by the appropriate authorities, the University will do all that is required to cooperate with the investigative process. An investigation will cease when the authorities have completed their work and the University will set about to protect all involved parties, in co-operation with the appropriate authorities.
Code of Behaviour on Academic Matters

1. The Code is concerned then, with the responsibilities of faculty members and students, not as they apply to administrative or professional or social groups, but as they apply to the academic life of the University as a whole. It is for the maintenance of academic standards, for the maintenance of the academic community, and for the students as its members. It is for the protection of academic standards, and for the enforcement of academic discipline. It is for the promotion of the intellectual development of the University as a whole.

2. The Code is concerned then, with the responsibilities of faculty members and students, not as they apply to administrative or professional or social groups, but as they apply to the academic life of the University as a whole. It is for the maintenance of academic standards, for the maintenance of the academic community, and for the students as its members. It is for the protection of academic standards, and for the enforcement of academic discipline. It is for the promotion of the intellectual development of the University as a whole.
member, would have committed the offence; or 
(iv) other, someone, chose, or 
so commits or causes to be 
participate in an offence; or 
(v) other, someone, chose, or 
so commits or causes with any 
other person, or, if that person 
were a member, would have 
committed or have been a 
party to the offence. 
(b) Every person to an offence under 
this Code is liable upon 
conviction for the 
commission thereof, or upon 
conviction, as the case may be, to 
the sanctions applicable to that 
offence.

2. Every member who, having an intent to 
commit an offence under this Code, does 
or omits to do anything for the purpose of 
committing or causing the 
commission of an offence, shall be liable to 
the same consequences as if he 
or she had committed the offence.

3. When a group is found guilty of an 
offence under this Code, every officer, 
director or agent of the group, being a 
member of the University, who directed, 
authorized, or participated in the 
commission of the offence, shall be liable 
to the same sanctions as if he 
or she had committed the offence.

C. Procedures in cases involving students

At the decision level and at the 
level of the University Tribunal, the 
procedures for handling charges of academic 
offences involving students shall reflect 
the gravity with which the University views 
such offences. At the same time, these 
procedures and those which ensure students 
the right to appeal represent the 
University's commitment to fairness and 
the cause of justice. 

C.1(a) Divisional Procedure

Note: Where a student commits an 
offence, the faculty in which the student 
is registered has responsibility over the 
student in the matter. In the case of 
Scarborough and York University College, 
the college is deemed to be the faculty.

1. No hearing within the meaning of 
Section 2 of the Statutory Powers 
Procedure Act is requested for the 

2. Where an instructor has reasonable 
grounds to believe that an 
offence has been committed by a 
student, the instructor shall so 
inform the student immediately after 
learning of the act or failure complained of, 
giving reasons, and invite the student 
to discuss the matter. Nothing the 
student says in such a discussion may 
be used or receivable in evidence 
against the student.

3. If after such discussion, the instructor 
is satisfied that no academic 
offence has been committed, he or she 
shall so inform the student and no 
action shall be taken in the matter by 
the instructor, unless fresh evidence 
comes to the attention of the 
instructor, in which case he or she 
may again proceed in accordance with 
subsections 2.

4. If after such discussion, the instructor 
believes that an academic offence has 
been committed by the student, or if 
the student fails or neglects to respond 
to the invitation for discussion, the 
instructor shall make a report of 
the matter to the department chair or, 
through the department chair to the 
dean [Vice Principal and Associate 
Dean; see Section C.1(b)]

5. When the dean [Vice Principal and 
Associate Dean] or the department 
chair decides that the student may 
have been informed, he or she shall 
notified the student, following 
accordance, or provide him or her with 
a copy of this Code and 
subsequently afford the student an 
opportunity for discussion of the 
matter. In the case of the dean [Vice 
Principal and Associate Dean] being 
informed, the chair of the department 
and the instructor shall be invited by 
the dean [Vice Principal and Associate 
Dean] to be present at the meeting with 
the student. The dean [Vice Principal 
and Associate Dean] shall conduct the 
interview.

6. Before proceeding with the meeting, 
the dean [Vice Principal and Associate 
Dean] shall inform the student that he 
or she is entitled to seek advice, or 
to be accompanied by counsel at 
the meeting, before making, and is 
not obliged to make, any statement or 
statement to the student, or in the 
meeting, it may be used or receivable 
in evidence against the student in the hearing of any charge 
with respect to the offence or alleged 
offence in question. The dean [Vice 
Principal and Associate Dean] shall 
also advise the student, without further 
comment or discussion, of the 
sanctions that may be imposed under 
Section C.1(b), and that the dean [Vice 
Principal and Associate Dean] is not 
obligated to impose a sanction but may 
require that the student give reasons, and 
the statements and admissions, if any, 
be made in such a meeting may be used or 
receptible in evidence against the 
student in any such hearing.

7. If the dean [Vice Principal and 
Associate Dean], on the advice of the 
department chair and the instructor, or 
if the department chair, and the advice of 
the instructor, subsequently decides 
that no academic offence has been 
committed and that no further action in 
the matter is required, the student shall 
be so informed in writing and the 
students' work shall be accepted for 
normal evaluation or, if the student 
was prevented from withdrawing from 
the course by the withdrawal deadline, he 
or she shall be allowed to withdraw 
without penalty.

Thereafter, the matter shall not be 
introduced in evidence in a Tribunal 
hearing for another offence.

8. If the student admits the alleged 
offence, the dean [Vice Principal and 
Associate Dean] or the department 
chair may either impose the sanction 
that the student considers appropriate 
under Section C.1(b) or refer the matter 
to the Provost [Vice Principal and 
Associate Dean] or Provost, as the case 
may be, in the event of a 
written request by the 
student in writing 
accordingly. No notice in the 
matter shall be taken by the instructor, 
the department chair, or the 
dean [Vice Principal and Associate 
Dean] if the dean [Vice Principal and 
Associate Dean] imposes a sanction.

9. If the student is dissatisfied with 
a sanction imposed by the department 
chair or the dean [Vice Principal and 
Associate Dean], as the case may be, 
the student may refer the matter to 
the dean [Vice Principal and Associate 
Dean] or Provost, as the case may be, 
for consideration.

10. If the student does not admit the 
alleged offence, the dean [Vice 
Principal and Associate Dean] may, 
after consultation with the instructor 
and the department chair, 
request that the Provost lay a 
charge against the 
student. If the Provost agrees to 
lay a 
charge, the case shall then proceed to the 
Trial Division of the Tribunal.

11. Normally, decanal procedures 
will not be examined in hearing before 
The Tribunal. A failure to carry out 
the procedures referred to in this 
Section, or any defect or irregularity in 
such procedures, shall not invalidate any 
subsequent proceedings of or before 
The Tribunal, unless the chair of the 
hearing considers that such failure, 
defect or irregularity rendered the 
entire proceeding or part of it 
substantially wrong, defective or 
irregularity. The chair shall 
determine at the opening of the 
hearing whether there is going to be 
any objection to defect, failure or 
irregularity.

12. No degree, diploma or certificate 
of the University shall be conferred or 
awarded, nor shall a student be allowed to 
graduate from a course attended 
for the time of the alleged offence until the 
final disposition of the accusations. 
However, a student shall be permitted 

to use University facilities while a 
decision is pending, unless there are 
valid reasons for the dean [Vice 
Principal and Associate Dean] to 
bar him or her from a faculty. A student 
upon whom a sanction has been 
imposed by the dean [Vice 
Principal and Associate Dean] or 
The Provost, as the case may be, 
shall not be allowed to withdraw from 
a course so as to avoid the sanction 
imposed.

13. A record of cases disposed of under 
Section C.1(a) shall be kept in the academic 
unit concerned and may be referred to 
by the dean [Vice Principal and
Associate Dean] in connection with a decision to proceed, or by the prosecution in making representations to the Academic Board in connection with a decision to impose the Tribunal on any subsequent offence committed by the student. Information on such cases shall be available to other academic units upon request and each shall be reported by the dean [Vice Principal and Associate Dean] to the Secretary of the Tribunal for use in the Provost's annual report to the Academic Board. The dean [Vice Principal and Associate Dean] may contact the Secretary of the Tribunal for advice or for information on cases deposited under Section C II. hereof.

14. Where a provost or invigilator, who is not a faculty member, has reason to believe that an academic offense has been committed by a student at an examination or test, the provost or invigilator shall report the student's dean [Vice Principal and Associate Dean] or department chair, as the case may be, who shall proceed as if he or she were an instructor, by analogy to the other provisions of this section.

15. In the case of alleged offenses not covered by the above and not involving the submission of academic work, such as those concerning forgery or uttering, library or computer facilities or all other things, the procedure shall be regulated by analogy to the other procedures of this section.

C.I.b) Academic Sanctions

1. In an assignment worth 10 percent or less of the final grade, the department chair may handle the matter if:
   (i) the student admits guilt;
   (ii) the assignment of a penalty is limited to at most a mark of zero for the piece of work.

2. If the student does not admit guilt, or if the department chair chooses, the matter shall be brought before the dean [Vice Principal and Associate Dean].

3. The dean shall have the power to record any sanctions imposed on the student's academic record and transcript for such length of time as he or she considers appropriate. However, the sanctions of suspension or a notation specifying academic misconduct as the reason for a grade of zero for a course or the assignment of a mark of zero for the piece of work shall be recorded for a period of five years.

4. The Provost shall, from time to time, indicate appropriate sanctions for certain offenses. These guidelines shall be sent for information to the Academic Board and attached to the Code of Behaviour.

5. C.I.b) Tribunal Sanctions

One or more of the following sanctions may be imposed by the Tribunal upon the conviction of any student:

(a) a written reprimand;
(b) a written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offense was committed, for evaluation. Such a sanction shall be imposed only for minor offenses and where the student has committed no previous offense;
(c) assignment of a grade of zero or failure for the piece of academic work in respect of which the offense was committed;
(d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offense was committed;
(e) denial of privileges to use any facility of the University, including library and computer facilities;
(f) a monetary fine to cover the costs of replacing damaged property or misused supplies in respect of which the offense was committed;
(g) assignment of a grade of zero or a failure for the course in respect of which the offense was committed;
(h) suspension from attendance in a course or courses, a program, an academic division or unit, or the University for a period of not more than twelve months. Where a student has not completed a course or courses in respect of which an offense has not been committed, withdrawal from the course or courses without academic penalty shall be recorded for a period of five years;
(i) suspension from attendance in a course or courses, a program, an academic unit or division, or the University for such a period of time up to five years as may be determined by the Tribunal. Where a student has not completed a course or courses in respect of which an offense has not been committed, withdrawal from the course or courses without academic penalty shall be recorded for a period of five years;
(j) recommendation of expulsion from the University. The Tribunal has power only to recommend that such a penalty be imposed. In any such case, the recommendation shall be made by the Tribunal to the Provost for recommendation to the Provost and the President for recommendation to the Academic Council. Expulsion shall mean that the student shall be denied any further registration at the University, his or her academic record and transcript shall be permanently closed. Where a student has not completed a course or courses in respect of which an offense has not been committed, withdrawal from the course or courses without academic penalty shall be allowed. If a recommendation for expulsion is not adopted, the Governing Council shall have the power to suspend publication of the roll until as it deems fit.

(j) (i) recommendation to the Governing Council for cancellation, recall or suspension of one or more degrees, diplomas or certificates obtained by any former student who, while enrolled, committed any offense which he or she was found guilty of before the granting of the degree, diplomas, certificate, standing or credits would, if the judgment of Tribunal, have resulted in a conviction and the application of a sanction sufficiently severe that the degree, diplomas, certificate, standing or credits or marks would not have been granted.

2. The jury shall have the power to order that any sanction imposed by the Tribunal shall be recorded on the student's academic record and transcript for such length of time as the jury considers appropriate.

3. The Tribunal may, if it considers appropriate, report any case to the Provost and publish a notice of the decision of the Tribunal and the sanctions imposed in the University newspapers, with the name of the student withheld.

NOTE: The College has a policy on the use of calculators in tests and examinations. Students should consult with instructors about whether use of calculators is permissible in their course and if so which models are approved. The use of an unauthorized calculator may be treated as an academic offense.
Code of Student Conduct

A. Preface

1. The University of Toronto is a large community of teaching, administrative staff and students, involved in teaching, research, learning and other activities. Student members of the University are adherents to a division of the University for the period of their registration in the academic program to which they have been admitted and as such assume the responsibilities that such registration entails.

2. As an academic community, the University governs the activities of its members by standards such as those contained in the Code of Behaviour on Academic Matters, which provides definitions of offences that may be committed by student members and which are deemed to affect the academic integrity of the University's activities.

3. The University sponsors, encourages or tolerates many non-academic activities of its members, both on its campuses and away from them. These activities, although generally separate from the defined requirements of students' academic programs, are a valuable and important part of the life of the University and of its students.

4. The University does not stand in the parents to its student members, that it, it has no general responsibility for the moral and social behaviour of its students, as if they were its wards. In the exercise of its disciplinary authority and responsibility, the University treats students as free persons to organize their own personal lives, behaviour and associations subject only to the law and to University regulations that are necessary to protect the integrity and safety of University activities, the peaceful and efficient enjoyment of University housing by residents and neighbours, or the freedom of members of the University to participate reasonably in the programs of the University and in activities or on the University's premises. Strict regulation of such activities by the University of Toronto is otherwise neither necessary nor appropriate.

5. University members are not, as a group, subject to the criminal or civil laws of the wider political units to which they belong. Provisions for non-academic discipline should not attempt to shelter students from their civic responsibilities but add unnecessarily to these responsibilities. Conduct that constitutes a breach of the Criminal Code or other statute, or that would give rise to a civil claim or action, should ordinarily be dealt with by the appropriate criminal or civil court. In cases, however, in which criminal or civil proceedings have not been taken or would not adequately protect the University's interests and responsibilities as defined below, proceedings may be brought under a discipline code of the University, but only in cases where such internal proceedings are appropriate in the circumstances.

6. The University must define standards of student behaviour and make provisions for student discipline with respect to conduct that jeopardizes the good order and proper functioning of the academic and non-academic programs and activities of the University or its divisions, that endangers the health, safety, rights or property of its members or visitors, or that adversely affects the property of the University or bodies related to it, where such conduct is not for, the University's defined purposes, adequately regulated by civil and criminal law.

7. Nothing in this Code shall be construed to prohibit peaceful assemblies and demonstrations, lawful picketing, or to inhibit freedom of speech as defined in the University.

8. In the Code, the word "premises" includes lands, buildings and grounds.

9. In this Code, "student" means a member of the University

i) engaged in any academic work which leads to the recording and/or issue of a degree or certificate of completion by the University in an academic course or program of study in the University.

ii) member of a student group which entitles the member to the use of a University library, library materials, library resources, computer facility or dataset.

10. In the following, the words "University of Toronto" refer to the University of Toronto and include any institutions federated or affiliated with it, and the inclusion has been agreed upon by the University and the federated or affiliated institution, with respect to the premises, facilities, equipment, services, activities, students and other rights of the federated or affiliated institution.

11. In this Code, where an offence is described as depending on "knowing," the offence shall likewise be deemed to have been committed if the person ought reasonably to have known.

12. This Code is concerned with conduct that the University considers unacceptable. In the case of student members of the University, the procedures and sanctions described herein shall apply. In the case of other members of the University, such conduct is to be dealt with in accordance with the established policy, procedures and agreements that apply to the members.

B. Offences

The following offences constitute conduct that shall be deemed to be offences under this Code, when committed by a student of the University of Toronto, provided that such conduct:

i) has not been dealt with as a failure to meet standards of professionalism conduct as required by a college, faculty or school, and

ii) is not specifically assigned to the jurisdiction of the University Tribunal, as in the case of offences described in the Code of Behaviour on Academic Matters, or to another disciplinary body within the University of Toronto, as in the case of sexual harassment as described in the Policy and Procedure: Sexual Harassment, and

iii) occurs on premises of the University of Toronto or elsewhere in the course of activities sponsored by the University of Toronto or by any of its divisions.

1. Offences against persons

a) No person shall assault another person or cause another person to fear bodily harm.

b) No person shall threaten another person, threaten any other person with bodily harm, or knowingly cause any other person to fear bodily harm.

c) No person shall knowingly create a condition that unreasonably endangers the health or safety of other persons.

2. Disruptions

No person shall by action, threat or otherwise, disturb the order of any activity organized by the University of Toronto or by any of its divisions, or the right of another member or members to carry on their legitimate activities, to speak or to associate with others.

For example, peaceful picketing for other activity outside a class or meeting that does not substantially interfere with the communication inside, or impede access to the meeting, is an acceptable expression of dissent. And silent or symbolic protest is not to be considered disruption under this Code, but that occurs that obstructs the conduct of a meeting or forcible blocking of access to an activity constitutes disruption.

3. Offence involving property

a) No person shall knowingly take, destroy or damage any property of the University of Toronto.

b) No person shall knowingly take any physical property that is not her or his own.

c) No person shall knowingly destroy or damage information or intellectual property belonging to the University of Toronto or to any of its members.

d) No person, in any manner whatsoever, shall knowingly deface the inside or outside of any building of the University of Toronto.

e) No person, knowing the effects or property to have been appropriated without authorization, shall possess effects or property of the University of Toronto.

f) No person, knowing the effects or property to have been appropriated without authorization, shall possess property that is not her or his own.

4. Unauthorized entry or presence

No person shall, contrary to the express permission of a person or persons authorized to give such instruction, or with intent to damage or destroy the premises of the University of Toronto or damage, destroy or steal any property on the premises of the University of Toronto that is not her or his own, or without just cause knowingly enter or remain in or on any such premises.
5. Unauthorized use of University facilities, equipment or services
   a) No person shall knowingly use any facility, equipment or service of the University of Toronto contrary to the expressed instruction of a person or persons authorized to give such instruction, or without just cause.
   b) No person shall knowingly gain access to or use any University computing or internal or external communications facility to which legitimate authorization has not been granted. No person shall use any such facility for any commercial, disruptive or unauthorized purpose.
   Appropriate uses for University connections to external networks are described, for example, in the policy document "Appropriate Use Policy for the Otter Network."
   c) No person shall knowingly monitor, misplace, misfile, or render inoperable any stored information such as books, films, data files or programs from a library, computer or other information storage, processing or retrieval system.

6. False charges
   No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto under this Code.

7. Aiding in the commission of an offence
   No person shall counsel, procure, conspire with or aid a person in the commission of an offence defined in this Code.

8. Refusal to comply with sanctions
   No person found guilty of an offence under this Code shall refuse to comply with a sanction or sanctions imposed under the procedures of this Code.

C. Hearing Procedures

Anyone who believes an offence under this Code has been committed, may initiate a complaint by bringing the matter to the attention of the principal of the college or dean of the faculty of the student who is alleged to have committed the offence.

D. Sanctions

The following sanctions or combinations of them may be imposed upon students found guilty of committing an offense under this Code.

- 1. Formal written reprimand
- 2. Order for restitution, rectification or the payment of damages
- 3. A fine or bond for good behavior not to exceed $100
- 4. Requirement of public service work not to exceed 25 hours
- 5. Denial of access to specified services, activities or facilities of the University for a period of up to one year
- 6. Suspension from registration in any course or program of a division or divisions for a period of up to one year
- 7. Recommendation for expulsion from the University

Part-time Studies

All students, whether part-time or full-time, are subject to the same admission standards, are governed by the same rules and regulations, and are required to satisfy the same degree requirements.

It is true, however, that students whose outside commitments prevent them from coming to the College during the day may find that they have less access to services in the University (although the Registrar’s Office is open from 5:00 pm to 7:00 pm on class nights) and to the informal student network. Part-time students should try to make the time to develop contact with their fellow students and with faculty members, since this is an integral part of the University experience. When problems arise, evening students are encouraged to contact Counseling Services (387-2550). Counseling Services does not have regular evening hours but evening counseling appointments can be arranged. In addition, the Association of Part-time Undergraduate Students (APUS) serves as the voice of part-time students in the University and can be a source of help.

Admission to Scarborough College

The same admission standards are applied to both full-time and part-time students. More information on admission for mature students and application deadlines is in the Admissions section of this Calendar. Any questions or concerns can be addressed by contacting the Assistant Registrar - Admissions at 287-7729.

Awards

Part-time students are considered for most awards and scholarships on the same basis as full-time students. Some special awards and bursaries for part-time students are available through APUS. For further information see the Awards section of this calendar.

Academic Regulations and Degree Requirements

Part-time students are governed by the same regulations as any other student. Students are responsible for reading through the section of this Calendar dealing with Academic Regulations. When in doubt, students should contact the Office of the Registrar or Counseling Services for assistance in interpreting regulations and their applications in particular cases. We have noted below several regulations that seem of particular relevance to part-time students. However, this list is by no means exhaustive. It must be emphasized that all
rules and regulations apply to part-time students and that the fact that a particular rule is not quoted below in no way suggests that it will not apply.

1. Because part-time students are often involved in their studies for more than full-time students, part-time students may more frequently find that degree or programme requirements change during their academic career. When changes occur, students are usually advised, sometimes for a limited period of time, to continue under the old rules. This does not usually apply to rules other than degree or programme requirements.

2. Although the College attempts to make available to part-time students as many evening courses as possible, students may occasionally find that it is to their benefit to take courses on other campuses of the University. Students, of course, may not receive credit twice for courses that are deemed to be exclusions.

3. Part-time students are governed by the same regulations concerning the dropping of courses as all other students.

4. Students should be aware that special circumstances may in certain cases justify an exception to the academic regulations. Requests for special treatment take the form of a petition to Scarbrough College Subcommittee on Standing. Students who believe that special consideration is necessary should contact a counselor in Counseling Services at the earliest possible time to discuss the appropriate form of action. Students should be aware that special consideration may not be granted and that they should avoid taking any action that will harm them if the petition is denied.

Choosing a Programme

Since most students must complete programmes and since evening course offerings are limited, evening students should plan their course selection very carefully. Students should realize that certain courses may not be available in a particular session.

Programmes which are available in the evening are listed below with a brief description of the availability of courses. Students are encouraged to contact their Programmes in advance of the beginning of the registration for the next semester. The complete programme is available in the Registrar's Office normally in February.

Anthropology Specialist and Major Programmes

 Normally, one of the following core requirements is offered on a rotational basis: ANT100Y, ANT200Y, ANT300Y.

Economics Major Programme

Each of the four courses specifically required for the Economics Major (ECO100Y, ECO200Y, ECO300Y, ECO400Y) is offered in the evening at least once each year. ECO100Y and ECO400Y are offered in both summer and winter evening sessions each year. ECO200Y and ECO300Y are offered in each winter evening session, and one is usually offered in each summer session. Each winter session, and in some summer sessions, at least one other course at the B, C, or D level is offered.

English Specialist and Major Programmes

English courses, as far as possible, are arranged as follows:

ENGL101Y - every two years.
ENGL201Y - every two years.
ENGL301Y - every four years.
ENGL391Y - every four years.

Pre-1000 courses - at least two years. Post-1000 courses - at least one year. D-level courses - usually 3 half-courses every year.

History Specialist and Major Programmes

HIST101Y offered in the evening normally every other year. Upper-level History courses - at least two offered every year.

Philosophy Specialist and Major Programmes

PHL101Y offered in the evening every other year.

POLI101Y, PHL101Y, PHL201Y, PHL501Y - two of these courses are usually offered every year.

Political Science Major Programme

POLI201Y offered every second year. Core area courses (POLI200Y, 300Y, 400Y, 500Y) offered every three or four years.

Psychology Specialist and Major Programmes

The following courses are normally offered annually in the evening and/or in the summer: PSY101Y, PSY201Y, and PSY300Y, all of which are required for both programmes. As well, all courses in each of the content areas and all D-level courses appear in the evening or summer on

approxiyatly a 3-year cycle. Part-time students are also encouraged to check the offerings on the St. George campus, to which they have access and which they will find are not identical to those at Scarbrough in a given year.

Sociology Minor Programmes

Some Sociology courses will be offered in the evening or summer session every year. These will normally include SOC101Y and one full-course equivalent at the B or C level. Every effort will be made to raise these upper level courses so that students can complete the Minor Programme in Sociology in not more than three years.

Telephone directory:

frequently called numbers

Athlone Association (S.C.A.A.)
287-7096

Bookstore
287-7035

Calderia
287-7057

Campus Police (Including Lost and Found)
287-7398

Career Counselling & Placement
287-7599

Computer Centre
287-7389

287-7390

287-7391

Co-operative Programmes
287-7110

Counselling Services
287-7150

Development & Public Relations Office
287-7080

Drama
287-7175

Fees Department
978-2142

Health Services
287-7065

High School Liaison (Towns)
287-7556

Humanities Division
287-7117

International Student Centre
978-2564

Library
287-7482

Injury, Creational Desk
287-7480

Reference Desk
287-7482

Life Science Division
287-7400

Biological Sciences,
Psychology
Chair's Office
287-7397

Music
287-7194

Management & Economics Division
287-7331

Secretary
Chair's Office
287-7341

Associate Chair
287-7348

Physical Sciences Division
287-7200

R-Wrap Office
287-7195

S-Wrap Office
287-7197

Physicul Plant Services
287-7575

(Parking enquiries)

Principals and Dean
287-7025

Pub
287-7616

Recreation Centre
287-7099

Office (administration)
287-7099

Registrar's Office
287-7537

Inquiries
287-7529

Automated Telephone Course
Registration Service
872-8638

Residences
Office
287-7366

Dean of Students
287-7150

in Residence
287-7150

Social Science Division
287-7282

Receptionist
Chair's Office
287-7287

Student Awards (OSAP)
978-7950

Student's Council
287-7356

Vice-Principal and Associate Dean
287-7356

Writing Centre
287-7352

APUS
978-3993
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Untitled 184 cm × 151 cm
by Sheree Wong, a first year student in the
Fine Art Studio Programme at Scarborough College.