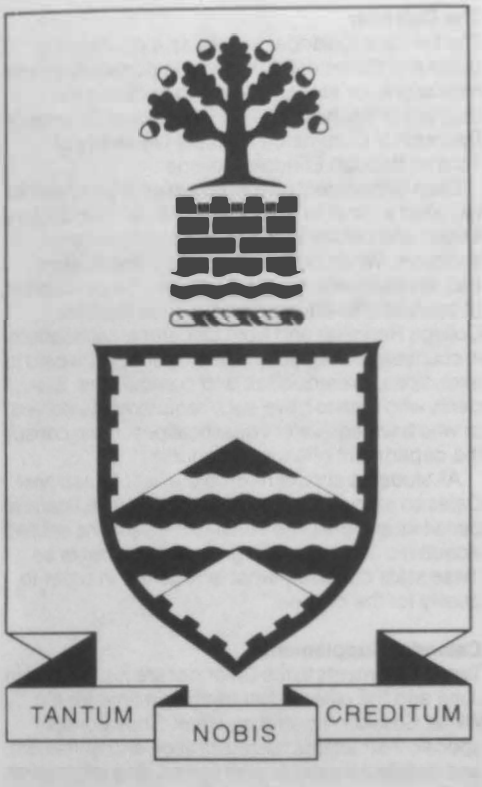

On January 8, 1975, the College of Arms granted to Erindale College its coat of arms in the following heraldic terms:

"Vert a Chevron barry wavy Argent and Azure a Bordure embattled Or And for the Crest On a Wreath Or and Vert Issuing from the battlements of a Tower proper rising from Water barry wavy Azure and Argent an Oak Tree fructed Or leaved proper, as the same are in the margin hereof more plainly depicted. And by the authority aforesaid We do further grant and assign the following Device or Badge that is to say a Roundel Vert thereon a Pile throughout Or overall a Fess wavy Azure charged with a like Barrulet Argent."

Green and gold, the colours of Erindale, predominate in the coat of arms representing the natural beauty of the campus. The oak tree comes from the University of Toronto coat of arms with its motto, *Velut arbor aevo*, "May the tree thrive". The wavy blue and silver bars in the chevron signify the location of the College at a major bend in the Credit River and the motto, *Tantum Nobis Creditum*, "So much has been entrusted to us" is a word play on the name of the river.

Erindale College, one of the eight Colleges that constitute the Faculty of Arts and Science in the University of Toronto, opened in September 1967, as a suburban campus of the University. The College offers the Arts and Science Programme and students may qualify for the University of Toronto Bachelor of Arts, Bachelor of Science or Bachelor of Commerce degree. The admission regulations are those of the University of Toronto.

Erindale College is located thirty-two kilometres west of downtown Toronto on Mississauga Road, in the City of Mississauga.

Anyone wishing information about the College may write to: The Registrar, Erindale College, University of Toronto, Mississauga Road, Mississauga, Ontario, L5L 1C6.

The telephone number for information is 416-828-5399.

Erindale College Council

The Erindale College Council develops academic policy, awards scholarships, bursaries, prizes and other awards in the gift of the College and advises the Principal on all matters concerning the conduct of College affairs. It is composed of the chief academic administrators of the College, all members of the teaching staff, 60 full-time undergraduates, 15 part-time undergraduates, 5 graduate students, the Heads of administrative departments, 5 members of the administrative staff, 2 members of the Erindale alumni and 2 members of the Associates of Erindale.

The Council appoints three standing committees: the Executive Committee, Academic Affairs Committee and College Affairs Committee. Each of these may appoint such sub-committees as are deemed necessary to carry on the policy and decision making of the College. Like the Council itself, the composition of all committees reflects the various interests and concerns of all College members. The dates of the meetings of the Erindale College Council are listed in the Sessional Dates in this Calendar.

Important Information

1. The Council of the Faculty of Arts and Science reserves the right to change the content of, or to withdraw, any course. In such cases every effort will be made to provide equivalent alternative instruction, but this cannot be guaranteed.
2. The Faculty also reserves the right to limit the number of students in a course or any section of a course if the number of qualified applicants exceeds the resources available. Notwithstanding this, every effort will be made to accommodate students, particularly in 100 series courses, although it is understood that some limitation on the availability of certain sections will have to be made.
3. The University reserves the right to alter the fees and other charges described in the Calendar.
4. This Calendar provides information for Erindale College only. Separate calendars are published by the University of Toronto for the St. George campus and Scarborough College.
5. The words "man" and "he" are used in the generic sense throughout this Calendar.
6. ACADEMIC OFFENCES ARE A SERIOUS MATTER. See page (36).
7. The University holds the student responsible for knowing the rules and regulations printed in the Calendar.
8. Receipt of registration material or any college publication, submission of a registration form or payment of fees does not necessarily constitute eligibility to register in the coming session. Students who are suspended as a result of the May or August examinations will be so informed on the Statement of Results and will not be permitted to register. Any fees paid toward the session will be refunded in full.

Publications

The Calendar
The Erindale Calendar serves as a counselling guide and statement of the most important rules and regulations for students seeking to obtain the degrees of Bachelor of Arts, Bachelor of Science or Bachelor of Commerce from the University of Toronto through Erindale College.

Each department offering courses at Erindale has included a list of its academic staff, an introductory essay, and details of the programmes which it sponsors. When selecting courses, the student should read these essays, as well as the description of courses offered, and seek advice from the College Registrar and from Departmental academic counsellors. Particular attention should be paid to exclusions, prerequisites and corequisites. Students who wish to have such requirements waived, or who have equivalent qualifications, must consult the department offering the course.

All students should refer to the list of *Sessional Dates* so as to avoid incurring academic or financial penalties and are urged to read the sections entitled *Academic Status and Degree Requirements* as these state concisely what is required in order to qualify for the degree.

Calendar Supplements
Two supplements to the Calendar are issued: one in June and the other in September in time for the Winter Session registration week. They contain specific instructions for registration and enrolment, and detailed timetable and scheduling information for the winter session. The information they contain is just as important as that in this Calendar.

Schedule of Fees
This publication which contains information on academic and incidental fees, payment procedures and refunds, is sent to each student before registration.

Summer Session Information
Contains information about Summer Session and a list of course offerings. It is available in February.

The Erindale College Awards Bulletin
Provides information on Government financial assistance, scholarships, medals, prizes and bursaries. A copy may be obtained from the Awards and Financial Aid Office, Room A3094, South Building, and the Registrar's Office, Room 2122, South Building.

Table of Contents

Sessional Dates 1986-87 5
University and College Officers 7
Erindale College Faculty 9

1 Admission information 13
Admission Requirements 13
Fees 17
Scholarships and other Awards 18

2 Student Services 19
Student Organizations 21

3 Academic Regulations 22
Degrees 22
Distribution requirement 24
Courses 24
Degree Requirements 26
Recognition of Exceptional Academic Achievement 27

4 General regulations 28
Registration, Enrolment and Withdrawal Grades 28
Averaging and Status 31
Faculty Final Examinations 32
Student Records 33
Discipline 36

5 Courses and Programmes 37
Specialist, Major, Minor Programmes and Programme Codes 37
Erindale Approved Areas of Study 56
Individual Areas of Study 61
Special Erindale Programmes 62
Other Programmes 63

6 Course Descriptions 65
Course Key 65
Alphabetical Course Listings 66
Woodsworth College Course 157
Certificate Programmes at Erindale 158

Index 159

Calendars

1986

January

S	M	T	W	T	F	S
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Sessional Dates 1986 - 1987

1986	
March 15	Last date for new students to apply for admission in order to take A, F, H, and Y courses in Summer Session
March 28	Good Friday - University closed
April 1	Last date for students to submit a Request for Re-registration Form in order to take A,F,H and Y courses in Summer Session if they have studied in another Faculty or at another post-secondary institution since their last registration in the Faculty of Arts & Science
May 9	Last date for registration for A, F,dH and Y courses. After this date, a late registration fee will be imposed
May 12	Summer Session begins. Classes begin in A, F, H and Y courses
May 15	New students must apply for admission before this date in order to enrol in B and S courses in Summer Session
May 16	Last date to enrol in A, F, H and Y courses
May 19	Victoria Day - University closed
May 28-29	English Proficiency Tests
June 1	Last date for new students to apply for admission in order to enrol in A,F,H and Y courses in Winter Session
June 6	Last date to withdraw from A and F courses without academic penalty
June 15	Last date for students to submit a Request for Re-registration Form in order to take B and S courses in the Summer Session, if they have studied in another Faculty or at another post-secondary institution since their last registration in the Faculty of Arts & Science
June 18	Spring Convocation for Erindale College
June 20	Classes end in A and F courses; all term work must be submitted by this date
June 23-26	Final examinations may be held in A and F courses. Classes in H and Y courses continue to meet
June 27	First Term Classes end in H and Y courses and will resume July 7th
June 30	Last date for registration for B and S courses; after this date a late registration fee will be imposed Last date to submit programme enrolment forms to the Registrar Last date to request transfer to St. George Campus for full-time studies
July 1	Canada Day - University closed
July 2	Second term begins. Classes begin in B and S courses
July 7	Last date to enrol in B and S courses
July 18	Last date to withdraw from H and Y courses without academic penalty
July 25	Last date to withdraw from B and S courses without academic penalty
August 4	Civic Holiday - University closed
August 8	Classes end in B, H, S and Y courses; all term work must be submitted by this date
August 11-15	Final Examinations in B, H, S and Y courses
August 15	Last date for students restricted to part-time studies to request transfer to full time studies Last date for students to submit a Request for Re-registration Form in order to take A,F, H and Y courses, in the Winter Session, if they have studied in another Faculty or at another post-secondary institution since their last registration in the Faculty of Arts and Science
September 1	Labour Day - University Closed
September 2-5	Registration Week
September 5	Statements of Results mailed beginning today Last date for registration; after this date, a late registration fee will be imposed
September 8	First term begins. Classes begin in A, F, H and Y courses
September 9-12	English Proficiency Tests
September 19	Last date to enrol in A, F, H and Y courses Last date for students who expect to graduate at the Fall Convocation to notify the Registrar Last date to submit programme enrolment forms to the Registrar

October 13	Thanksgiving Day - University closed
October 20	Erindale College Council meets
October 31	Last date to withdraw from A and F courses without academic penalty
November 14	New students must apply for admission before this date in order to enrol in B and S courses in Winter Session
November 19-21	Fall Convocations
November 25	Erindale College Council meets
December 5	Classes end; all term work in A and F courses must be submitted by this date
December 8-19	Final examinations in A and F courses. Term tests for multi-section H and Y courses may be held
December 12	Last date for students in the Study Elsewhere Programme to confirm their programmes
December 12	Last date for students to submit a Request for Re-registration Form in order to take B and S courses in the Winter Session, if they have studied in another Faculty or at another post-secondary institution since their last registration in the Faculty of Arts & Science

1987

January 5	Second term begins
January 15	Second installment of fees due
January 16	Last date to enrol in B and S courses
January 21-22	English Proficiency Tests
January 21	Erindale College Council meets
February 13	Last date to withdraw from H and Y courses without academic penalty
	Last date to apply for the Study Elsewhere Programme
	Last date for students who expect to graduate at the Spring Convocation to notify the Registrar and to change their programme enrolment
February 16-20	Reading Week
February 27	Last date to withdraw from B and S courses without academic penalty
March 13	Last date for new students to apply for admission in order to enrol in A, F, H and Y courses in Summer Session
March 19	Erindale College Council meets
April 10	Classes end; all term work in B, H,sS and Y courses must bes submitted by this date
April 13-15	Study period; no tests or examinations may be held in this periods
April 16-May 8	Final examinations in B, H, Ss and Y coursess
April 17	Good Friday - university closeds
May 11	Summer Session begins. Classes begin in A, F, H and Y coursess
May 27-28	English Proficiency Testss
June 1	Last date for new students to apply for admission in order tos take A, F, H and Y courses in Winter Session
	Statements of Results for Graduating students mailed beginning todays
June 15	First Convocation for the Faculty of Arts and Sciences
June 15	Statements of Results for students who are not graduatings mailed beginning todays
June 19	Classes end in A and F courses; all term work must bes submitted by this date
June 26	First term classes in H and Y courses end and will resumes July 6ths
June 29	Classes begin in B and S courses.
June 30	Last date for receipt ofs applications for transfer to Sts George Campus for full-time studies
August 7	Classes end in B, H, S and Y courses; all term work must be submitted by this date
August 10-14	Final examinations in B, H, S and Y courses
September 4	Statements of Results maileds beginning today

No'e: Course suffixes in this section refer to those which appear in the Calendar Supplement.

University and College Officers

Officers of the University of Toronto - 1985-86

Chancellor
G. Ignatieff, C.C., B.A., M.A., LL.D., D.C.L., D.Litt.S.
Chairman of the Governing Council
St. Clair Balfour, D.S.C., B.A., LL.D.
President
G.E. Connell, B.A., Ph.D., LL.D., F.R.S.C., F.C.I.C.
Vice-President and Provost
J.E. Foley, B.A., Ph.D.
Vice-President, Research
D.M. Nowlan, B.Sc., B.A., M.A., Ph.D.
Vice-President, Business Affairs
A.C. Pathy, Q.C., B.A.Sc.
Vice-President, Institutional Relations
D.R. Cameron, B.A., M.Sc., Ph.D.
Secretary of the Governing Council
J.G. Dimond, B.A., M.A., Ph.D.
Assistant Vice President, Student Affairs
E.A. McKee, M.A.
University Ombudsman
E. Hoffman, B.A.
Director of International Student Centre
E. Paterson, B.A.

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Vice-Dean
I.M. Drummond, M.A., Ph.D.
Vice-Dean
C.P. Jones, M.A., Ph.D.
Vice-Dean
J. Millgate, M.A., Ph.D.
Vice-Dean
J.J.B. Smith, M.A., Ph.D.
Director of Student Affairs
P.D. Harris, M.A.
Executive Officer
C.R.C. Dobell, B.A.
Executive Officer
J.M. Mills, B.A.
Executive Officer
D.L. Myers, B.A.
Assistant Officer
E.M. Ishibashi, B.A.
Director of Academic Records
G.E. Altmeyer, M.A., M.L.S.
Coordinator - Administrative Systems
C.A. Belford, B.Th., B.A.
Coordinator - Academic Systems
K. Heuck, B.Sc.
Coordinator - Student Records
J. Gilliland, B.A.

Officers of Erindale College 1985-86

Principal
P.W. Fox, M.A., Ph.D.
Vice-Principal (Academic)
J.J. Fawcett, B.Sc., Ph.D.
Vice-Principal (Administration)
L.J. Brooks, B.Com., M.B.A., F.C.A.
Associate Dean (Humanities & Part-Time Studies)
R.L. Beck, B.A., M.A., Ph.D.
Associate Dean (Social Sciences)
L.J. Brooks, B.Com., M.B.A., F.C.A.
Associate Dean (Sciences)
J.J. Fawcett, B.Sc., Ph.D.

College Librarian
H.L. Smith, B.A., B.L.S.

Director, Campus Relations
T. Reid, B.Sc.

Registrar
L.T. McCormick, B.A., A.M., Ph.D.

Erindale College Faculty

(As of 1985-86)
**Denotes Discipline Representative/Associate Chairman*

Classics
R.L. Beck, B.A. (Oxford), M.A., Ph.D. (Illinois)
T.G. Elliott*, B.A. (Toronto), Ph.D. (Harvard)
C.I. Rubincam, B.A. (Toronto), B.A. (Oxford), Ph.D. (Harvard)

English
J.H. Astington, B.A. (Leeds), M.A. (McMaster), Ph.D. (Toronto)
B. Corman, A.B., A.M., Ph.D. (Chicago)
V.A. DeLuca*, B.A. (Hamilton Coll), M.A., Ph.D. (Yale)
J. Dutka, B.A., M.A. (Alberta), A.R.C.T. (R.C.M., Toronto), Ph.D. (Toronto)
D. Hill, A.B. (Kenyon Coll), M.A., Ph.D. (Columbia)
I. Lancashire, B.A. (Manitoba), M.A., Ph.D. (Toronto)
M.J. Levene, B.A. (Manitoba), M.A., Ph.D. (Toronto)
R.R. McLeod, A.B. (Harvard), M.A., Ph.D. (Toronto)
M. Northey, B.A. (Toronto), M.A., Ph.D. (York)
J. Skvorecky, Ph.D. (Charles)
R. Sullivan, B.A. (McGill), M.A. (Connecticut), Ph.D. (Sussex)
R.W. Van Fossen, A.B., A.M. (Duke), Ph.D. (Harvard)

Fine Art History (Erindale)
L. Eleen, B.A., M.A., Ph.D. (Toronto)
T. Martone*, B.A., M.A. (Boston), M.A., Ph.D. (Inst. of Fine Art, N.Y.U.)
B. Welsh, B.A., M.Phil., (Toronto), Ph.D. (Utrecht)

Fine Art Studio, (Sheridan College)
R. Achtemichuk, B.F.A. (Manitoba)
J. Armstrong, B.F.A. (Mt Allison), M.A. (Chelsea Sch. of Art, London), D.Phil. (Courtauld Inst.)
M. Belisle, B.A., B.Ed. (Ottawa), M.F.A. (Rochester)
E. Brittan, Dip.A.D. (Hornsey College of Art London), A.T.C. (London)
T. Bollinger, B.A. (Basle), M.S.A. (Inst. Allende, Mexico)
J. Crossan, Dip.Ind.Des.(Ontario College of Art)
P. Hogan, Dip.Graphic Design (Sheridan College)
Z. Markan, B.F.A. (Nova Scotia College of Art & Design)
H. Moelchert, B.S.A., M.Sc. (Georgia)
J. Plow, Dip.Photo Arts (Ryerson)
C. Schiffleger Bobb, B.Sc., M.Sc. (Wisconsin), R.C.A.
R. Sewell, B.A. (Missouri)
H. Simkins, B.A. (York)
A. Smith, B.A. (Wellesley), M.A. (Mills), M.F.A. (California), Ph.D. (Toronto)
B. Zack, B.A. (Concordia), M.F.A. (Rutgers), R.C.A

French
C. Cloutier-Wojciechowska, Les.L. (Laval), Dde l'U. (Paris)
M-P. Ducretet*, L.PhL., Agr.E.M.S. (Lovanium), D.PhL. (Louvain)
C. Elkabas, B.A. (York), M.A., Ph.D. (Illinois: Urbana- Champaign)
P. Leslie, B.A. (Guelph), M.es.L. (Strasbourg)
J. Paterson, B.A., M.A., Ph.D. (Toronto)
N.J. Swallow, B.A., M.A., Phil.M. (Toronto)
D.A. Trott, B.A. (U.B.C.), M.A., Ph.D. (Toronto)
H.H. Weinberg, B.A. (Roosevelt), M.A. (Northwestern), Ph.D. (Michigan)

German
J. Bielert, B.A. (Queen's), M.A., Ph.D. (Toronto)
C. Saas*, B.A. (Wisconsin), M.A., Ph.D. (Indiana)

History
S. Aster, B.A., M.A. (McGill), Ph.D. (L.S.E., London)
M. Dafoe, B.A. (Manitoba), M.A. (Queen's)
R.E. Johnson, B.A. (Antioch), Ph.D. (Cornell)
C. La Vigna, B.A. (Skidmore), Ph.D. (Rochester)
L. MacDowell, B.A. (Toronto), M.Sc. (L.S.E., London), Ph.D. (Toronto)
D.P. Morton, B.A. (R.M.C.), B.A., M.A. (Oxford), Ph.D. (London)
A.C. Murray, B.A., Ph.D. (Toronto)
R.W. Pruessen, B.A. (C.U.N.Y.), M.A., Ph.D. (Pennsylvania)
D.L. Raby, B.A. (Cambridge), Ph.D. (Warwick)
W.B. White*, A.B. (Missouri), M.S., Ph.D. (Wisconsin)

Italian
G. Katz, B.A. (London), M.A., Ph.D. (Toronto)
M. Lettieri, B.A., M.A., Ph.D. (Toronto)
L.T. McCormick, B.A. (Toronto), A.M., Ph.D. (Rutgers)
G. Pugliese*, B.A., M.A., Ph.D. (Toronto)

Linguistics R. Binnick, B.A. (Queen's College, C.U.N.Y.), M.A., Ph.D. (Chicago)

Philosophy
J. Brunning, B.A. (Madonna), M.A. (Detroit), M.A., Ph.D. (Toronto)
J.V. Canfield, B.A. (George Washington), M.A., Ph.D. (Brown)
C.E. Cassin, B.A., M.A. (Oxon), M.A., Ph.D. (Florida)
D. Goldstick, B.A. (Toronto), B.Phil., D.Phil. (Oxon)
A. Gombay, B.A. (McGill), B.Phil. (Oxon)
W.J. Huggett, B.A., M.A., Ph.D. (Toronto)
G. Hunter, B.A. (Bishops), M.A., Ph.D. (Toronto)
D.S. Hutchinson, B.A. (Queen's), B.Phil., D.Phil. (Oxon.)
B.D. Katz, B.A. (Manitoba), M.A., Ph.D. (Cornell)
E.J. Kremer*, A.B. (St. Louis), Ph.D. (Yale)
C. McKinnon, B.A. (McGill), B.Phil. (Oxon)
C.G. Normore, B.A. (McGill), Ph.D. (Toronto)
H. Pietersma, B.A. (Calvin College), M.A. (Indiana), Ph.D. (Toronto)

Religious Studies
M. Desjardins, B.A. (Alberta), M.A. (British Columbia)
L.J. Elmer, B.A., S.T.B. (Toronto), S.T.D. (St.Thom.Aquinas)
R.P. Hayes, B.A. (Carleton), M.A., Ph.D. (Toronto)
M.J. Lavelle, B.A. (Windsor), M.A. (Marquette)
L.E. Schmidt*, B.A., M.A., Ph.D. (Toronto)
L.J. Trafford, B.A., M.A., Ph.D. (Toronto)

Spanish
M. Cohen, Doc.Fil.Rom. (Madrid)
O. Hegyi*, Ph.D. (Toronto)
E.G. Neglia, B.A. (Roosevelt), M.A. (Illinois), Ph.D. (Washington Univ.)

Life Sciences

Botany
J.B. Anderson, B.A. (Rhode Island), Ph.D. (Vermont)
P.W. Ball, B.Sc. (London), Ph.D. (Leicester)
W.R. Cummins, B.Sc. (McMaster), Ph.D. (Michigan State)
W.G. Filion, B.A. (Queen's), M.Sc. (Guelph), Ph.D. (UWO)
P.A. Horgen*, B.A. (N Iowa), M.Sc. (Iowa), Ph.D. (SUNY)
R.T. Irvin, B.Sc., Ph.D. (Calgary)
L.M. Kohn, B.Sc. (Vermont), Ph.D. (Cornell)
P.F. Maycock, B.A. (Queen's), M.Sc., Ph.D. (Wisconsin)
J. Svoboda, B.Sc. (U.W.O.), Ph.D. (Alberta)
G.R. Thaler, M.Sc. (McMaster), Ph.D. (Toronto)

Psychology
R. Abramovitch, B.A. (McGill), M.A., Ph.D. (Minnesota)
T.M. Alloway, B.A. (Knox), M.A., Ph.D. (Northwestern)
K. Blankstein, B.A. (McMaster), M.A., Ph.D. (Waterloo)
C.M. Corter, B.A. (Davidson), Ph.D. (UNC)
F.I.M. Craik, B.Sc. (Edinburgh), Ph.D. (Liverpool)
M. Daneman, B.A. (Witwatersrand), M.A. (Toronto), Ph.D. (Carnegie-Mellon)
A.S. Fleming, B.Sc. (Columbia), Ph.D. (Rutgers)
L. Krames, B.A., M.A., Ph.D. (Temple)
M. Moscovitch, B.Sc. (McGill), M.A., Ph.D. (Penn)
P. Pliner*, B.S. (Purdue), Ph.D. (Columbia)
J. Polivy, B.S. (Tufts), M.A., Ph.D. (Northwestern)
B. Schneider, B.A. (Michigan), Ph.D. (Harvard)
S.E. Trehub, B.Com., M.A., Ph.D. (McGill)

Zoology
T.M. Alloway, B.A. (Knox), M.A., Ph.D. (Northwestern)
R.L. Baker, B.Sc. (Guelph), M.Sc., Ph.D. (Alberta)
N.C. Collins, B.A. (Pomona), Ph.D. (Georgia)
J.H. Fullard, B.Sc. (Toronto), M.Sc., Ph.D. (Carleton)
D.L. Gibo, B.A. (San Fern.Vall.State Coll.), Ph.D. (California)
G.K. Morris*, B.S.A. (Guelph), M.Sc., Ph.D. (Cornell)
D. O'Day, B.Sc., M.Sc. (U.B.C.), Ph.D. (Delaware)
P.J. Pointing, B.Sc.F., Ph.D. (Toronto)
R.R. Reisz, B.Sc., M.Sc., Ph.D. (McGill)
B.I. Roots, B.Sc., Ph.D., D.Sc. (London)
W.G. Sprules, B.Sc. (Queen's), M.A., Ph.D. (Princeton)
F.M. Szeicz, B.Sc., Ph.D. (London)

Physical Sciences

Astronomy
J.B. Lester, B.A. (Northwestern), M.Sc., Ph.D. (Chicago)
J.R. Percy*, B.Sc., M.A., Ph.D. (Toronto)

Chemistry
J.M. Deckers, L.Sc., Dr.Sc. (Louvain)
U.J. Krull, B.Sc., Ph.D. (Toronto)
M. Moskovits, B.Sc., Ph.D. (Toronto)
A.J. Poë, B.A. B.Sc., M.A. (Oxford), Ph.D., D.Sc., D.I.C. (London), M.I.A. (Cambridge)
J.C. Poë, A.R.C.S., M.Sc., D.I.C. (London)

J.K. Reed, B.A. (Queen's), M.Sc. (U.W.O.), Ph.D. (Wisconsin)
E.A. Robinson, B.Sc., Ph.D., D.Sc. (London)
I.W.J. Still*, B.Sc., Ph.D. (Glasgow)
M.A. Winnik, B.A. (Yale), Ph.D. (Columbia)

Computer Science
A. Fournier, B.S. (Insa-Lyon), M.Sc. (Montreal), Ph.D. (Texas)
G.S. Graham*, B.Sc., M.Sc. (Toronto), M.A. (Princeton), Ph.D. (Purdue)
A.D. Jepson, B.Sc. (U.B.C.), Ph.D. (Caltech)
M.G. Luby, B.S. (M.I.T.), Ph.D. (Berkeley)
C. Rackoff, B.S. M.Sc., Ph.D. (M.I.T.)
J. Sills, B.A. (Waterloo), B.Ed. (Toronto)

Earth and Planetary Science
Emeritus Professor
(Physics, Earth & Planetary Science)
J.T. Wilson, C.C., O.B.E., B.A. (Toronto), M.A. (Cambridge), Ph.D. (Princeton), Sc.D. (Cambridge), D.Sc., D.Univ., L.L.D., F.R.S.C., F.R.S.
Geology & Geophysics
J.B. Currie, B.A. (McMaster), M.A., Ph.D. (Toronto)
J.J. Fawcett, B.Sc., Ph.D. (Manchester)
H.C. Halls, B.Sc. (Sheffield), M.Sc. (Durham), Ph.D. (Toronto)
D.R. Kobluk, B.Sc., M.Sc. (McGill), Ph.D. (McMaster)
B. Murck, Ph.D. (Toronto)
G.W. Pearce*, B.Sc., M.Sc. (Memorial), Ph.D. (Toronto)
P.-Y. F. Robin, M.Sc. (Toronto), Ph.D. (M.I.T.)
R.M. Stesky, B.Sc., M.Sc. (Toronto), Ph.D. (M.I.T.)

Mathematics
J. Alexander, B.Sc., M.Sc. (Kerala), M.A. (York)
S. Ben-David, M.Sc., Ph.D. (Hebrew University, Jerusalem)
S. Boyer, B.A. (U. of New Brunswick), Ph.D. (Cornell)
B. Dekster, M.Sc. (U.S.S.R.), Ph.D. (Leningrad)
P.H.H. Fantham, M.A., D.Phil. (Oxford)
D. Geddes, B.A. (Toronto)
I.R. Graham, B.Sc. (Toronto), Ph.D. (Princeton)
A. Igelfeld, B.Sc. (M.I.T.)
V. Jurdjevic*, B.S. (Penn. State), M.S., Ph.D. (Case Western Reserve)
H. Joshi, M.Sc., Ph.D. (Banaras Hindu University)
J. Kogan, M.Sc., Ph.D. (The Weizmann Institute of Science)
J.E. LeBel, B.Sc. (McGill), M.A., Ph.D. (Toronto)
R.A. Mathon, Dipl. Ing. (Prague), M.Sc., Ph.D. (Toronto)
F.D. Tall, A.B. (Harvard), Ph.D. (Wisconsin)
S. Tanny, B.Sc. (McGill), Ph.D. (M.I.T.)
W.A.R. Weiss, B.Sc. (Saskatchewan), M.Sc., Ph.D. (Toronto)
N. Yui, B.S. (Tsuda College), Ph.D. (Rutgers)

Physics
R.E. Azuma, B.A., M.A. (U.B.C.), Ph.D. (Glasgow)
R.F. Code, B.Sc. (Toronto), A.M., Ph.D. (Harvard)
D.J. Dunlop, M.A., Ph.D. (Toronto)
R.M. Farquhar, B.A., M.A., Ph.D. (Toronto), F.R.S.C.
C.A. Lin, B.S., Ph.D. (Massachusetts Institute of Technology)
G.W.K. Moore, B.Sc. (Guelph), Ph.D. (Princeton)
J.E. Sipe, Sc.B. (Brown), M.A. (Waterloo), Ph.D. (Toronto)
H.W. Taylor*, B.Sc., M.Sc., Ph.D. (Manitoba), C. Phys., F.Inst.P., F.I.Nuc.E.
H.M. Van Driel, B.Sc., M.Sc., Ph.D. (Toronto)
S.S.M. Wong, B.A. (Int'l. Christian Univ., Tokyo), M.S. (Purdue), Ph.D. (Rochester)

Statistics
O. Fraser*, B.Com. (Dalhousie), M.Sc. (Toronto)
J.B. Selliah, B.Sc. (Ceylon), M.S., Ph.D. (Stanford)

Survey Science
Emeritus Professor
L.A. Gale, B.A. (Queen's), D.T.S., C.L.S.

A. Boud, B.Sc., M.Sc., Ph.D. (Manchester)
R.E. Clipsham, B.Sc. (Guelph), P.Eng., O.L.S.
I. de Rijcke, B.Sc. (Toronto), LL.B. (Windsor), O.L.S.
G. Gracie, B.A.Sc. (Toronto), Ph.Eng. (I.T.C.), Ph.D. (Illinois), P.Eng.
R.C. Gunn*, B.A.Sc., M.A.Sc. (Toronto), M.Sc. (Ohio State), P.Eng., O.L.S.
D.C. Kapoor, R. Adm., I.N. (Retd.), B.Sc. (Lawrence College, India)
D.W. Lambden, B.Sc.F. (N.B.), Dip. T.C.P. (Sidney), F.R.I.C.S., F.I.S.Aust., M.N.Z.I.S., C.L.S., O.L.S.
P. Vanicek, Geodetic Engineer (Czech Tech. U. Prague), Ph.D. (Prague)
A.M. Wassef, B.Sc. (Cairo), Ph.D. (London), A.R.I.C.S.
J.K. Young, B.Eng., M.Eng. (N.S.T.C.), P.Eng., C.L.S., O.L.S.

Adjunct Professors
J.D. Crane, Q.C., B.A. (Manitoba), LL.B. (Osgoode)
G.R. Douglas, B.Sc. (Dalhousie), C.L.S.
J.H. O'Donnell, B.A.Sc. (Laval), Q.L.S., O.L.S.
T.C. Seawright, B.A. (W.L.U.), O.L.S.

DIVISION OF SOCIAL SCIENCES

Anthropology

G. Crawford, B.Sc. (Toronto), M.A., Ph.D. (N Carolina)
J. Davies, B.A., M.A., Ph.D. (Toronto)
W. Finlayson, B.A., M.A., Ph.D. (Toronto)
C. Holzberg, B.A. (McGill), M.A. (Iowa), Ph.D. (Boston)
J. Melbye*, B.A. (Washington), M.A. (SUNY), Ph.D. (Toronto)
A. Mohr, A.B. (California), Ph.D. (Wisconsin)
L.R. Reinhardt, B.F.A. (Maryland Inst. of Art), M.A. (Indiana) Ph.D. (S. Illinois)
B.A. Sigmon, B.A. (N. Carolina), M.A., Ph.D. (Wisconsin)
R.M. Vanderburgh, B.A. (Radcliffe), M.A. (Northwestern)

Commerce

V. Aivazian, B.S. (M.I.T.), M.A., Ph.D. (Ohio State)
L.J. Brooks, B.Com., M.B.A. (Toronto), F.C.A.
M.J. Bryant*, B.Com. (Canterbury),M.Com. (Auckland),M.A. (Ohio State), Ph.D. (Cincinnati), A.C.A. (N.Z.)
V. Fortunato, B.Com., M.B.A. (McGill), C.M.A., C.A.
C.E. Dilworth, B.A. (Western) M.B.A. (Toronto), C.A.
B.A. Kalymon, B.Sc. (Toronto), M.Phil., Ph.D. (Yale)
D. Losell, B.A., M.B.A. (Toronto), C.A.
S. Ma, B.A., M.A., Ph.D. (Toronto)
J.A. Sawyer, B.Com., M.A. (Toronto), Ph.D. (Chicago)
W.J. Smieliauskas, B.S., M.S. (Illinois), Ph.D. (Wisconsin), C.P.A.

Special Lecturers

J. Dykopf, B.Com. (Toronto), C.A.
P. Flynn, B.Com. (Toronto), C.A.
G. Gee, B.A. (Toronto), L.L.B. (Osgoode)
P. Harding, B.Com. (Toronto)
F. Judge, B.Com. (Manitoba), M.B.A. (Harvard)
P. Lohnes, B.Com. (McGill), C.A.
M. Murenbeeld, B.Sc., M.Sc. (Alberta), Ph.D. (Berkeley)
R. Parsons, B.Com. (McGill), C.A.
D. Saunders, B.A. (Toronto), C.A.
M. Sklar, B.Com. (Toronto), M.B.A. (Western)
C. Waite-Leonidas, B.A. (Waterloo), L.L.B. (Alberta)
G. Wasylow, B.P.H.E., M.Ed. (Toronto), C.A.

Economics

V. Aivazian, B.S. (M.I.T.), M.A., Ph.D. (Ohio State)
S.M. Eddie, B.Sc. (Minnesota), Ph.D. (M.I.T.)
A. Faroque, M.A., Ph.D. (McMaster)
J.E. Floyd, B.Com. (Saskatchewan), M.A., Ph.D. (Chicago)
M.J. Hare*, B.Com. (Toronto)
A. Hosios, B.Eng. M.Eng., (McGill), M.A., Ph.D. (Princeton)
J.A. Hynes, A.B. (Johns Hopkins)
J.R. Irwin, B.A. (U. Western Ontario), M.A. (Rochester)
A. Melino, B.A. (Toronto), Ph.D. (Harvard)
C. Pitchik, B.A. (McGill), M.Sc., Ph.D. (Toronto)
D. Pokorny, M.A. (Charles), Ph.D. (Czech Academy of Sciences)
S.A. Rea, A.B., Ph.D. (Harvard)
F. Reid, B.A. (U.B.C.), M.Sc. (L.S.E., London), Ph.D. (Queen's)
U. Segal, B.Sc., M.A., Ph.D. (Hebrew University of Jerusalem)
G. Siasor, B.A. (Carleton)
R. Ware, B.A., M.A. (Cambridge), Ph.D. (Queen's)
M. Wooders, B.A. (Edmonton), Ph.D. (Minnesota)

Geography

H.F. Andrews, B.A., M.Sc. (London), D.Phil. (Sussex)B
G.H.K. Gad, Dr.Phil. (Nurnberg), Ph.D. (Toronto)
A.P. Grima, B.A. (Manchester), M.A., Ph.D. (Toronto)
C.J. Houston, B.A., M.A., Ph.D. (Toronto)
A.G. Lewkowicz, B.Sc. (Southampton), M.A., Ph.D. (Ottawa)
S.H. Luk*, B.A., M.Phil. (Hong Kong), Ph.D. (Alberta)
T.F. McIlwraith, B.A., M.A. (Toronto), Ph.D. (Wisconsin)
D.S. Munro, B.Sc., M.Sc. (McGill), Ph.D. (McMaster)B
R.R. White, B.A. (Oxford), M.Sc. (Penn State), Ph.D. (Bristol)

Political Science

J. Barros, A.B., M.I.A., Ph.D. (Columbia)
S.B. Bashevkin, B.A. (Hampshire), M.A. (Michigan), Ph.D. (York)
R.S. Beiner, B.A., M.A. (McGill), D.Phil. (Oxford)
A. Braun*, B.A., M.A. (Toronto), Ph.D. (L.S.E., London)
D.B. Cook, B.A., M.A., Ph.D. (Toronto)
R.B. Day, B.A., M.A., Dip. R.E.E.S. (Toronto), Ph.D. (London)
P.W. Fox, B.A., M.A. (Toronto), Ph.D. (L.S.E., London)
R. Gregor, B.A., M.A. (Toronto), Ph.D. (L.S.E. London)
G. Patrick, B.A., M.A. (Carleton), B.Ed., Ph.D. (Toronto)
J.E. Smith, B.A. (Princeton), Ph.D. (Columbia)
P. Solomon, B.A. (Harvard), M.A., Ph.D. (Columbia)
R. Vipond, B.A., M.A. (Toronto), A.M., Ph.D. (Harvard)
G. White, B.A., (York), M.A., Ph.D. (McMaster)
N. Wiseman, B.A. (Manitoba), M.A., Ph.D. (Toronto)
D.A. Wolfe, B.A., M.A. (Carleton), Ph.D. (Toronto)

Sociology

M. Blute, B.A., M.A., Ph.D. (Toronto)
H. Boughey, B.A. (Columbia), M.A., Ph.D. (Princeton)
D.F. Campbell, B.A. (St. Francis Xavier), M.A., Ph.D. (C.U. of America)
H. Friedmann, A.B. (U. Mich.), M.A., Ph.D. (Harvard)
A.R. Gillis, B.A., M.A. (Dalhousie), Ph.D. (Alberta)B
B.S. Green, B.A. (Brandeis), Ph.D. (York)
W.E. Kalbach*, B.A., M.A., Ph.D. (Washington)
J.B. Kervin, B.A. (U.B.C.), Ph.D. (Johns Hopkins)
C.S. Milner, B.A., M.A. (Wisconsin), Ph.D. (Toronto)
E. Silva, B.A. (S.U.N.Y.), M.A., Ph.D. (Michigan)
J.H. Simpson, B.A. (Seattle Pac. Coll.), B.D., Th.M. (Princeton Th. Sem.), Ph.D. (Stanford)
M.W. Spencer, A.B., M.A., Ph.D. (California)
A.L. Stein, B.A., M.A. (Cal. Berkeley), Ph.D. (Cal. Santa Barbara)

Librarians

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E. Goettler, B.A., M.L.S. (Toronto)
D. Lowe, B.A., M.L.S. (Toronto)
S. McCaskill, B.A. (Manitoba), B.L.S., M.L.S. (Toronto)
J. Seel, B.A., B.L.S., M.L.S. (Toronto)

1 Admission Information

The handbook *A Great Tradition: The University of Toronto* contains complete information on requirements. To obtain this handbook, contact the Office of Admissions, 315 Bloor Street West, Toronto, Ontario, M5S 1A3; telephone 978-2190. The entrance requirements to Erindale are those of the University of Toronto, including the regulations for admission as a non-matriculant.

You may be admitted to the University of Toronto in one of the following ways, depending upon whether you have a sufficiently high standing in your previous academic work:

1. Upon successful completion of the full Ontario Grade 13 programme (or equivalent).
2. With an acceptable degree from a recognized university.
3. With previous degree studies at a recognized university.
4. As a NON-MATRICULANT STUDENT with less than the full admission requirements.

Candidates Applying while Enrolled in Ontario Grade 13

For purposes of admission to the Faculty of Arts and Science, the University has arranged most Grade 13 academic subjects into the following groups:
Group A — English/Anglais
Group B — Languages other than English
Group C — Mathematics: Algebra, Calculus, Relations and Functions, Applied Mathematics, Pure Mathematics
Group D — Sciences: Biology, Chemistry, Ecology, Geology, General Science, Physics
Group E — Other Humanities and Social Sciences: Classical Studies, Dramatic Arts, Economics, Geography, History, Music, Native Studies, other social sciences, Politics, Religion, Screen Education, Visual Arts
Group F — Accounting, Family Studies.

Regulations Concerning Groups A through F
Grade 13 students seeking admission will be expected to present at least six Grade 13 credits or OACs, covering at least three of Groups A through E, and distributed as follows:

a) At least ONE credit from GROUP A;
b) Additional credits chosen from at least two of B through E, including at least ONE credit from either GROUP B or GROUP C. Students wishing to qualify under GROUP C must present at least ONE of Algebra, Calculus or Relations and Functions.
c) No more than three credits in Mathematics or two credits in any other subject.
d) Provided the other regulations in a), b) and c) are met, a Grade 13 student may present ONE credit from GROUP F.

NOTE: The following, Grade 13 subjects will *not* be accepted for admission purposes:
Data Processing
Law
Marketing and Merchandising
Multidisciplinary Studies
Other Arts Studies
Other Business Studies
Physical and Health Education
Secretarial Practice
Technological Studies

Students should choose Grade 13 subjects that fulfill the prerequisites for university courses they intend to take. These prerequisites are listed both at the end of this section and after the description of each course later in the Calendar.

The average required for admission varies from year to year, but will be higher than 65%. In addition, a student's overall academic record may be taken into consideration. Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates will have to offer written evidence of exceptional ability or of extenuating circumstances.

Admission with Transfer Credit
Candidates who have acceptable standing at other universities, or at other Faculties or Schools of this University including Scarborough College, may be considered for admission with transfer credit provided that the content of those studies for which credit is sought is fully equivalent to that of one or more courses offered by the Faculty. The Faculty grants a maximum of five transfer credits for studies for which a previous degree or diploma was conferred, and a maximum of ten transfer credits for studies for which a degree has not been conferred. Note: Regardless of the number of transfer credits granted, at least two of the three 300/400 series courses required for a Three-Year degree, or five of the six 300/400 series courses required for a Four-Year degree must be completed with suitable standing in this Faculty.

Admission as Non-Matriculants
Candidates at least twenty-one years of age who are Canadian citizens or permanent residents of Canada and do not hold the published admission requirements, and who have been resident in Ontario for at least one year, may apply for admission as non-matriculants. They must present proof of age, and must complete, with high standing, at least one of the Pre-University courses offered by Woodsworth College. Two of these courses are offered at Erindale. (Those who have attended a post-secondary institution are not normally eligible for Pre-University courses.) All candidates should consult of the Office of Admissions before enrolling in any Pre-University course.

Admission as Special Students
Special Students are those registered in the College but not proceeding towards a degree offered by the Faculty of Arts and Science. Most are either studying here for credit at another institution or, having completed degree studies elsewhere, are taking further courses for purposes of their own, including admission to graduate studies. Further information concerning the requirements for admission is available from the Office of the Registrar, Room 2122, Telephone 828-5331.

Admission of Senior Citizens
Canadian citizens or permanent residents of Canada who are at least sixty-five years of age by the first day of the term may apply for admission to the College as part-time Special Students. They do not have to meet the academic requirements for admission and, when admitted, will be exempt from the payment of academic fees.

Admission "On Condition"
A. Students who have previously studied in other Faculties or Institutions and who do not meet the Faculty's requirements for admissions may on appeal be admitted subject to the following conditions:
1. Students who obtain a cumulative grade point average (GPA) of less than 1.70 at the end of any session (Summer or Winter), *regardless of the number of courses attempted* will be suspended for one calendar year. On return to the Faculty they will be ON CONDITION FOR A SECOND TIME (see "B" below).
2. At the end of the session in which the fourth course is completed (provided that they have not been suspended under #1 above), students who obtain:
a) a cumulative GPA of 2.00 or more may continue in good standing under the rules for Academic Status (page).
b) a cumulative GPA from 1.70 to 1.99 will be placed ON CONDITION FOR A SECOND TIME (see "B" below).
c) a cumulative GPA of less than 1.70 will be suspended for one calendar year. On return to the Faculty they will be ON CONDITION FOR A SECOND TIME (see "B" below).
B. Students whose status is ON CONDITION FOR A SECOND TIME are subject to the following conditions:
1. Students who obtain a sessional grade point average (GPA) of less than 2.00 at the end of any session (Summer or Winter), regardless of the number of courses attempted will be *refused further registration* in the Faculty.
2. At the end of the session in which the fourth course is completed, (provided that they are not refused further registration under #1 above), students who obtain:

a) a sessional GPA of at least 2.00 and cumulative GPA of at least 1.50 may continue in good standingd under the rules for Academic Status (page).
b) a sessional GPA of at least 2.00 and a cumulatived GPA of less than 1.50 will continue on academic probation (page).
c) a sessional GPA of less than 2.00 will be *refused further registration in the Faculty*.
C. Students who are ON CONDITION or ON CONDITION FOR A SECOND TIME may not apply for a letter of permission or otherwise obtain a Transfer Credit.
APPLICATION SHOULD BE MADE AS EARLY AS POSSIBLE IN THE YEAR FOR WHICH ADMISSION IS SOUGHT. THE FINAL DATES ARE:

For Summer Session 1986	*For Winter Session 1986-87*
First term:	Full-time Studies:
March 15, 1986	June 1, 1986
Second term:	Part-time Studies:
May 15, 1986	First term: June 1, 1986
	Second term: November 15, 1986

Note: Overseas applicants should apply at least six weeks before these dates.

Candidates who use the application forms issued by the Ontario Universities Application Centre are warned that the completed forms must be received by the Centre on or before the dates listed above.

Returning Students
If you are a DEGREE STUDENT in good standing in the Faculty of Arts and Science, you are eligible to follow the Registration Procedures. You do not re-apply for admission.

If you are a SPECIAL STUDENT in Arts and Science who has obtained standing, you are eligible to follow the Registration Procedures. You do not re-apply for admission.

For More Information
Telephone: Office of Admissions
(416)-978-2190
Erindale Campus
(416)-828-5331 or 5217

Secondary School Prerequisites

Area of Study		*Course*	*Grade 13 Prerequisite*
Astronomy	AST120Y	Survey of Astronomy and Astrophysics	Mathematics R & F, Physics
Biology	BIO201H	Diversity of Organisms	
	BIO202H	Cell Biology	
	BIO203H	Introductory Genetics	Biology
	BIO204H	Introduction to Physiology	
	BIO205H	Ecology	
Chemistry	CHM135Y	General Chemistry	Chemistry, Mathematics R & F
	CHM150Y	Basic Concepts of Chemistry	Chemistry, Mathematics R & F or C
Computer Science	CSC108H	Computer Programming	Grade XII Mathematics
	CSC148H	Introduction to Computing	Mathematics R & F and C
	CSC150H	Introduction to Computer Science	Mathematics R & F, C, A
	CSC158H	Computer Applications	Mathematics R & F, and C
Earth & Planetary Science	EPS120H	Planet Earth	Chemistry and Physics
Mathematics	MAT132Y	Calculus	Mathematics R & F and C
	MAT138Y	Calculus	Mathematics A, R & F and C

Physics	PHY120Y	Introductory Physics For Life Science Students	Mathematics. (Physics Recommended)
	PHY132Y	The World of Physics	Mathematics R&F, C,A
	PHY140Y	Principles of Physics	Physics, Mathematics R & F, C and A
Survey Science	SUR201H	Introduction to Surveying	Mathematics A, R & F and C Physics

NOTE: *Languages*: The study of many languages (e.g. French, German, Greek, Italian, Latin, Russian, Spanish) may be begun at the University. Those who have acquired skills in these languages before coming to the University will begin with higher-level courses, and the Departments may assign students t courses appropriate to their level of competence.

Fees Information

Tuition fees are established by the Governing Council and set out in detail in the *Schedule of Fees*. Tuition fees normally consist of two parts: academic fees (including instruction and library) and incidental fees (including Hart House, Health Service, athletics, and student organizations). Additional fees may also be assessed to cover such items as instruments, microscopes, screening charges, field trips and special laboratory charges. Fees are subject to change at any time by approval of the Governing Council.

The following information is intended only as a general guide and may be superseded by that in the *Schedule of Fees*, which should be consulted for accurate, detailed information.

Method of Payment
Payment must be made by *Money Order* or *Certified Cheque* in Canadian funds payable to "The University of Toronto"; all cheques must be *Certified*. Cash is accepted only if payment is made in person at the Fees Department, 215 Huron St., Toronto.
Fee payment may also be made at any branch of the Royal Bank of Canada, Canadian Imperial Bank of Commerce, Toronto Dominion Bank, Bank of Montreal or the Bank of Nova Scotia. Consult the Schedule of Fees for more information.

Payment Deadlines (For the Winter Session)
Fees are due prior to registration and may be paid in full or a minimum payment consisting of 60% of academic fees and 100% of incidental fees may be made as indicated on the Schedule of Fees. All accounts must be paid in full by January 15th.

In order to avoid delays and long line-ups students are advised to pay their fees early by mail or at a bank.

Beginning September 15th all outstanding balances, regardless of the source of payment, are subject to a service charge of 1 1/2% per month compounded (19.56% per annum), which is first assessed on October 15th and calculated on the 15th of each month thereafter until the account is paid in full.

Students who have outstanding accounts may not receive official transcripts or diplomas and may not re-register at the University until these accounts are paid.

Sanctions on Account of Outstanding Obligations
The following are recognized University obligations: (a) tuition fees; (b) academic and other incidental fees; (c) residence fees and charges; (d) library fines; (e) bookstore accounts; (f) loans made by Colleges, the Faculty or the University; (g) Health Service accounts; (h) unreturned or damaged instruments, materials and equipment.

The following academic sanctions will be imposed on Arts and Science students with outstanding University obligations which have been reported to the Faculty in a timely and accurate manner:

1. Official transcripts of record will not be issued;
2. The University will not release either the official document (called the diploma) which declares the degree earned, nor provide oral confirmation or written certification of degree status for external enquirers; and
3. Registration will be refused to continuing or returning students.
   Payments made by continuing or returning students will first be applied to outstanding University debts and then to current fees.

Fees for Foreign Students
In accordance with the recommendations of the Government of Ontario, certain categories of students who are neither Canadian citizens nor permanent residents of Canada are charged academic fees of approximately $4,600.00 per session. Refer to the *Schedule of Fees* for details.

Residence Fees
Residence fees are separate and will be approximately $1,500.00 per annum for townhouse accommodation in 1986-87. Meals may be bought in the College cafeterias or prepared in the townhouse kitchens.

Scholarships, Awards, Financial Assistance

Scholarships are awarded on the basis of academic merit and fall into the following categories, among others:

1) Admission Scholarships
2) In-Course Awards:
   a) Awards of a General Nature (not restricted to any one discipline)
   b) Division of Humanities Awards
   c) Division of Sciences Awards
   d) Division of Social Sciences Awards
   e) University Awards
   f) Faculty of Arts and Science Awards
   g) The Dean's Honour List

The nature of the awards may be monetary, book prizes, medals and in some cases a certificate. Full information on scholarships and other awards is available in the Erindale College *Awards Bulletin*. Copies may be obtained from the Scholarships and Financial Aid Office, Room A3094, South Building (828-5234), and the Registrar's Office, Room 2122, South Building.

Government Financial Aid

The following plans are available to Ontario students who are Canadian citizens or permanent residents:

The Ontario Student Assistance Programme (OSAP)
Canada Student Loans (part-time)
The Ontario Special Bursary Plan

Information concerning the eligibility and assessment criteria may be obtained from the Office of Student Awards, 214 College St., Toronto (586-7950). Application forms are available in Room A3094, Erindale College or from the office of Student Awards.

Students from other Canadian provinces should apply through their provincial financial aid authority.

Bursaries

Supplementary financial assistance is available to students on the basis of financial need. Application forms may be obtained in November from the Scholarships and Financial Aid Office, Room A3094, Erindale College.

Use of Awards to Pay Fees

a) Ontario Student Assistance Programme (OSAP)
Students may pay their fees out of their own funds without jeopardizing their Government assistance. Students wishing to use their Government awards to pay their first term fees should enclose the Notice of Assessment, which they received from the Ministry of Colleges and Universities, with their fees form. Payment of fees will then be deferred until the loan and/or grant is received by the student. Students who have applied for OSAP but have not received their Notice of Assessment by September should contact the Office of Students Awards or the Scholarships and Financial Aid Office at Erindale College to obtain a temporary deferral form.

b) Scholarships and Bursariesa
Students may apply to their fees any scholarships or bursaries paid by or through the University. A cheque for any remaining balance will be mailed to the student by the Fees Department.

2 Student Services

College Registrar
The Registrar's Office is the focal point for information and advice of all kinds and should be consulted whenever the student has questions concerning rules, regulations, degree requirements or problems of a personal or academic nature.
Registrar - Dr. L.T. McCormick, Room 2122, South Building, telephone 828-5244

Academic Counselling
Students who have problems relating to the conduct of courses (lectures, tutorials, evaluation, work-load, etc.) and who find that they cannot resolve these difficulties with the instructor concerned, can obtain advice and assistance either from the Faculty Advisor, or from the Director of Academic Counselling for the College. The Director of Academic Counselling for Erindale is the Registrar, Dr. L.T. McCormick. Students registered in Faculties other than Arts and Science who have problems with the conduct of Arts and Science courses should go for advice either to the departmental Undergraduate Secretary or to the student advisor in the Dean's office of their own Faculty.

Faculty Advisors and Discipline Representatives can give detailed advice on individual courses and programmes that are centred in their Departments. Their names will be found at the beginning of the essay of each discipline in this Calendar. Many disciplines publish brochures or handbooks which are available at their offices. Students may also consult individual instructors.

Teaching - Learning Centre
Located in Room 3094 in the South Building, the Teaching-Learning Centre offers advice about writing, learning and teaching. Hours are Monday - Thursday, 10 - 12 noon, 1 - 3 p.m. during the First and Second Terms. Regular services include:
Writing Laboratory
Individual help and small group seminars on:
- organizing essays
- preparing reports
- avoiding grammatical errors
- improving writing style

Study Skills Seminars
How to manage time, take effective notes, and prepare for and write examinations.

START Seminars
Tips on researching and planning essays and reports. These are held at the beginning of each term in conjunction with the Library.
Teaching Tips
Advice on teaching techniques and on setting assignments.

For an appointment or further information call 828-5444 or visit Room 3094, South Building.

Library
Erindale College Library has an excellent and ever-growing collection of books, periodicals, film strips, cassettes, clippings and other materials now numbering 225,300 items. This extensive library is staffed with people trained to help the student use the Library's resources.
In addition to the College Library, students and faculty have access to more than three million volumes of the University of Toronto Libraries on the St. George Campus. There is a regular book delivery service from the University of Toronto Libraries to the Erindale Campus. Telephone 828-5239.

Career Centre
Career Counselling:
individual counselling appointments to help you with career and job search concerns. Workshops and Seminars are held throughout the year. Resumés/applications critiqued.

Career Information:
a library full of materials on careers, employment opportunities, education. Watch for Career talks in October and January.

Permanent Employment Services
On-Campus Recruitment Programme:
for permanent and summer employment. Representatives from medium to large companies visit the University of Toronto to recruit graduating students and students for summer jobs. Check early in September.
Permanent Employment Service:
lists current permanent job openings available to new graduates.

Summer Employment Services:
begin to receive listings as early as October. Many Government Employment Programmes are advertised through this service.

Part-time Employment Listing Service:
lists part-time jobs available throughout Toronto and Mississauga areas and on the University of Toronto campuses.

St. George Campus	*Erindale Campus*	*Scarborough Campus*
Koffler Centre	South Building	Student Services
215 College St	Room 3094	Room S-302F
(College & St. George)	828-5451	284-3292
586-8000		

University Health Service
The University Health Service offers a comprehensive medical service for students on the Erindale Campus; treatment and advice are available throughout the year. Students are encouraged to discuss concerns about contraception, drug problems, unwanted pregnancies, sexual life and venereal disease.
Psychiatric consultation and counselling to assist students with emotional and social problems are available.
Students seek counselling for a wide range of concerns, including feelings of despondency, apathy, inadequacy or inferiority and with problems in areas of sexuality, drug use, parental conflict, dating, peer relationships, inability to concentrate and examination anxiety.
The primary responsibility of the Health Service is to the student; therefore, all consultations, medical and psychiatric, are strictly confidential and form no part of any "University Record". Information acquired from students will not be given to anyone at any time without the written permission of the student.
Hours
Monday to Friday 9:00 a.m. - 5:00 p.m.
Telephone 828-5255
After 5:00 p.m. - Telephone 596-8030

Athletics and Recreation
The Athletics and Recreation Department and the Erindale College Students Athletic and Recreation Association (ECARA) plan and operate programmes for the Erindale College community and offer instruction, clubs, intramural and interfaculty leagues and college teams. With the exception of ice hockey and rowing, athletic programmes take place in the physical facilities of the University of Toronto. The Erindale Campus facilities include a gymnasium, weight training room, teaching studio, therapy centre, and fitness testing laboratory. Outdoor facilities include playing fields, outdoor swimming pool and six tennis courts. Erindale College teams compete in all University of Toronto interfaculty leagues and with other colleges and universities on an exhibition basis. In addition to the facilities and programmes on the Erindale Campus, students may use the facilities on the St. George Campus, as well as participate in their on-campus and intercollegiate programmes.
For inquiries about the athletic programme, telephone 828-5268/9.

Services to Disabled Persons
A Co-ordinator is available to provide personal support and liaison with academic and administrative departments on campus and with agencies off-campus, and to organize volunteers to assist in various ways.
The University is committed to making a major improvement in the accessibility of buildings, programmes and services over the ten-year period 1981 to 1991.
There are devices to aid print-handicapped

students on all three campuses and personal amplification systems to aid hard-of-hearing students for loan from the Co-ordinator.
The office is located in the Koffler Student Services Centre, 586-8060 (also TDD), but the Co-ordinator can arrange to meet with members of the University at the Erindale and Scarborough campuses, if requested to do so.

Residences
Erindale College offers unique residence accommodation for up to 662 students. Townhouse style residences make it possible for students to share expenses on a co-op basis. Students have estimated they can save up to $500 per year by preparing their own meals. Each house governs itself cooperatively.

Four-person houses have four single study-bedrooms, plus living room, kitchen and dining areas. Six-person units are made up of two single study-bedrooms, two double study-bedrooms, plus communal kitchen and living areas. There are four common laundry facilities.
The College also offers students interested in speaking French on a daily basis the possibility of living in a "French House" with other French students. This is a unique opportunity to experience French culture directly.

Residences are just a few minutes' walk from the library, classrooms, and cafeterias.

Costs are approximately $1,500.00 per year, September to May, 1986-87.

For further information contact the Housing Office, Colman Place, Erindale College, Mississauga Road, Mississauga, Ontario, L5L 1C6 or telephone 828-5286.

Students' Administrative Council (SAC)
The Students' Administrative Council is the central student government for all full-time undergraduates. Members are elected from their local college or faculty.
Office: 12 Hart House Circle - 978-4911.

The Erindale College Student Union (ECSU)
The Erindale College Student Union serves as an important link between students and the administration of the College and University. ECSU sponsors *Radio Erindale*, a newspaper, *Medium II*, various clubs, concerts, lectures, and a pub, *The Blind Duck*.

All undergraduate students of the College are members of ECSU and are entitled to attend meetings, sit on commissions and vote in the general election of officers to the Union. *The ECSU office is open all year*, (828-5249).

The Association of Part-Time Undergraduate Students
The Association of Part-time Undergraduate Students (APUS) represents all part-time undergraduate students at the University of Toronto.

APUS publishes a newsletter *Voice* every two weeks, an annual *Handbook for U of T Part-Time Undergraduates*, and a semi-annual Course Evaluation.
Office Hours

Monday - Thursday	9:00 a.m. - 9:30 p.me
Friday and when classes are not in session	9:00 a.m. - 5:00 p.m.

Office: Room 1089 Sidney Smith Hall, (978-3993).

The Erindale Part-Time Undergraduate Students' Association
EPUS is an independent organization of part-time students at Erindale College. It is funded through the APUS fees paid by Erindale APUS members.

EPUS has a four-person Executive Committee and operates on a class representatives system similar to that of APUS.
Office hours are: Monday - Thursday 1:00 p.m. to 9:00 p.m.
Office: Room 137, North Building (828-5422)

International Student Centre
The International Student Centre provides a meeting place for students from Canada and abroad to come together in organized programmes or informal gatherings in a multicultural setting.
Office: 33 St. George Street (978-2564)

3 Academic Regulations

Degrees

The following degrees are offered by the Faculty:

Degree	Abbreviation	Minimum Number Of Courses
Bachelor of Arts (Three-Year)	*B.A.*	*15*
Bachelor of Arts (Four-Year)	*B.A.*	*20*
Bachelor of Science (Three-Year)	*B.Sc.*	*15*
Bachelor of Science (Four-Year)	*B.Sc.*	*20*
Bachelor of Commerce	*B.Com.*	*23*

Degree Students
Those students registered in the College who are proceeding to the B.A., B.Sc., or B.Com. Degree.

Special Students
Those students registered in the College who are not proceeding to a degree in this Faculty.

Choice of a Degree
A student may choose to have his degree conferred after having completed the requirements for either the three-year or four-year degree. A student who chooses to receive a three-year degree may continue his studies; completion of the four-year degree requirements will be recorded but he will not graduate a second time. A three-year degree leads only to a four-year degree in the same field, i.e. a three-year B.A. leads only to a four-year B.A., etc., though five courses taken towards a degree in one field may, on petition, be counted towards a degree in a different field.

Choosing Courses
1. Each student may plan his own programme, selecting from among all courses offered, subject to the following rules:
   (a) The degree and programme requirements, distribution requirements and other regulations set out in the Calendar and its supplements must be satisfied.
   (b) All prerequisite, corequisite and exclusion requirements must be met.
   (c) No more than six 100 series courses may be taken for degree credit.
2. Each student may proceed towards the degree at a rate of his own choosing, except as provided below:
   (a) A full-time student in the Winter Session normally takes five courses and the maximum is six. Students in the Commerce and Finance Programme normally take five courses in the first Winter Session and six in each succeeding Winter Session.

(b) No student may take more than six courses in any one term in the Winter Session. "A"e and "B" courses count double in computing term course loadse

(c) The maximum in the Summer Session is two courses, with a course load of not moree than 1.5 courses in either term.

Note particularly that the following combinations may not be taken:

2 A courses
2 B courses
1 A and 2 F courses
1 B and 2 S courses

(d)eA full-time student who is on Academice Probation may take no more than five coursese in the Winter Session.

(e) As of the 1985 admissions cycle, part-time students restricted to a reduced course load may take no more than 3.0 courses in the Winter Session; or 2.0 courses in the Summer Session.

3. All courses will be for degree credit unless:

(a) The course is a 100 series course and the maximum number of such courses allowable for degree credit has already been completed, ore

(b) Advance permission has been given by petition for courses to be taken as "extra courses".e

Courses already completed may not be designated as "extra" retroactivelye

4. Students who do not intend to complete a course or courses must notify the Registrar promptly, in writing, before the final date to withdraw. Every year some students obtain a mark of "0" on their record because they did not notify the Registrar of their intention to delete a course.
5. Students may not repeat any course in which they have already obtained standing except for a 100 series course where a specific grade higher than "D" is required for entry to a limited enrolment programme. Under these circumstances a course may be repeated *once* as an "extra" course which will have no effect on the student's status or Grade Point Average. There are no supplemental examinations or provisions to rewrite an examination to "upgrade" a mark.
6. Students who have taken or wish to take courses outside this Faculty should refer to the sections concerning courses of other Divisions and other Universities.

Programmes

All students entering Erindale in or after the Summer Session of 1980 (except students previously registered in the Faculty of Arts and Science) *must enrol* in a Programme or Programmes at the beginning of the session following that in which they *pass their fourth course* for degree credit. If admitted with transfer credit for four courses or more, this must be done immediately on admission. Such students also may (but are not required to) register in one three-course Minor Programme.

Students registered at Erindale before the Summer Session of 1980 may complete a Programme or Programmes, but are not required to do so; if they do so choose, they need not complete the Distribution Requirement.

Students should note that Programme Requirements are separate and distinct from Degree Requirements, and any variation made in Programme details for individual students does not in any way affect the Faculty's Degree Requirements.

Responsibilities of Students

While Departmental counsellors and the Registrar's Office Staff are always available to give advice and guidance, it must be clearly understood that the ultimate responsibility for completeness and correctness of course selection, for compliance with prerequisite, corequisite requirements, etc., for completion of Programme details, for proper selection of Distribution Requirements and for observance of regulations, deadlines, etc., *rests with the student*. It is the student's responsibility to seek guidance from a responsible officer if he is in any doubt; misunderstanding, misapprehension or advice received from another student will not be accepted as cause for dispensation from any regulation, deadline, Programme or degree requirement.

Distribution Requirement

All students entering Erindale in or after the Summer Session of 1980 must complete a full course equivalent in each of the following Divisions:

Humanities	Social Sciences	Natural Sciences
Classics	Anthropology	*Life Sciences*
Drama	Commerce	Biology
English	Economics	Psychology
Fine Art	Geography	
French	Political Science	*Physical Sciences*
German	Sociology	Astronomy
History	WDW103Y	Chemistry
Italian		Computer Science
Linguistics		Earth and
Philosophy		Planetary Science
Religious		Mathematics
Studies		Physics
Spanish		Statistics
INE 112Y		Survey Science

Note: The following courses do not meet distribution requirements: All INE courses (except INE112Y which is a Humanities credit)

The following courses are designated a natural science for distribution purposes only: GGR100Y, AST200H

ANT and GGR courses designated as Natural Science credits for the B.Sc. degree are counted as Science courses for distribution purposes. See page 26 "Courses in Science for B.Sc. Degree".

Courses

The word "course" is used in two senses. In reference to a single course (such as "standing in a course" etc.) the word may be taken to refer equally to a full course or a half course. In reference to a given number of courses (such as the requirement of obtaining standing in at least fifteen courses for a three-year degree) the word refers to a number of full courses or the equivalent number in full and half courses.

To "pass a course" or "obtain standing in a course" normally means to obtain a mark of 50 or more in that course ("Credit" in "Credit/No Credit" courses). Note that a grade of "C-" is required in a certain number of 300 and 400 series courses before a degree may be granted and that "Pass" or "Credit" does not count as a "C" for this purpose.

Prerequisites, Corequisites, etc.

Exclusion: A student may not enrol in a course which is listed as an exclusion to one which he is currently taking or has already passed.
Prerequisite: A course (or other qualification) required as preparation for a course. Students who consider they have equivalent preparation may ask the Department concerned to waive the stated prerequisite.
Corequisite: A requirement to be undertaken concurrently with another course. The corequisite will be waived if a student has previously obtained standing in it or if the Department consents.
Recommended Preparation: Background material or courses which may enhance a student's understanding of a course.

Students are responsible for fulfilling prerequisites and corequisites and for observance of exclusions. Failure to meet these requirements may result in academic difficulties or, in the case of exclusions, refusal of degree credit. If a student withdraws from a course he must also withdraw from any course for which it is a corequisite unless the Department giving the latter course agrees toewaiver of corequisite.

Permission to take Courses on the St. George Campus

With the permission of the Discipline Representative/Associate Chairman, a student may take a course on the St. George Campus, provided that (i) neither the course nor an equivalent course is available at Erindale, and (ii) the following limits are observed: the first five full credits are to be taken on the Erindale Campus, and in each of the second and third sets of five full credits no more than two full courses are to be taken on the St. George Campus. These limits do not apply when more courses than specified have to be taken on the St. George Campus to meet the requirements of a specialist or major programme. Within the limits specified, the Discipline Representative/Associate Chairman may also give

permission for a St. George course when the same course at Erindale is in timetable conflict with a course required for a specialist or major programme and when there is no suitable equivalent course available at Erindale.

Courses of Other Divisions
Certain courses offered in other Faculties and Schools of the University may be appropriate for degree credit for individual students in Arts and Science. After consulting an academic advisor, students should petition through the Office of the Registrar, if possible well before the beginning of the course(s) concerned. Permission to take such courses for degree credit will be granted when the student can establish that his particular aims are valid for an Arts and Science programme but cannot be met by courses offered within the Faculty of Arts and Science. Acceptance of petitions to take graduate courses is further subject to the requirements of the School of Graduate Studies. Special Students may enrol through this Faculty only in courses given by this Faculty or Scarborough College.

Courses of Other Universities (Letters of Permission)
Students who have obtained standing in at least a half-course in this Faculty and who find that they will be living, temporarily, at such a distance from Toronto that it will be impossible to attend classes at the University of Toronto, may request a Letter of Permission to register at another University for a maximum of five courses for which they will receive transfer credit, depending on the number and level of the courses accepted on admission and completed in this Faculty. **NOTE:** only one of the **300/400 series courses** which are required for the degree may be a transfer credit completed outside this Faculty.

Students must be *in good standing* or have a Cumulative Grade Point Average of at least 1.50 in order to obtain a Letter of Permission.

Re-registration in the Faculty
Students previously registered in the Faculty of Arts and Science who wish to return after an absence must submit a Request for Re-registration Form through the Office of the Registrar

(a) if they have not registered in the Faculty in two or more sessions (winter or summer) preceding the session for which they intend to re-register, or
(b) if, whatever the period of absence, they have studied in another Faculty or at another post-secondary institution since last registered in the Faculty of Arts and Science. The eligibility of such students to re-register will be determined on the basis of all previous studies.

For those in (b) above, Requests for Re-registration Forms must be submitted by the following dates:

August 15	Winter Session Term I
December 15	Winter Session Term II
April 1	Summer Session Term I
June 15	Summer Session Term II

Students Restricted to a Reduced Course Load
As of the 1985 admissions cycle, part-time students restricted to a part-time course load on admission may not take more than 3.0 courses in the Winter Session (with a maximum course load of 4.0 in either term), and a maximum of 2.0 courses in the Summer Session. Otherwise, they may proceed at their own rate, and there is no time limit for completion of degree requirements.

If these students wish to transfer to full-time studies, they may do so by applying to the Registrar after the session in which they have completed at least 4 courses in the Faculty with a cumulative Grade Point Average of 2.30. (Transfer credits may not be counted).

Calculating Course Load
For the purpose of calculating course loads, the following table should be used:

Suffix	Load per Session	Load per Term
Y	1	1
H	½	½
A, B	1	2
F, Se	½	1

As explained in the *Course Key* in Section 6, the suffixes, A, B, F, S, appear only in the *Timetable and Registration Information* and relate to the specific scheduling of the courses.

Degree Requirements

In this section the word "course" is taken to mean "full course", i.e. the equivalent of two half courses.

Three-Year Degree (B.A. or B.Sc.)
To qualify for a three-year degree, a student must
(a) Obtain standing in at least 15 courses, no more than six of which are 100 series;
(b) Obtain a grade of C- or better in each of three 300 or 400 series full course equivalents, ("Credit" in a "CR/NCR" ("Pass/Fail") course does not fulfill this requirement), and no more than one transfer credit may be counted);
(c) Complete the requirements of a Major Programme or one three-year Approved Area of Study unless first registered in this Faculty before the Summer Session of 1980.
(d) Obtain a cumulative GPA of 1.50 or more, and
(e) For the B.Sc. degree, take at least six 200 or higher series courses in Science, as defined below, if first registered in this Faculty before the Summer Session of 1980. For students first registered in or after the summer of 1980, the degree will depend on the Programme(s) in which the student graduates.
(f) Complete a full course equivalent from each of the following Divisions: Humanities, Natural Science, Social Science (Not required of students who first registered in this Faculty before the Summer Session of 1980.)

Note: At various stages of the biological science teaching programme there may be occasions when anatomical, biochemical, physiological or pharmacological observations are made by the student on himself or on a fellow-student. These include some diagnostic or immunization procedures in common use. Unless some valid reason exists, students are expected to participate in such exercises.
If any investigative work involving student participation does not form part of the teaching programme, participation is voluntary.

Four-Year Degree (B.A. or B.Sc.)
To qualify for a four-year degree, a student must
(a) Obtain standing in at least 20 courses, no more than six of which are 100 series;
(b) Obtain a grade of C- or better in each of six 300 or 400 series full course equivalents, ("Credit" in a "CR/NCR" ("Pass/Fail") course does not fulfill this requirement), and no more than one transfer credit may be counted);
(c) Complete the requirements of a Specialist Programme or two Major Programmes, or one four-year Approved Area of Study, or two three-year Approved Areas of Study, unless first registered in this Faculty before the Summer Session of 1980.
(d) Obtain a cumulative GPA of 1.50 or more, and
(e) For the B.Sc. degree, take at least nine 200 or higher series courses in Science, as defined below, if first registered in this Faculty before the Summer Session of 1980. For students first registered in or after the Summer Session of 1980, the degree will depend on the Programme(s) in which the student graduates.
(f) Complete a full course equivalent from each of the following Divisions: Humanities, Natural Science, Social Science (not required of students who registered in this Faculty before the Summer Session of 1980).

Note: At various stages of the biological science teaching programme there may be occasions when anatomical, biochemical, physiological or pharmacological observations are made by the student on himself or on a fellow-student. These include some diagnostic or immunization procedures in common use. Unless some valid reason exists, students are expected to participate in such exercises.
If any investigative work involving student participation does not form part of the teaching programme, participation is voluntary.

Courses in Science for the B.Sc. Degree
The following are considered to be courses in Science for the purpose of determining eligibility for the B.Sc. degree: ANT203Y, 228H, 229H, 231H, 328H, 330H, 332Y, 334Y, 336H, 338Y, 339H, 430Y, 433H, 434H; APM; AST (except AST200H); BIO; CHM; CSC; ECO220Y; EPS; GGR201H, 202H, 205H, 206H, 207H, 212H, 214H, 276H, 280H, 300H, 301H, 302H, 303H, 304H, 305H, 307H, 312H, 373H, 374H, 376H, 377H, 379H, 381H, 383H, 491Y; JBG230Y; MAT; PHY; PSY; SOC201Y; STA; SUR (except SUR251H, 352H, 353H, 454H, 455H, 456H, 458H).

Bachelor of Commerce Degree (B.Com.)
The programme in Commerce and Finance begins formally when a student has obtained four credits which include (COM102H,103H)/ (COM102H, CSC108H), ECO100Y and MAT132Y. The cumulative GPA in all courses completed and the marks obtained in COM102H,103H, CSC108H, ECO100Y and MAT132Y may be taken into consideration in admitting students to the Commerce Programme.
To qualify for a Bachelor of Commerce Degree, a student must:
1. Complete the requirements of the Commerce and Finance programme, including no more than six 100 series courses;
2. Obtain a grade of "C-" or higher in each of at least six 300 or 400 series full courses equivalents, ("Credit" in a "CR/NCR" ("Pass/Fail") course does not fulfil this requirement, and no more than one transfer credit may be counted);

3. Obtain a cumulative GPA of 1.50 or more.
4. Complete at least one full course equivalent from each of the following Divisions: Humanities, Science, Social Science.

(Not required of students who first registered in this Faculty before the Summer Session of 1980.)

Recognition of Exceptional Academic Achievement

Faculty Scholar and Dean's Honour List

This designation is given to students in the Faculty of Arts and Science having a cumulative Grade Point average of 3.50 or higher, at the end of each session in which the fifth, tenth, fifteenth and twentieth course has been passed. (For students enrolled in the Commerce and Finance Programme, the designation is given when the fifth, eleventh, seventeenth and twenty-third course is completed.)

A certificate signed by the Dean of the Faculty will be sent to each student.

There is no monetary prize for students named on the Dean's Honour List; however, each student receives a certificate signed by the Principal of Erindale College.

Distinction

Students who graduate with a Cumulative Grade Point average of 3.20 to 3.49 are described as graduates "With Distinction".

High Distinction

Students who graduate with a Cumulative Grade Point average of 3.50 or above are described as graduates "With High Distinction".

This is in addition to the many scholarships and other awards described in a separate publication.

4 General Regulations

Registration refers to the process of establishing membership in the College for the purpose of attending courses and following a Programme of Study.

Enrolment is a separate procedure and refers to a student's formal undertaking to take a specific course or courses. Registration and enrolment procedures are detailed in the *Timetable and Registration Information*.

The last dates for enrolment in and withdrawal from courses are in the "Sessional Dates" at the front of this Calendar and in the *Timetable and Registration Information*. Students whose circumstances are unusual may petition through the Registrar. Permission to register late in the Faculty, and to enrol in courses after the normal date, may be refused at any time.

Any student allowed to register one day after the end of the registration period will be charged a late registration fee; for each day thereafter there is an additional fee.

Students who withdraw from a course or courses before the last date are entitled to a fees adjustment, the amount of which is determined by the date *written notification* of withdrawal is *received* by the Registrar. Every student who is still enrolled in a course after the final date to withdraw will receive a grade for that course, even if he stopped attending classes or did not write the examination. Full information on withdrawal procedures and fees adjustments may be obtained from the Registrar.

Students who find it necessary to withdraw altogether from the University must notify the Registrar before the last day to withdraw listed in the "Sessional Dates". Merely ceasing to attend classes does not constitute withdrawal. Before any refund is authorized, they must:

—Pay any outstanding fees.
—Return any books to the Library and pay any outstanding fines.
—Surrender any Book Store charge cards and pay outstanding accounts.
—Surrender their Student Cards.
—Vacate any laboratory or athletic lockers and return any equipment in their possession.

All newly-admitted degree students are required to write an **English Proficiency Test** at the time of their first registration in the Faculty. Those who fail on the first attempt will be given opportunities to re-write the test for a fee of $10.00. Those who do not pass within twelve months will be expected to arrange with the Registrar for appropriate counselling and assistance. Students who do not pass the English Proficiency Test within twenty-four months of their first registration in the Faculty will be *refused further registration* until such time as they pass the test.

Grades

Term Work
All term work must be *submitted on or before the last day of classes* in the course concerned, unless an earlier date is specified by the instructor. Students who for reasons beyond their control wish to seek an extension of this deadline must consult the Registrar and petition if necessary (see "Special Consideration", page 33).

In order to avoid an undue concentration of work near the end of term, a wise student will organize his time and keep term work up to date throughout the session.

Transfer of Registration Between Colleges
Students who wish to transfer to another College for full-time studies must request a transfer by petition through the Registrar. Last date to submit such a petition is July 1.

Students are assigned a grade in each course as follows:

Percentage	Grade	Value	Grade Definitions
90 – 100	A+	4.3	
85 – 89	A	4.0	Excellent
80 – 84	A–	3.7	
77 – 79	B+	3.3	
73 – 76	B	3.0	Good
70 – 72	B–	2.7	
67 – 69	C+	2.3	
63 – 66	C	2.0	Adequate
60 – 62	C–	1.7	
57 – 59	D+	1.3	
53 – 56e	D	1.0	Marginal
50 – 52	D–	0.7	
Credit/No Credit	CR*	No Value	
35 – 49	E	0.3	Inadequate
0 – 34	F	0.0	Wholly Inadequate
Credit/No Credit	NCR	0.0	No Value

* "Pass" or "Credit" does not count as "C–" for purpose of degree requirements, but transfer credits and Aegrotat standing in 300/400 series courses do count as such.

Grades of "E" and "F" are both *failures*. There are no supplemental examination privileges in the Faculty.

Other notations which do not have grade point values are:

AEG AEGROTAT STANDING — on the basis of term work and medical evidence (Rarely granted). Authorized only by the Committee on Standing by Petition.

SDF STANDING DEFERRED (*Previously SD*) — completion of course delayed for medical or similar reasons. Authorized only by the Committee on Standing by Petition.

WDR LATE WITHDRAWAL (*Previously W*) — without academic penalty*. Authorized only by the Committee on Standing by Petition. *The petition in this case is not for permission to withdraw, but is for removal of the academic penalty in cases where the withdrawal has been caused by circumstances beyond the student's control, arising after the last date for normal withdrawal.

XTR EXTRA COURSE — not for degree credit.

Grading Regulations

The Committee on Academic Standards administers the Grading Regulations and reviews course grades submitted by Departments. The Faculty, through this Committee, is responsible for assigning the official course grades, which are communicated to the students by the Director of Academic Records.

Each Chairman appoints a departmental review committee to review grades submitted by instructors. The committee may ask for clarification of any anomalous results or distributions, or disparity between sections of the same courses. Both the departmental review committee, through the Chairman, and the Faculty review committee, through the Dean, have the right, in consultation with the instructor of the course, to adjust marks where there is an obvious and unexplained discrepancy between the marks submitted and the perceived standards of the Faculty. Final marks are official, and may be communicated to the student only after the review procedure has taken place. Grades, as an expression of the instructor's best judgment of each student's overall performance, will not be determined by any system of quotas.

As early as possible in each course and no later than the last date to add or withdraw from courses, the instructor will announce in a regularly scheduled class the methods by which student performance will be evaluated and their relative weight in the final mark, including any discretionary factor. These methods must be in accord with applicable University and Faculty policies. Once the weight of each component of the course work is given, it may not be changed unless approved by a majority of the students present and voting at a regularly scheduled meeting of the class. After the last date to withdraw from the course without academic penalty, no change in weighting may take place unless there is unanimous consent of all students present and voting, and notice must be given at the regularly scheduled class meeting previous to that at which the issue is to be raised.

All written work which has been evaluated should be returned with such detailed comment as the instructor deems appropriate, and time made available for discussion of it. Unclaimed term work must be kept by the instructor for six months beyond the end of the course. In courses where only one form of evaluation is used, a single piece of work should not normally count for all of the final mark. Self-evaluation and group evaluation, where permitted, must not have a combined weight of more than 50% of the final grade. Group evaluation will be allowed only with the consent of each member of the group and with permission of the Committee on Academic Standards.

Both essays (or equivalent work) and examinations (including term tests) are normally required for standing in courses. No term test having a weight greater than 25% of the final mark may be held in the last two weeks of classes at the end of any term. A Faculty final examination common to all sections of the course and counting for between one-third and two-thirds of the final mark must be held in each 100 series course, unless exemption has been granted by the Committee on Academic Standards. In 200, 300 and 400 series courses, the Departments will decide whether or not an examination is appropriate, and report to the committee. The relative value of each part of a written examination must be indicated on the question paper. The ratio of term marks to examination mark will be the same for all sections of multi-section courses which have final examinations.

Averaging and Status

Grade Point Average

The Grade Point Average (GPA) is the weighted sum of the grade points earned, divided by the number of courses in which grade points were earned. A half-course will carry half the weight of a full course. "No Credit" in a "Credit/No Credit" course will be included. However, courses noted "AEG" or "PASS" or "Credit" are not included in the average, nor are transfer credits, courses taken on a Letter of Permission, or courses designated as "extra".

Two types of averages are used. The sessional GPA is based on the courses taken in a single session (summer or winter) while the cumulative GPA takes into account all courses taken for degree credit in the Faculty beginning with the 1976-77 Winter Session. Both the sessional and cumulative GPA are used at the end of each session (summer or winter) in assessing academic status and in determining the rate of progress toward the degree.

The sessional GPA will be identical to the cumulative GPA for purposes of assessing a student's academic status in the first session (summer or winter) in which that student is subject to the Faculty's GPA regulations.

The computation of an average will be delayed if "Standing Deferred" has been granted in anye coursee

Academic Status

NOTE: Regulations Nos. 1, 2 and 3 apply to both Degree and Special students who have attempted at least four courses in the Faculty.

1. A student shall be *on academic probation* who
   (a) Has a cumulative GPA of less than 1.50 or
   (b) Returns from suspension
2. A student who, at the end of any session (Winter or Summer) during which he is on probation
   (a) Has a cumulative GPA of 1.50 or more shall come off probation
   (b) Has a cumulative GPA of less than 1.50 but a sessional GPA of 1.70 or more shall continue on probation.
   (c) Has a cumulative GPA of less than 1.50 and a sessional GPA of less than 1.70 shall be *suspended for one calendar year* unless he has been suspended previously, in which case he shall be suspended for *three years*.
3. A student who, having been suspended for three years, is again liable for suspension shall be *refused further registration* in the Faculty.
4. A student admitted *on condition* is subject to special conditions until the end of the session in which he completes his fourth course in the Faculty. (See page 14)

NOTE: There are two sessions (Summer and Winter) in each calendar year and status is assessed following each of them.

Students who are neither On Probation, Suspended nor Refused Further Registration are described as *In Good Standing*.

A student's status as established under the regulations in effect before the GPA system was adopted in September 1976 will remain unchanged until he has completed one full session (Summer or Winter) after September 1976, at which time it will be re-assessed in terms of the GPA, provided that at least four courses in total have been attempted.

Courses attempted are those in which a student remains formally enrolled on the last date for withdrawal, unless the academic penalty normally attached to a subsequent withdrawal is removed by petition.

Faculty Final Examinations

Final 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 conflicts.* Information regarding dates and times of examinations will not be given by telephone.
Students taking courses during the day may be required to write evening examinations, and students taking evening courses may be required to write examinations during the day.

Rules for the Conduct of Examinations

1. No person will be allowed in an examination room during an examination except the candidates concerned and those supervising the examination.
2. Candidates must appear at the examination room at least twenty minutes before the commencement of the examination.
3. Candidates shall bring their signed student cards and place them in a conspicuous place on their desks. Candidates registered in the Faculty of Arts and Science must have a student registration card bearing their photograph.
4. Bags and books are to be deposited in areas designated by the Presiding Officer and are not to be taken to the examination desk or table. Students may place their purses on the floor under their chairs.
5. The Chief Presiding Officer has authority to assign seats.
6. Candidates shall not communicate with one another in any manner whatsoever during the examination.
7. No materials shall be brought into the room or used at an examination except those authorized by the Chief Presiding Officer or Examiner.
8. Candidates who bring any unauthorized material into an examination room or who assist, or obtain assistance from other candidates or from any unauthorized source, may not be permitted to write the remaining part of the examination or any subsequent examinations. They are also liable to penalties under the Code of Behaviour, including the loss of academic credit and expulsion.
9. Candidates will not be permitted to enter an examination room later than fifteen minutes after the commencement of the examination, nor to leave except under supervision until at least half an hour after the examination has commenced.
10. In writing out their answers, candidates shall write on the ruled pages only, and shall number their answers to correspond to the questions. On the outside of each book, they shall write their student number, their name unless instructed otherwise, and the course code of the examination and shall number each book, indicating the total number of books used. Rough work may be done on unruled pages. All written work and unused examination answer books must be handed in.
11. Candidates shall remain seated at their desks during the final ten minutes of each examination.
12. At the conclusion of an examination, all writing within the answer books shall cease, and the Chief Presiding Officer may refuse to accept the papers 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 except by authority of the Chief Presiding Officer.
14. Smoking in the examination room is not permitted.

Outside Centre Fee

Each student who is granted permission to write an examination at a centre outside Toronto must submit with his application a fee of $25.00 for each paper to be written. Such permission is granted only in the most extreme circumstances.

Petitions

Students should always consult their College Registrar for guidance if anything happens which interferes with continuing or completing their courses, or which appears to be contrary to rules, regulations and deadlines. Students are responsible for knowing the rules and regulations in the Calendar and its supplements; failure to observe them may result in academic and/or financial penalties. However, if a student has genuine difficulties beyond his control in complying with a particular regulation, he may petition that it be waived or varied.

Petitions are initiated in the Office of the Registrar and are considered in confidence by or on behalf of the Committee on Standing. This Committee is charged with interpreting and administering the regulations of the Faculty and may, in special circumstances, grant exceptions and attach conditions. The onus is on the petitioner to demonstrate the validity of the request; the Committee may refuse any petition by deciding that the grounds advanced do not support the request made. The authority of the Committee does not extend to the pedagogical relationship between instructor and student.

Decisions of the Committee may be appealed to the Academic Appeals Boards of the Faculty and the Governing Council within six months of the date of the decision being appealed. Particulars of this procedure may be obtained from the Office of the Registrar.

Special Consideration

If the ability of a student to complete a course is affected by illness or domestic problems beyond his control, a petition may be made for consideration by the Faculty. If there are adequate grounds for the petition, the Department concerned will determine the status of the work already done and the steps, if any, that must be taken in order to complete the course.

Such petitions must be filed with the Registrar *on or before the last day of the relevant final examination period*, together with a medical certificate which includes a statement that the student was examined at the time of the illness, or other evidence to support the petition. If necessary, the medical certificate or other supporting evidence may follow, but the petition must be submitted before the examination period ends, and late petitions will be rejected. Students will not be excused any part of the work of a course but as a result of the petition may be allowed additional time for its completion, or an alternative examination, etc.

The "official student academic record" is maintained by the Faculty, which shall designate the document, form or medium containing the official version and how official copies of such information will be identified.

Student academic records refer to information concerning admission to, and academic performance at, this University. The "official student academic record" contains:

(i)e Registration and enrolment information.
(ii) Results for each course and academic period
(iii) Narrative evaluations of astudent's academic performance, used to judge the student's progress.
(iv) The basis for a student's admission, such as the application for admission and supporting documents.
(v)e Results of petitions and appeals.
(vi) Medical information relevant to a student's academic performance, furnished at the request or with the consent of the student.
(vii) Letters of reference, whether or not they have been provided on the understanding that they shall be maintained in confidence.
(viii) Personal information such as name, adc ess, telephone number, citizenship, social insurance number.

Access To Student Academic Records

(a)e *Access by a student*: A student may examine and have copies made of his academic record as defined above, with the exception of that portion of the record which deals with his application for admission to the academic division concerned and letters of reference which have been provided on the understanding that they should be maintained in confidence. A student's request to examine any part of his "official student academic record" shall be made in writing and shall be complied with within thirty days of receipt. A student may challenge the accuracy of his academic record with the exception of the materials specifically excluded above and may have his record supplemented with comments so long as the sources of such comments are identified and the official student academic record remains securely within the custody of the academic division. Reference to such comments would not necessarily appear on official academic reports such as the transcript or the Statement of Results.

(Note that access to medical information shall only be granted to members of the teaching and administrative staff with the prior expressed or implied consent of the student and, if applicable, in the case of a medical

assessment, the originator (physician, etc.) of such.)

(b) *Access by University Staff:* Members of the teaching and administrative staff of the University shall have access to relevant portions of a student's academic record in the performance of their duties.

(c) *Access by University of Toronto Campus Organizations:* Student organizations in the University of Toronto may have access to all information available freely to persons outside the university (see d (i) below) and to the residence address and telephone number of the student, for the legitimate internal use of that organization.

(d) Access by others:
(i) By the act of registration, a student gives implicit consent for a minimal amount of information to be made freely available to all inquirers:
—the academic division(s) and the session(s) in which a student is or has been registered,
—degree(s) received and date(s) of convocation.
(ii) Any other information shall be released to other persons and agencies only with the student's prior expressed written consent, or on the presentation of a court order, or in accordance with the requirements of professional licencing or certification bodies, or the Ministry of Colleges and Universities for an annual enrolment audit, or otherwise under compulsion of law. A record shall be kept of permissions granted to any persons or agencies outside the university for access to a student's academic record.
(iii) General statistical material drawn from academic records not disclosing the identities of students may be released for research and informational purposes.

Refusal of Access

The University reserves the right to withhold access to the Statements of Results and transcripts of students who have outstanding debts. The University may also choose not to release the official diploma to such students nor to provide written certifications of degree on their behalf.

Custody Of Student Academic Records

Academic records are normally under the custodial responsibility of the academic divisions. Fifty years after a student has ceased to be registered, all such records become the responsibility of the University Archivist and become open to researchers authorized by the University of Toronto.

Personal Information

Personal information provided at the time of admission is verified and brought up to date by the Office of the Registrar at the time of registration in subsequent sessions. This information is a vital part of the student's official University record and is used to issue Statements of Results, transcripts, graduation information, diplomas and other official documents. The University is also required by law to collect certain information for the Federal and Provincial Governments; this is reported only in aggregate form and is considered confidential by the University.

Any change in the following must therefore be reported immediately to the Office of the Registrar:

1. Legal name
2. Permanent or home address and telephone number
3. Sessional address and telephone number
4. Social Insurance Number
5. Citizenship status in Canada
6. Marital Status

Student Card

The student card is a wallet-sized card bearing the student's photograph, used for identification purposes within the University, such as evidence of registration in the Faculty and in a particular College, participation in student activities, Athletic Association privileges, and identification at Faculty examinations.

The loss of the student card must be reported promptly to the Office of the Registrar, and the card must be surrendered if a student withdraws from the University or transfers to another College or Faculty.

Checking of Marks

a) *Courses with Faculty Final Examinations:* After the issue of final results and within six months of the final examination period, a student may request from the Registrar's Office a reproduction of his final examination for a fee of $10.00. If, upon inspection of this he wishes to have the paper re-read, he must set down his reasons in detail and petition through the Registrar within six months after the final examination period. Such a petition will be granted only when it contains specific instances of disagreement with the existing grading and an indication of the academic grounds for such disagreement. Such grounds must be external to the examination itself. If the mark is changed as a result of this petition, the $10.00 fee will be refunded.

Students should note that when a course is failed, the examination must be re-read before the marks are reported, and instructors

may not subsequently re-read any final examination except on the authority of a petition.

b)a *All courses:*
Within the six month period a student may request a clerical check of the calculationa of the marks in a course, upon payment of a fee of $10.00 per course. If an error isa discovered, the fee for checking that coursea will be refundeda

Note: Students must accept the fact that any re-check or re-reading may lead to a lowering of the mark, to a raising of the mark, or to no change.

Transcripts

The transcript of a student's record reports the standing in all courses attempted, along with course size and course average, information about the student's academic status including record of suspension and refusal of further registration, and completion of degree requirements and of a Programme.

Course results are added to each student's record at the end of the session. Transcripts issued during the second term do not include "A" and "F" courses completed in the first term.

Individual courses from which a student withdraws within the normal time limit are not shown. However, the date of withdrawal from a *session* (i.e. withdrawal from the last course in which a student was enrolled) is recorded. Therefore, when a student taking only a single course withdraws from it, the date is recorded since it constitutes withdrawal from a session.

Copies of the transcript will be issued at the student's request, subject to reasonable notice. Requests should be submitted in person or by writing the Faculty of Arts and Science, Sidney Smith Hall, 100 St. George St., Toronto, M5S 1A1. There is no charge for transcripts issued within the University. A fee of $3.00 for the first copy, plus $1.00 for each additional copy, will be charged for transcripts to all other destinations. Payment *MUST* accompany such requests. Transcripts issued directly to students do not bear the official seal of the Faculty. The Faculty Office cannot be responsible for transcripts lost or delayed in the mail. Transcripts are not issued for students who have outstanding financial obligations with the University.

Office of the University Ombudsman

As part of the University's commitment toœnsuring that, in spite of its size and complexity, the rights of its individual members are protected, a University Ombudsman has been appointed to investigate grievances or complaints against the University, or anyone in the University exercising authority, from any member of the University - student, faculty or administrative staff. The Ombudsman assists in resolving grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, the Ombudsman has access to all relevant files and information, and to all appropriate University officials.

The Ombudsman also provides information to members of the University about their rights and responsibilities, and the procedures to follow in order to pursue whatever business or complaint they may have.

All matters dealt with by the Ombudsman are handled in a strictly confidential manner unless the individual involved approves otherwise. The Ombudsman is independent of all administrative structures of the University, and is accountable only to the Governing Council.

In setting up the Ombudsman's Office, a special effort has been made to ensure that its services are readily accessible to all members of the University. The office is located at 16 Hart House Circle, just south of the SAC building. Members of the University at Erindale and Scarborough Campuses may arrange to meet with the Ombudsman at their respective campuses or at the St. George Campus, whichever is more convenient.

For information, advice or assistance, contact the Office of the University Ombudsman, University of Toronto, 16 Hart House Circle, Toronto, Ontario M5S 1A1. (Telephone 978-4874).

Discipline

Code of Behaviour in Academic Matters
The Governing Council of the University of Toronto has approved a Code of Behaviour regarding academic discipline applying to students and members of the teaching staff of the University. The full text of the Code is available from the Faculty Office and the Office of the Registrar. The Code is enforced by the University Disciplinary Tribunal.

Academic Offences
In order to protect the integrity of the teaching, learning and evaluation processes of the University it shall be an offence for any member, either at the University, at another educational institution or elsewhere,

a) (i) to use or possess unauthorized assistance in any academic examination or term test or to use unauthorized assistance in any other form of academic work;
(ii) to represent as that of the member in any academic work submitted for credit in or admission to a course or programme of study or to fulfill a requirement for any degree, diploma or certificate, any idea or expression of an idea or work of another;
(iii) to submit for credit in any course or programme of study, without the knowledge and approval of the member to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or programme of study in the University or elsewhere;
(iv) to submit for credit in any course or programme of study any academic work containing a purported statement of fact or reference to a source which has been concocted;

b) to forge or in any other way alter or falsify any academic record or to utter or make use of any such forged, altered or falsified record;

c) to remove books or any other library material from a University library without proper authorization, to mutilate library material or misplace it, or in any other way to deprive another member or members of the University of the opportunity to have access to library resources;

d) to make use of a computer for an unauthorized purpose or for any purpose other than that for which the computing access code was granted, or to access, use, alter, modify, read or copy datasets that do not belong to the member or are not intended for the use of the member, or to interfere with the legitimate use of a computer by another member or members, or to make use of an account or access code not legitimately belonging to the member or without the knowledge and permission of a member to whom it legitimately belongs; or

e) to access any University computer systems without proper authorization, to modify, remove, use or prevent access to its programs or datasets, to damage or mutilate a computer, or in any way to deprive another member or members of the University of their opportunity to have legitimate access to computer resources.

Sanctions

1. One or more of the following sanctions may be imposed by the Dean where a student or former student admits to the commission of an offence:
(a) censure;
(b) assignment of a mark of zero or a failure for the piece of academic work in respect of which the offence was committed;
(c) assignment of a penalty in the form of a reduction of the final mark;
(d) denial of privileges to use any facility of the University, including library and computer facilities;
(e) assignment of a mark of zero or a failure for the course in respect of which the offence was committed;
(f) suspension from attendance in a course or courses, a programme, an academic Division or unit, or the University for a period of not more than twelve months.
2. One or more of the following sanctions may be imposed by the Tribunal upon conviction of any student or former student of any offence:
(a) the sanctions enumerated in clause 1 above;
(b) suspension from attendance in a course or courses, a programme, an academic unit or Division, or the University for such period of time up to five years as may be determined by the Tribunal;
(c) assignment of a mark of zero or a failure for any completed course or courses in respect of which any offence was committed or in any course or courses which have not been completed at the time the offence was committed;
(d) recommendation of expulsion from the University;
(e) recommendation for revocation of one or more degrees, diplomas and certificates.
Sanctions 1e through 2e are normally recorded on the transcript for a minimum period of five years.

NOTE: Withdrawal from a course prior to an offence being discovered will not preclude or affect any proceedings at the Departmental or decanal level, or prosecution before the Tribunal. After an offence is alleged, students may not withdraw from a course.

5 Courses and Programmes

Students should note that Programme Requirements are separate and distinct from Degree Requirements, and any variations made in Programme details for individual students do not in any way affect the Faculty's Degree Requirements.
Some Erindale programmes have limited enrolment. Students may not enrol in these programmes until they have received written permission from the Department concerned.

"*COURSES*" = full courses or the equivalent in full and/or half courses.

Animal Behaviour (B.Sc)
(Consult Department of Psychology)

Specialist programme (Interdisciplinary) S24755
10 full courses or an equivalent number of half courses are required in a 4-year programme of 20 courses
PSY100Y
BIO201Y, BIO203H, BIO204H, BIO205H
PSY290Y
BIO304H/PSY390H/PSY399H
BIO318Y
BIO360H, 361H
JBP359Y
BIO404H, BIO442H
PSY400Y/BIO481Y
Other BIOLOGY and PSYCHOLOGY courses of direct interest to students in the Animal Behaviour Specialist Programme include:
BIO235Y, 317Y, 319H, 440Y, PSY252H, 260H, 280Y, 399H
NOTE: Students already enrolled in the Animal Behaviour Programme should contact Prof. T.M. Alloway regarding changes in the Biology portion of their programme.

Anthropology (B.A. or B.Sc., according to selection of courses)

Specialist Programme S17755
9 courses are required in a programme of at least 20 courses
ANT100Y
ANT203Y, 204Y, 201Y/226Y, and at least one of ANT207H/228H/231H,
and either:
a) 41/2 additional ANT courses for B.A.
b) 41/2 additional ANT science courses for B.Sc.

Major programme M17755
6 courses are required in a programme of at least 15 courses
ANT100Y
ANT203Y, 204Y, 201Y/226Y
and either:
a) 2 additional ANT courses for B.A.
b) 2 additional ANT science courses for B.Sc.

Art and Art History
See Fine Art

Astronomy (B.Sc.)

Major Programme M22045
7 courses are required in a programme of at least 15 courses
AST120Y, MAT138Y, PHY140Y
EPS237H, MAT214H and 233H/238Y, PHY231Y
AST422H(G) and any two of AST225H(G), AST210H(G), AST251H, AST423H(G)
(AST225H(G) is strongly recommended)
For the purposes of this major programme, AST321H(G) is considered equivalent to EPS237H

Astronomy and Physics (B.Sc.)

Combined Specialist Programme S02715
16 courses are required in a programme of at least 20 courses
AST120Y, MAT138Y, PHY140Y
AST225H(G), EPS237H, MAT238Y, MAT214H/APM251Y, PHY224H, 231Y, 257H, 258H
APM311H/351Y, MAT334H, PHY351H(G), 352Y(G), 354H(G), 355H(G), 356H(G), AST420Y(G), 422H(G), 423H(G), 425H, one full course chosen from PHY470Y, 471Y, 331H(G), 431H(G), 439H(G), 450H(G), 451H(G), 452H(G), 453H(G), 454H(G), 456H(G), 458H(G), 461H(G), 462Y(G), 466H(G)

Students are urged to satisfy their distribution requirements in their first year.

Biochemistry (B.Sc.)
(Consult Department of Chemistry)

Specialist programme S17625
13 courses required in a programme of at least 20 courses
CHM135Y/150Y, MAT132Y/138Y, PHY120Y/132Y/140Y, BIO202H, 203H/204H
CHM221H, 231H, 240Y
CHM340Y, 347H, 360Y, 371H and one 300 series BIO/CHM/MGB/PSL full course equivalent
BCH471Y(G) and four of BCH421H(G) to 430H(G)/MGB410H, 420H
(CHM447H in the years when BCH424H is not offered)
NOTE(1): The first three years of the Biochemistry Specialist programme can be taken wholly at Erindale but students must take their fourth-year courses on the St. George Campus. Enrolment in BCH471Y (G) is limited.
NOTE(2): In addition to the Year II changes introduced above, further changes in Year III and Year IV may be introduced in 1987-88 and 1988-89, respectively.

Biology (B.Sc.)

Specialist programme S23645
15 courses are required in a programme of at least 20 courses
1. CHM135Y/150Y, MAT132Y/138Y
2. One full course equivalent from the following: PHY132Y/120Y/140Y, (CSC108H/148H and CSC118H/158H), GGR100Y, EPS120Y, PSY100Y
3. BIO201Y, 202H, 203H, 204H, 205H. (A full course equivalent from this group may be taken in the first year)
4. BIO360H
5. 8.5 additional BIO options. It is recommended that students in the Specialist programme include at least one half course from each of the following groups of courses:

Group I *Ecology and Field Biology*		Group II *Biology of Whole Organisms*	
JBG	230Y	BIO	319H
BIO	235Y		335H
	300H		354H
	301H		355H
	302H		356H
	311H		456H
	316H		
	330Y		
	332Y		
	334H		
	417Y		
	430Y		
	433H		
Group III *Genetics*		**Group IV** *Cell Biology*	
BIO	314H	BIO	315H
	375H		352H
	440Y		353H
	442H		370Y
	470Y		371H
			375H
			441Y
Group V *Physiology and Behaviour*			452H
			455H
BIO	304H		471H
	310H		
	312H		
	318Y	**Group VI** *Additional Courses*	
JBP	359Y	BIO	361H
BIO	404H		480H
	420H		481Y
	424H		482H

1) Students wishing to emphasize cell biology, molecular biology, microbiology, physiology or genetics should take CHM 241Y in second year.

2) CHM360Y, JBP359Y, and JBG230Y will be accepted as equivalent to BIO course options. Additional courses in cognate studies such as Computer Science, Physics, Chemistry, Earth and Planetary Sciences, Psychology and Anthropology are recommended as valuable non-Biology options and may also be used as substitutes for not more than two Biology options. Only *one* Anthropology course may be used as a substitute for a Biology option in the Specialist programme. Students should consult with the faculty advisor before registration if they wish to substitute a non-Biology course for a Biology option.

3) Environmentally-oriented students should consider including BIO235Y (Field Biology) in their first year programme.

4) No substitute statistics course will be allowed for BIO360H except under extenuating circumstances.

5) Certain Erindale Biology courses will be treated as equivalent to corresponding St. George campus courses in satisfying requirements for the following St. George specialist programmes: Biology and Mathematics, Biology and Physics, Microbiology, Nutrition and Food Science, Paleontology, Pharmacology and Physiology. Students who intend to begin these programmes at Erindale should consult a Biology advisor as early as possible.

Major Programme M23645
7 courses are required in a programme of at least 15 courses
1. CHM135Y/150Y, MAT132Y/138Y
2. BIO201Y, 202H, 203H, 204H, 205H
3. Two additional full-course equivalents in Biology from the 300 or 400 series

Transitional Requirements for Biology students enrolled before September, 1985

Specialist Programme
The non-Biology science requirement will be the same as in the new Specialist Programme described above, given that it is more flexible than the earlier requirement. Additional requirements are:
1) BIO201Y/one of BIO235Y/251Y/250Y/270Y
2) BIO202H/BIO241Y
3) BIO203H/BIO340Y
4) BIO 204H/one of BIO320Y/321Y/(352H, 353H)/370Y
5) BIO205H/BIO230H
6) BIO360H
7) Students who took BIO100Y may substitute it for one of the five core courses (BIO201Y-205H) to satisfy programme requirements or it may be counted as a Biology option. Students considering which core course they wish to bypass should be aware that BIO100Y will not be an acceptable substitute prerequisite for 300 level courses requiring any of the core courses as preparation. Therefore, bypassing a core course may preclude more advanced work in that subject.
8) Additional BIO courses to a total of 12 full course equivalents, with the same ability to substitute non-BIO courses for BIO options as appears in the new programme requirements.
Students who use Y courses from the old curriculum to satisfy requirements 2-4 above will have fewer additional BIO courses to complete in order to accumulate the 12 full course equivalents required in Biology.

Major Programme
1) Students who have completed all the 200 level requirements in the old programme by September 1985 may complete their programme by taking a full course equivalent in Biology at the 300 or 400 level
2) Non-Biology science requirements will be the same as in the proposed new major programme
3) BIO201Y/one of BIO235Y/250Y/251Y/270Y
4) One full course equivalent from (BIO202H, 205H)/241Y/(230H, 231H)
5) One full course equivalent from (BIO203H, 204H)/BIO320Y/321Y/ 340Y/(352H, 353H)/370Y
6) Two additional full course equivalents in Biology at the 300 or 400 level
7) Students who took BIO100Y may substitute it for one of the five core courses (BIO201Y-205H) to satisfy programme requirements. If BIO100Y is substituted for a half course, an additional half course credit is applied to requirement (6) above. Students considering which core course they wish to bypass should be aware that BIO100Y will not be an acceptable substitute prerequisite for 300 level courses requiring any of the core courses as preparation. Therefore, bypassing a core course may preclude more advanced work in that subject.

Note: Students may also consider an interdisciplinary Specialist or Major Programme in Environmental Science (B.Sc.), offered jointly by Biology and Geography, in the section on Erindale Approved Areas of Study (pp. 56-57).

Chemistry (B.Sc.)

Specialist programme S13765
14 1/2 courses are required in a programme of at least 20 courses
CHM135Y/150Y, MAT132Y/138Y, PHY120Y/132Y/140Y

CHM211H, 221H, 231H, 240Y; one math course (MAT214H + MAT233H)/238Y/239Y/APM251Y
CHM326Y, 330Y, 340Y, 360Y/another Science or Mathematics course
CHM419Y; two additional 400 series CHM full-course equivalents and one additional CHM/MAT/another Science course or equivalent
NOTE(1): Additional 400 series CHM courses available include CHM411H, 412H, 415Y at Erindale, plus the selection of CHM400 series courses at the St. George Campus.
NOTE(2): In addition to the Year II changes introduced above, further changes in Year III and Year IV may be introduced in 1987-88 and 1988-89, respectively.

Major programme M13765
6 1/2 courses are required in a programme of at least 15 courses
CHM135Y/150Y, MAT132Y/138Y, CHM211H, 221H/226Y, 231H, 240Y
Two 300 series CHM full-course equivalents.
NOTE(1): *Limitations on CHM135Y as a prerequisite for certain 200 series CHM courses*
NOTE(2): *MAT prerequisite for CHM326Y*
NOTE(3): *For a balanced training in Chemistry, students should take CHM326Y, 330Y and 340Y*

Chemistry and Biochemistry (B.Sc.)

Specialist programme S12135
15 courses are required in a programme of at least 20 courses
CHM135Y/150Y, MAT132Y/138Y, PHY120Y/132Y/140Y, BIO202H, 203H/204H
CHM211H, 221H, 231H, 240Y; one math course (MAT214H + MAT233H)/MAT238Y/239Y/APM251Y
CHM326Y/330Y, 340Y, 347H, 360Y, 371H
CHM447H(G)/BCH424H(G), one of BCH471Y(G)/CHM419Y, one additional BCH400(G) series half-course, one additional CHM400 series half-course (preferably organic), one additional 400 series BCH or CHM full course (or equivalent)
NOTE(1): Enrolment in BCH471Y(G) is limited
NOTE(2): Additional 400 series CHM courses available include CHM411H, 412H, 415Y at Erindale, plus the selection of CHM 400 series courses at St. George Campus
NOTE(3): In addition to the Year II changes introduced above, further changes in Year III and Year IV may be introduced in 1987-88 and 1988-89, respectively.

Chemistry and Geology (B.Sc.)

Specialist programme S05795
See Geology and Chemistry
The Chemistry and Geology programme is intended for students with a strong chemistry background who wish to undertake graduate work in this area or who may be contemplating professional careers in the oil and mining industries.
15 1/2 courses are required in a programme of at least 20 courses.

Chemistry (Physical) (B.Sc.)

Specialist programme S20985
14 courses are required in a programme of at least 20 courses
CHM150Y, MAT138Y, PHY140Y
CHM221H/226Y, 231H, 240Y
MAT238Y/239Y, APM251Y, PHY231Y, CHM326Y, 330Y/340Y, APM311H/351Y (CHM211H recommended)
11/2 400 series CHM courses, PHY333H, 334H, any other 300 or 400 series CHM course
NOTE(1): 400 series CHM courses available at Erindale include 411H, 412H, 415Y, 419Y
NOTE(2): Choice of fourth-year courses must be approved by the Chemistry Department. The Physical Chemistry programme includes the study of more physics than the Chemistry Specialist programme and is intended for students interested in the more physical areas of chemistry.

Classical Civilization (B.A.)
Consult Department of Classics

Major programme M03825
6 full courses are required in a programme of at least 15 courses, including at least one at the 300 level
1 course from: CLA100Y/105H(G)/200Y(G)/202H/205Y(G)/215H(G)/216H(G)/217H(G)/224H/225H(G)/261Y/300Y/PHL200Y/303H/304H
1 course from: CLA130Y(G)/232H/234H/240Y/241Y/255Y(G)/340Y(G)/345Y(G)/352Y(G)/354Y/355H/360Y(G)/361Y/400Y/401H/NES471Y(G)
1 FAH course in ancient art
3 courses from any of the above groups or any GRK/LAT (except GRK150Y(G)/245Y(G)/250Y(G)/350Y(G)/355Y(G)/450Y(G))
The programme is designed to meet the needs both of students seeking a broad survey of Greek and Roman culture and of specialists in other Humanities subjects who require background knowledge of Classics for their particular interests, whether literary, historical or philosophical.

Classics
See Greek and Roman History

Commerce

Commerce and Finance **(B.Com.)** S22735
(Limited enrolment)
Specialist programme (This programme leads to the Bachelor of Commerce degree, and requires 15.5 courses in a total of 23)

First Year: (COM102H, 103H)/(COM102H, CSC108H), ECO100Y, MAT132Y
Students must take at least four courses including the above before they are considered for enrolment in the Programme. Students choosing a concentration in Accounting must take COM102H, 103H in First Year. Students not choosing a concentration in Accounting may take either (COM102H, COM103H) or (COM102H, CSC108H). Marks in COM102H, 103H, CSC108H, ECO100Y and MAT132Y and the cumulative GPA may be considered in selection.

Higher Years:
1. ECO200Y/206Y; 202Y/208Y; 220Y/227Y/STA242Y/262Y; ECO203Y/221Y/222Y/322Y; (311H, 366H); (325H, 326H); (364H, 365H)/COM325Y
   1 additional 300+ series ECO course
2. COM220Y, 337Y
3. Students may choose one of the four areas of concentration listed below.

   a) *ACCOUNTING*
      i. COM320Yo
      ii. At least one of COM420Y, 423Y
      iii. At least two of COM426H, 428H, 430Ho

   b)o*ADMINISTRATION*
      i. COM205Ho
      ii. At least two of COM341H, 342H, 443H
      iii. POL207Y/COM301Yo

   c)o*FINANCE*
      i. COM205H
      ii. At least three of COM324H, 424H, 438H, 439H

   d) *MARKETINGe*
      i. COM205Ho
      ii. COM350Y, 410H, 435Ho

4. Additional COM courses so that the total number of COM courses is at least 7 and the total number of courses is 15.5. CSC108H and POL207Y/POL307Y may be counted as COM courses.

3.0 *Full course equivalents* other than Commerce and Economics
At least one of these must be a humanities course
4.5 *Full course equivalents* from any discipline including Commerce and Economics

NOTES:
1. *The programme requirements in effect at the time the Student is admitted to the programme must be met in order to fulfill the degree requirements.*
2. *Students are advised to complete five courses in first year. It should be noted that six courses should be completed in each of the subsequent years.*
3. *Students interested in combining a B.Com. degree with an Economics Specialist Programme should refer to the appropriate Programme ofe Study for details.*

Major programme **(B.A.)** M11115
(Limited enrolment)
The programme leads to the Bachelor of Arts degree and requires 7 courses in a total of 15.
First Year: (COM102H, 103H)/(COM102H, CSC108H), ECO100Y, MAT 132Y
Students must take at least 4 courses including the ones listed above before being considered for enrolment in the programme. Marks in COM102H, 103H, CSC108H, ECO100Y, and MAT132Y and the cumulative GPA may be taken into consideration in selection.

Higher Years:
1. ECO220Y/227Y/STA242Y/262Y
2. COM204H/220Y, 331Y/337Y, 349H/350Y, 341H/342H/WDW103Y
3. Other COM courses, if necessary, so that the total number of courses is 7. PHL/PHI295H may be counted as a COM course.

NOTES:
1. *The programme requirements in effect at the time the Student is admitted to the programme must be met in order to fulfill the degree requirements.*

Communications
See Sociology

Computer Science (B.Sc.)

Specialist programme S16885
(Limited enrolment) 10 1/2 courses are required in a programme of at least 20 courses
CSC148H/150H, 158H/160H, MAT138Y, CSC228H, 238H, 258H, MAT228H, 238Y
CSC324H, 351H, 364H, 378H, MAT334H/315H(G)344H(G), STA262Y
Any one of CSC350H(G)/446H(G)
Any one of CSC438H(G), 448H(G), 465H(G), 478H(G)
Two half-courses from the following, of which at least one half-course should be taken from Group I
Group I: CSC418H(G), 428H(G), 434H(G), 458H(G), 468H(G), 484H(G), 488H(G)

Group II: CSC340H(G), 354H(G), 372H(G), 444H(G), ELE385H(G)
Recommended option: MAT104H
NOTE: Students are advised to arrange their programme so as to complete the requirements for the Major in Computer Science by the end of the third year.

Major programme M16885
(Limited enrolment)
6 1/2 courses are required in a programme of at least 15 courses
CSC148H/150H, 158H/160H, MAT132Y/138Y
CSC228H, 258H, MAT228H
6 CSC half-courses from the following:
At least two of CSC324H, 340H(G), 354H(G), 372H(G), 378H, 418H(G), 428H(G), 434H(G), 444H(G), 458H(G), 468H(G), 464H(G), 488H, ELE385H(G)
At least two of CSC238H, 350H(G), 351H, 364H, 438H(G), 446H(G), 448H(G), 465H(G), 478H(G)
The additional two half-courses may be taken from any of the two categories above, or any of CSC300H(G), 318H(G), ECO206Y/208Y (which counts as one half-course)

Minor programme R16885
3 courses are required
CSC148H/150H, 158H/160H, MAT132Y/138Y, and any two of CSC228H, 238H, 258H

Computer Science for Data Management (B.Sc.)

Specialist programme S19225
(Limited enrolment)
13 courses are required in a programme of at least 20 courses
CSC148H/150H, 158H/160H,
ECO100Y, MAT132Y/138Y
CSC228H, 238H, 258H, COM102H, ECO206Y/208Y, MAT234Y
CSC324H, 350H(G)/351H, 364H, 378H, COM220Y, MAT228H, STA262Y
CSC434H(G)
Any two of CSC340H(G), 354H(G), 372H(G), 418H(G), 428H(G), 444H(G), 458H(G), 468H(G), 484H(G), 488H, ELE385H(G)
NOTE: Students should arrange their programme so as to complete the requirements for the Major in Computer Science by the end of the third year.

Drama (B.A.)

Major programme M21485
6 courses are required in a programme of at least 15 courses
These courses must be chosen from the following groups:

Theatre History and Theory
DRM120Y, 390Y

Theatre Practice
DRM200Y, 300Y, 390Y

Dramatic Literature
CLA300Y
ENG212Y, 235H, 254H, 332Y, 338Y
FRE254H, 358Y
GER421Y, ITA272H, SPA343H, 348Y

Minor Programme
3 courses are required a a programme of at least 15 courses
DRM120Y, 200Y
One course in Dramatic Literature

Earth and Planetary Science

For Specialist Programmes See
Geology
Geology and Chemistry
Geology and Physics

Economics (B.A., B.Com.)

Specialist programmes

NOTE: Programme (a) leads to the B.A. degree. Programme (b) can *only* be taken conjointly with a specialist programme in Commerce and Finance (see p. 41), and thus leads to a B.Com. degree. Enrolment in Programme (b) is thus open *only* to those who have been admitted to the B.Com. degree programme.

(a) *Economics Specialist programme* S14785
NOTE: Enrolment in this programme is limited to students with 70% in ECO100Y and (60% in MAT132Y or 55% in MAT138Y) or 65% in ECO100Y and (65% in MAT132Y or 60% in MAT138Y).
13 courses are required in a programme of 20 courses
First Year: ECO100Y, MAT132Y/138Y
1. ECO206Y, 208Y, 227Y/STA262Y, ECO322Y, 325H, 326H, 327Y
2. ECO203Y/221Y/222Y
3. Four additional ECO courses, including three 300 series courses and one 400 series course
4. Students are strongly advised to take ENG100Y before completing 15 courses

Major programme M14785
NOTE: Enrolment in this programme is limited to students who have 60% in ECO100Y or who have passed ECO100Y and have a cumulative GPA of 2.50.
7 courses are required in a programme of 15 courses
ECO100Y, 200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y, MAT132Y/138Y
Two other ECO courses, at least one of which is at the 300 level

Minor programme R14785
Note: Enrolment in this programme is limited to students who have 60% in ECO100Y or if cumulative GPA is 2.50
3 courses are required
ECO100Y
Two other ECO courses

(b)r*Specialist Programme: Economics (Commerce and Finance*) S10375n
This programme can only be taken conjointly withn the specialist programme in Commerce andn Finance (see p. 41), and thus leads to a B.Comn degree. Students must be accepted in the Commerce and Finance (B.Com.) Programme to register in the Economics (Commerce and Finance) programme.
NOTE: Enrolment in this programme is limited asn followsn
70% in ECO100Y *and* (60% in MAT132Y or 55% inn MAT138Y) *and* C in COM102H *and* a minimumn cumulative GPA.
OR
65% in ECO100Y *and* (65% in MAT132Y or 60% in MAT138Y) *and* C in COM102H *and* a minimum cumulative GPA.

16 courses in a programme of 23 courses
First Year: ECO100Y, COM102H, 103H/CSC108H, MAT132Y/138Y

Higher Years:
1. ECO206Y, 208Y, 227Y/STA262Y, COM220Y
2. rCOM337Y, COM205H if COM103H is not takenn ECO325H, 326H/COM325Y, ECO327Yn
3. ECO203Y/221Y/222Y/322Y
4. Any additional 300 level or 400 level ECO course
5. Four additional COM courses chosen from: COM300Y, 324H, 325Y, 341H, 342H, 350Y, 405H, 422H, 423Y, 424H, 435H, 438H, 439H
6. At least one ECO or COM course of the above must be a 400 level course

Major programme: Economics (Commerce and Finance)
Completion of the Commerce and Finance (B.Com.) Specialist Programme by itself fulfills the requirements of the Economics major programme.

Economics and History (B.A.)
Consult Professor S.M. Eddie, Department of Economics, Erindale

Combined Specialist programme S0672
Note: Enrolment in this programme is limited to students withr60% in ECO100Y or who have passed ECO100Y and have a cumulative GPA of 2.50.
15 courses are required in a programme of at least 20 courses

Economics
ECO100Y, 200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y, MAT132Y/138Y
Two of ECO203Y, 221Y/222Y, 302Y, 305Y/455Y, 342Y, 452Y, 453Y, 457Y

One additional ECO course

History
Seven courses, including: one course before 1815, two courses in one area at 300/400 level, two corresponding in area and time or in theme to two of the "non-core" courses in Economics or Economic History
Note: Either the Economics component, or the History component must be completed within the first 15 courses taken at the university.

Economics and Philosophy (B.A.)

Combined Specialist programme S11835
Note: Enrolment in this programme is limited to students with 60% in ECO100Y or who have passed ECO100Y and have a cumulative GPA of at least 2.50.
15 courses are required in a programme of at least 20 courses

Economics
ECO100Y, 200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y, ECO322Y, MAT132Y/138Y
Two other ECO courses

Philosophy
7 PHL courses, 5 to be chosen from subject areas specified in Philosophy Specialist, including at least 2 at 300 or 400 level
The subject areas are:
History of Philosophy
Logic
Epistemology/Metaphysics
Ethics/Social and Political/Individual Studies

Economics and Political Science (B.A.)

Combined Specialist programme S07515
Note: Enrolment in this programme is limited to students with 60% in ECO100Y or who have passed ECO100Y and have a cumulative GPA of at least 2.50.
8 Economics (and Mathematics) courses and 7 Political Science courses are required in a programme of at least 20 courses
The following courses must be included in the programme:

Economics
ECO100Y, 200Y/206Y, 202Y/208Y, 203Y/221Y/222Y, 220Y/227Y/STA242Y/262Y, ECO322Y, MAT132Y/138Y
One additional course in Economics

Political Science
7 courses in Political Science, at least 5 from the 200 or higher series
One full course in Canadian Government
POL200Y, 309Y

One full course (or the equivalent) from two of the following four fields:
Comparative Politics (Industrial Countries)
Comparative Politics (Developing Countries)
International Relations
Political Behaviour
Two additional full courses (or the equivalent) in Political Science

English (B.A.)
See Modern Languages and Literatures

Specialist programme S16455
At least 10 and not more than 15 courses in English are required in a programme of at least 20 courses
The ten courses in a basic English programme should be selected according to the following distribution of courses:
a) four courses before 1800, to be chosen from ENG200Y, 206Y, 212Y, 300Y, 302Y, 304Y, 306Y, 312Y, 322Y, 332Y, 404Y, 413Y, 415Y
b) three courses after 1800, to be chosen from ENG207Y, 250Y, 252Y, (254H & 357H), 256Y, 308Y, 317Y, 318Y, 319Y, 324Y, 328Y, 338Y, 346Y, 348Y, 354Y, 368Y, 417Y, 419Y, 451Y, 454Y
c) one 400 series course, which may count as part of the categories (a) or (b), and
d) any other two or three courses offered by the Department of English
Note: Only one 100 series course may count towards the Specialist programme.

Major programme M16455
7 full course equivalents are required in a programme of at least 15 courses
The following courses are required:
At least one course from group a (pre-1800) listed under the Specialist programme
At least one course from group b (post-1800)
Any other 5 ENG courses (including any listed above)
Note: Only one 100 series course may count towards the Major programme.

Minor programme R16455
3 full course equivalents in English, in a programme of at least 15 courses, but only one 100 series English course

English and History (B.A.)

Combined Specialist Programme S04775
14 full course equivalents in a programme of at least 20 courses
At least 6 and not more than 8 full course equivalents in English, at least one from group a (pre-1800) of the English Specialist programme, at least 1 from group b (post-1800), and any other 4 ENG courses, but only one 100 series ENG course
At least 6 and not more than 8 courses in History, in at least two areas and including:
a) one course before 1815
b) two 300/400 level courses in British History
c) two courses which correspond in area and period or in theme to two of the period or national literature courses in English

One course will be a senior essay (either ENG469Y or HIS 497Y) in the Fourth Year of study on a topic chosen by the student and written under the supervision of the Department of English or History. Students in the programme are required to confirm their programme annually with the Faculty Advisor during the registration period.

English and Philosophy (B.A.)

Specialist programme S25585
14 full course equivalents are required in a programme of at least 20 courses.
At least 6 and not more than 8 full course equivalents in English, at least 1 from group a (pre-1800) of the English Specialist programme, 1 from group b (post-1800), and any other 4 ENG courses, but only one 100 series ENG course.
The equivalent of 6 or 7 full PHL courses, at least three of them above the 200 level.

Fine Art (History of Art) (B.A.)

Specialist programme S09085
11 courses are required in a programme of at least 20 courses
At least 9 Art History courses (including core surveys FAH101Y, 102Y, 200Y, 210Y, 211H, plus at least 3 full courses at the 300 or 400 level) and two courses in a modern language or languages other than English. No more than a total of 13 FAH and FAS full courses may be taken.
In designing a curriculum students are advised to note the prerequisites and corequisites of many FAH courses. The following progression of courses is strongly recommended:
First year: FAH101Y, 102Y, one language course
Second year: FAH200Y, other FAH200/300 level courses, one language course
Third year: FAH210Y, 211H and further courses chosen preferably from the FAH300 and 400 levels

Fourth year: Further FAH courses chosen preferably from the FAH 300 and 400 levels
NOTE: FAH211H, 265H, 338H, 377H, 402H are offered by St. George Campus Staff in alternate years at Erindale.

NOTES:
1. Courses in other departments, especially East-Asian Studies, Near Eastern Studies, Middle East and Islamic Studies, may be substituted for up to two full FAH courses with permission of the Undergraduate Secretary.
2. It is strongly recommended that students acquire a reading knowledge of at least one ofs French, German, or Italian by the end of seconds years
3. With the permission of the Undergraduate Secretary, students may include up to the equivalent of two full courses from FAH202Y, 256H, 258H, 265H.s
4. Though not required, one or more studio courses are recommended. FAS330Y *Past and Present Techniques* is open to History of Art Majors ands Specialists; see Section 6s
5. Course selections beyond the level of the core surveys should be made from at least two of the periods designated as Ancient, Mediaeval,s Renaissance-Baroque, and Moderns
6. Students who wish to complete their programmes at the St. George Campus must apply tos the Department of Fine Art, where each application will be judged on an individual basis.

Major programme M09085
6 courses are required in a programme of at least 15 courses.
6 FAH courses of which at least 3 must be selected from the core surveys (see Specialist programme) and an additional 2 from the FAH300 or 400 level courses.
Up to one full course may be taken in other departments (see Specialist Note 1). No more than a combination of 10 FAH and FAS full courses may be taken of which no more than a total of 8 may be FAH.

Minor programme R09085
3 courses from the core surveys.

Art and Art History (B.A.)

Specialist programme S07145
At least 7 full course equivalent FAS courses and 4 full course equivalent FAH courses are required in a programme of at least 20 courses. Two of the FAH courses must be from the core surveys (see Fine Art History - Specialist programme).
The following courses comprise the FAS requirements:
FAS143H, 145H, 146H, 147H
FAS232H*, 245H, 246H, 248H
3 full courses (or their equivalents) from the 300 or 400 series must include 1 full course from the 400 level

NOTES:
1. In order to be eligible for enrolment in a FAS course, students must apply and register in person at Sheridan College, Oakville Campus.
2. Enrolment is limited in all studio courses and balloting is mandatory and should be completed on forms available from the Fine Art Office, Erindale or Registrar's Office, Sheridan.
3. *FAS 232H is open to first year students.

Major programme M07145
At least 4 full course equivalent FAS courses and at least 3 full course equivalent FAH courses are required in a programme of at least 15 courses. The 3 FAH courses must be from the core surveys (see Fine Art History - Specialist programme)

The following courses comprise the FAS requirements.
FAS143H, 145H, 146H, 147H
FAS232H*, 245H, 246H, 248H

NOTES:
1. In order to be eligible for enrolment in a FAS course, students must apply and register in person at Sheridan College, Oakville Campus.
2. Enrolment is limited in all studio courses and balloting is mandatory and should be completed on forms available from the Fine Art Office, Erindale or Registrar's Office, Sheridan.
3. *FAS 232H is open to first year students.

French Language and Literature (B.A.)
(For students who enter the university commencing in September 1985. Students who began earlier may choose the former Specialist Programme in Language and Literature, or the new one. See departmental brochure for full details.)

Specialist Programme S12955
10 courses, including at least 4 300+ series courses and at least one 400 series course
First year: FRE150Y/161Y/171Y (no more than 1 may count towards specialization)
Higher Years:
1. FRE240Y
2. FRE271Y, FRE371Y. Students completing FRE 271Y with a sufficiently high mark (see departmental brochure for details) may substitute for FRE 371Y a course from Groups B, C, or D.
3. Additional courses to a total of 10 from Groups A, B, C, D, below, including at least 1 course from each group;

4 courses must be in literature, 2 in linguistics2
NOTE: Only 3 full course equivalents from among FRE161Y, 171Y, 271Y, 301H, 371Y, plus 2 further Special Seminars or approved non-FRE courses may be included. The following may NOT be included: FRE101Y, 121Y, 177H, 261Y, 361Y, 461Y.

Major programme M12955
7 courses, including at least 1 300+ series course
First year: FRE150Y/161Y/171Y (No more than 1 may count towards a major)
Higher years:
1. FRE240Y, 271Y
2. At least 1 course from Group A (below)
3. At least 3 courses from Groups B, C, D (below)
See also NOTE in Specialist programme

French Language and Linguistics (B.A.)

Major programme M14895
7 courses, including at least 1 300+ series course
First year: FRE150Y/161Y/171Y (No more than 1 may count towards a major)
Higher years:
1. FRE271Y
2. At least 4 courses from Group A (below)
3. At least 1 course from Groups B, C, D (below)
NOTE: Only 2 courses from FRE161Y, 171Y, 271Y, 301H, 371Y, and 2 Special Seminars or approved non-FRE courses may be included. Only 1 of the following may be counted as a linguistics course: FRE470Y, 475Y, 480Y, 481Y. The following courses may not be included: FRE101Y, 121Y, 177H, 261Y, 361Y, 461Y.

Group A (French Linguistics): FRE272Y, 273Y, 375Y, 376H, 378H, 475Y, or Independent Study or other approved course in the area
NOTE: 1 translation course, FRE475Y, may count in the French Language and Linguistics programmes
Group B (Literature until 1800): FRE220Y, 322Y, or Independent Study or other approved course in the area
Group C (Literature after 1800): FRE224Y, 225H, 256H, 358Y, 364Y, 426Y, or Independent Study or other approved course in the area
Group D (Québec Literature): FRE210Y, 310Y, or Independent Study or other approved course in the area

Minor programme in French Studies R21565
Any 3 full-course equivalents in FRE

Geography (B.A. or B.Sc.*)

Specialist programme S16665
9 full course equivalent GGR courses in a programme of at least 20 full courses, including:
a) all of GGR202H, 207H, 212H, 276H, 280H, 300H, 381H, 491Y
b) any other 4 1/2 full course equivalents from GGR

Major programme M16665
6 full course equivalent GGR courses in a programme of at least 15 full courses
a) 1 full course equivalent from GGR202H, 207H, 212H, 276H, 280H, 300H, 381H
b) Any other 5 full course equivalents from GGR

Environmental Management (B.A. or B.Sc.*)

Specialist programme S14255
9 courses are required in a programme of at least 20 courses, including:
1 full course from GGR100Y, 131Y, 245Y
All of JBG230Y, GGR233Y, 202H, 212H, 381H, 491Y
1 half course from GGR207H, 280H, 300H
1 full course equivalent from: GGR201H, 205H, 206H, 214H, 301H, 302H, 304H, 307H, 312H, 316H, 374H, 376H, 377H, 379H
1 1/2 full course equivalents from: GGR220Y, 255H, 330Y, 333H, 334H, 335H, 353H

Major programme M14255
6 courses are required in a programme of at least 15 full courses, including:
GGR100Y/131Y/245Y
All of GGR233Y, JBG230Y
1 full course equivalent from: GGR202H, 207H, 212H, 276H, 280H, 300H, 381H
1 full course equivalent from: GGR201H, 205H, 206H, 214H, 301H, 302H, 304H, 307H, 312H, 316H, 374H, 376H, 377H
1 full course equivalent from: GGR220Y, 255H, 330Y, 333H, 334H, 335H, 353H
NOTE: *For the B.Sc. degree, at least six 200 level or higher courses in Science for a major, nine 200 level or higher Science courses for a specialist.

Historical and Cultural Geography (B.A.)

Major programme M25525
6 courses are required in a programme of at least 15 full courses, including:
GGR131Y
1 full course equivalent from GGR245Y, 253Y, 255H, 364H
1 full course equivalent from GGR207H, 280H, 300H, 381H
3 full course equivalents from GGR263H, 344Y, 349H, 353H, 361Y, 363H, 389H, 491Y

History and Geography (B.A.)

Specialist programme S24085
14 courses are required in a programme of at least 20 courses. Students are required:
1. To take fourteen courses in Geography and History
   (a) 7 courses in Geography, including the core courses GGR202H, 207H, 212H, 276H, 280H, 300H, 381H, 491Y and four other courses in Geography (Upon consultation with the faculty adviser HIS401Y/403Y may be substituted for GGR491Y)
   (b) 7 courses in History in at least two areas, including
   (i) One course before 1815
   (ii) Two 300/400 level courses in one area
   (iii) Two courses which correspond in area and time period or in theme to two of the non-core courses in Geography
2. To confirm their programmes in this double specialization annually with the faculty adviser during the registration period

Major programme M24085
7 courses are required in a programme of at least 15 courses
A. *GEOGRAPHY*:
   GGR131Y
   At least one half course from: GGR202H, 207H, 212H, 276H, 280H, 300H, 301H, 491Y
   At least 1 1/2 courses from: GGR245Y, 253Y, 255H, 263H, 344Y, 346H, 353H, 361Y, 363H, 364H, 389H
B. *HISTORY*:
   One course before 1815
   Two 300/400 level courses (or equivalent) of which at least one half course must correspond in area and time or in theme to one half course in Geography
C. Additional GGR and HIS courses to a total of 7

Physical Geography (B.Sc.)

Specialist programme S15785
12 courses are required in a programme of at least 20 full courses, including:
1 full course from GGR100Y, JBG230Y (GGR100Y recommended)
All of GGR202H, 207H, 212H, 276H, 280H, 300H, 381H, 491Y, MAT132Y (5 1/2 full course equivalents)
1 1/2 full course equivalents from GGR201H, 205H, 206H, 214H
2 full course equivalents from GGR301H, 302H, 304H, 307H, 312H, 316H, 335H, 374H, 376H, 377H, 379H
2 full course equivalents from BIO, CHM, EPS, PHY

Major programme M15785
6 courses are required in a programme of at least 15 full courses, including:
1 full course from GGR100Y, JBG230Y(GGR100Y recommended)
1 1/2 full course equivalents from GGR202H, 207H, 212H, 276H, 280H, 300H, 381H
1 1/2 full course equivalents from GGR201H, 205H, 206H, 214H
2 full course equivalents from GGR301H, 302H, 304H, 307H, 312H, 316H, 335H, 374H, 376H, 377H, 379H

Urban and Economic Geography (B.A.)

Specialist programme S24215
9 full course equivalents are required in a programme of at least 20 full courses, including:
1 full course from GGR100Y, 131Y, 245Y, JBG230Y (GGR245Y recommended)
All of GGR202H, 212H, 220Y, 276H, 381H, 491Y (four full course equivalents)
1 half course from GGR207H, 280H, 300H
3 1/2 full course equivalents from JGS340Y, GGR233Y, 253Y, 255H, 324H, 325H, 330Y, 333H, 339H, 344Y, 346H, 349H, 357H, 361Y, 389H, 441H

Major programme M24215
6 full course equivalents are required in a programme of at least 15 full courses, including:
1 full course from GGR100Y, 131Y, 245Y, JBG230Y, (GGR245Y recommended)
GGR220Y
1 full course equivalent from GGR202H, 207H, 212H, 276H, 280H, 300H
3 full course equivalents from GGR381H, 491Y and the last option group of the specialist programme

Geology (B.Sc.)
Consult Department of Earth and Planetary Science

Specialist programme S05095
16 courses are required in a programme of at least 20 courses:
A minimum of 10 Geology courses (EPS/GLG) and 6 basic science courses are required. The basic science courses are defined as APM, BIO, BOT, CHM, CSC, MAT, PHY, STA, ZOO. The Geology specialist programme also requires participation in two field camps which are held following completion of the final examinations in the spring terms of the second and third years respectively.
The following courses are specifically required:
EPS120H, 121H or equivalent,
CHM135Y/150Y, MAT132Y/138Y, PHY132Y/140Y,
EPS219H, 221H, 222H, 270H, one full course

equivalent from: MAT108H/214H/228H/233H/235Y/238Y/STA202H/212H/242Y, EPS320H, 321H/337H/437H, 322H, 332H, 376H, 375H.
The basic science requirement can be completed by BIO101Y or higher level courses in APM, BOT, CHM, CSC, MAT, PHY, STA, ZOO, (except MAT104H and St. George campus courses BOT200Y, 201Y, MAT220Y, PHY315H, ZOO200Y).
Students are urged to include at least one half course in computer programming, such as CSC108H/148H in their programme.
The Geology course requirement consists of 4 full course equivalents in addition to the above, at least three of which must be at the 400 level. Note that certain GLG400 level courses have balloted enrolment limits.
The following may be substituted for EPS/GLG300 and 400 level courses: GGR311H, PHY324H(G), 338Y(G), 422H(G), BIO354H
Recommendations for more detailed course sequences, aimed toward specific fields within earth sciences, can be obtained from staff members. Such fields include: Petroleum Geology, Paleontology/Paleoecology, Geochemistry/Mineral Exploration, Global and Planetary Geology, Applied Geophysics. One such course sequence is outlined below:

Invertebrate Paleontology - Biostratigraphy Sequence (B.Sc.)
The invertebrate paleontology/biostratigraphy sequence is intended to be a programme guide for students preparing for graduate studies in invertebrate paleontology, biostratigraphy, or geo-environmental fields, or for undergraduates who have a specific interest in these fields, and who want a firm background in the fields of invertebrate paleontology, and stratigraphic geology.
The following course sequence is suggested:
CHM135Y, PHY132Y/140Y, MAT132Y/138Y, EPS120H, 121H, BIO101Y, STA202H, 212H/GGR202H/BIO360H, EPS222H, 219H, 221H, 270H, 320H, 322H, 332H, 375H, 376H, 381H/337H, BIO354H/356H
It is recommended that students take ENG100Y to fulfill their humanities requirement. Students are very strongly urged to register in EPS470Y and to undertake a research project in some aspect of stratigraphy, biostratigraphy, or sedimentology/diagenesis. Students should consult with Professor D. Kobluk (EPS) before undertaking this sequence of courses.

Geology and Chemistry (B.Sc.)
Consult Department of Earth and Planetary Science

Specialist programme S05795
15½ courses are required in a programme of at least 20 courses; they include a minimum of 1 Physics course, 6½ Chemistry, 6 Geology, 2 Mathematics courses

CHM150Y, EPS120H, 121H, PHY140Y, MAT132Y/138Y, CHM211H/226Y, 230H, EPS219H, 221H, 222H, MAT(214H, 233H)/238Y, CHM241Y, 314Y/326Y, EPS320H, 321H, 230H/330H, GLG331H + one and a half courses in 300/400 level geology or equivalent; two courses in 300/400 level chemistry, at least one of which is at the 400 level

Geology and Physics (B.Sc.)
Consult Department of Earth and Planetary Science: Professors H.C. Halls, G.W. Pearce

Specialist programme S16505
16 courses are required in a programme of at least 20 courses
1 Chemistry, 7 Mathematics/Physics and 8 Geology/Geophysics courses
CHM135Y/150Y, MAT138Y, PHY140Y, EPS120H, 121H, MAT214H, 238Y, PHY231Y, EPS219H, 221H, 222H
Recommended course to be completed by the end of second year: CSC108H/148H
APM311H, PHY351H, 354H, EPS322H, 332H, 335H, JGP334H, EPS337H/ 437H, 338H/438H
One PHY400 series course in Geophysics and 2o 1/2 GLG/EPS courses at the 300 or 400 levelo
Recommended: PHY352Yo
Note that the above programme leaves two course options during the first two years of study. Students are urged to use these options toward satisfying the Humanities and Social Sciences requirements.

German Language and Literature (B.A.)

Specialist programme S21355
10 courses are required in a programme of at least 20 courses
First year: GER202Y, 204Y or one of GER204Y/206Y
Second year: GER210Y, 222Y, one of GER251Y/271Y/280Y/a course in German history
Third and fourth years: GER326H; at least 2.5 courses from GER310Y/311Y, 410Y, 412H, 413Y, 415H, 416H, 490H; at least 3 courses, from GER321H, 322H, 323H, 327H, 331H, 332H, 421Y, 422Y, 425Y, 431H, 432H, 490H, to make a total of 10 courses

NOTE: Students without Grade 13 German wishing to specialize in German should arrange their programme in consultation with the Department.

Major programme M21355
7 courses are required in a programme of at least 15 courses

First Year: GER202Y, 204Y/206Y
Second Year: GER210Y, 222Y
Third Year: GER326H; at least one course from: GER310Y/311Y, 410Y, 412H, 413Y, 415H, 416H, 490H; at least 1 1/2 courses from: GER321H, 322H, 323H, 327H, 331H, 332H, 421Y, 422Y, 425Y, 431H, 432H, 490H, to make a total of 7 courses

NOTE: Students without Grade 13 German wishing to major in German should arrange their programme in consultation with the Department.

Minor programme R21355
Three courses in German forming a coherent series, which must be approved by the Department before enrolment in the second course

Greek and Roman History (B.A.)
Consult Department of Classics

Major programme M21115 (with language requirement)
7 courses are required in a programme of at least 15 courses
3 full course equivalents from the following list: CLA232H/234H/240Y/241Y/255Y(G)/340Y(G)/345Y(G)/350Y/352Y(G)/354Y/355H/360Y(G)/361Y/400Y/401H
4 courses in GRK and LAT, at least one in each language numbered 210 and above

Major programme M21115 (without language requirement)
6 courses are required in a programme of at least 15 courses
6 full course equivalents from the following list of which at least 2 must be 300 series: CLA130Y(G)/216H(G)/217H(G)/232H/ 234H/240Y/241Y/255Y(G)/340Y(G)/345Y(G)/350Y/352Y(G)/354Y/355H/360Y(G)/361Y/400Y/401H
1 course may be replaced by a comparable course in FAEI/HIS/NES approved by the Department

Minor programme R21115
Any 3 CLA courses listed in the major programme

History (B.A.)

Specialist programme S06525
10 full courses or their equivalent are required in a programme of at least 20 courses. Of the 10, at least 5 must be at the 300/400 level. The 10 courses are to be chosen from a minimum of 3 areas of study (i.e., European, Russian and East European, Medieval, Canadian, American, Latin American, British, industry and labour history, social and cultural history).
Students wishing to substitute history courses from other departments for HIS courses should consult the Discipline Representative. Courses in ancient Greek and Roman History are offered, for example, by the Classics Department. In each of the 2 areas of study, a minimum of 2 300/400 level courses must be taken.
Of the 10 courses at least 2 must deal with periods preceding 1815. (Consult the Erindale History Handbook for listings of pre-1815 courses.) Each specialist student must prepare a major research paper in a 400 series course or in an Independent Studies course (HIS497Y); consult the History Handbook or the Discipline Representative for additional information.

Major programme M06525
6 courses are required in a programme of at least 15 courses.
Of the 6, at least 2 must be at the 300/400 level. The 6 courses must be chosen from at least 2 areas of study (i.e., British, Latin American, Canadian, American, European, Medieval, Russian and East European, industry and labour history, social and cultural history).
Of the 6 courses at least 1 must deal with a period preceding 1815.
(Consult the Erindale History Handbook for listings of pre-1815 courses.) Students who wish to substitute a History course from another department for a HIS course should consult the Discipline Representative. Courses in ancient Greek and Roman History are offered, for example, by the Classics Department.

Minor programme R06525
3 courses, at least 1 at the 300/400 level, chosen from no more than 2 areas of study.

History and Economics
See Economics & History S06725

History and English
See English & History S04775

History and Geography
See Geography & History S24085

History and Philosophy (B.A.)

Specialist programme S02075
14 courses are required in a programme of at least 20 courses
History: A minimum of 6 courses from at least 2 areas of study (as listed above under History Specialist Programme)
1. Of the 6 courses at least 1 must deal with a period preceding 1815 (Consult the Erindale History Handbook for listings of pre-1815 courses)
2. In 1 area, at least 2 300/400 level courses must be chosen

Philosophy: A minimum of 6 courses, at least 2 above the 200 level
NOTE: Courses from other departments - normally not more than 2 - may be substituted for HIS courses with the approval of the Discipline Representative.

History and Political Science (B.A.)

Specialist programme S10455
Consult Associate Chairman, Department of History.
14 courses are required in a programme of at least 20 courses, 7 in each subject
History: 7 courses from at least two areas of study (e.g., British, Canadian), including at least two at 300/400 level.
HIS260Y/261Y/262Y
At least one course before 1815 (Consult departmental handbook for listings of these). Two HIS courses must correspond in area and theme to two of the POL courses chosen.
Political Science: 7 courses, of which at least five must be 200 or higher series and one 400 series.
POL100Y/102Y, 200Y
One course from each of two of the following fields: Comparative Politics (Developing), Comparative Politics (Industrial), International Relations, Political Behaviour, Public Policy and Public Administration
Three additional POL courses

History & Religious Studies
See Religious Studies & History

History and Sociology (B.A.)

Specialist programme S10525
Consult Professor J.N. Ingham, Department of History.
14 courses are required in a programme of at least 20 courses, seven in each subject
History: 7 courses from at least two areas of study (e.g. British, Canadian), including at least two at 300/400 level
At least one course before 1815 (Consult departmental handbook for listings of these). Two HIS courses corresponding in area and time or theme to two of the SOC courses
Sociology: SOC101Y/216Y, 200Y/201Y, 203Y, a 400 level Workshop, plus three courses related in area, time or theme to the student's work in HIS. At least two courses of the seven must be at 300/400 level

Italian (B.A.)
See also Modern Languages and Literature Cinema Studies and Renaissance Studies

Specialist programme S25245
10 full courses are required in a programme of at least 20 courses
ITA321Y, 436Y (or equivalent)/324Y
2 full courses or equivalent from ITA100Y, 115Y, 200Y, 210Y, 340Y, 341Y, 450Y
1 full course or equivalent from ITA324Y, 326H, 427H
1 full course or equivalent from ITA325H, 390Y, 395H
4 other courses in ITA including those listed above.

Major programme M25245
7 courses are required in a programme of at least 15 courses
ITA321Y
2 courses from ITA100Y, 115Y, 200Y, 210Y, 340Y, 341Y, 450Y
Any other 4 full courses or equivalent in ITA, including those listed above.

Minor programme R25245
3 ITA courses are required in a programme of at least 15 courses
Possible combinations:
Three courses or equivalent from the following, all given in English: ITA240Y/(270H and 272H)/275Y/330Y
or
Three consecutive language courses
or
Three courses or equivalent selected in consultation with and approved by the Italian Department

NOTE: Students intending to pursue graduate studies in Italian at the School of Graduate Studies in Toronto should take four full courses or equivalent covering the four main periods of Italian literature (i.e., Middle Ages, the Renaissance, the 17th and 18th centuries, the modern period) and must obtain an overall average of at least 75% in their last two years of study.

Mathematical Sciences (B.Sc.)

Specialist programme S25115
10 courses are required in a programme of at least 20 courses
CSC148H, 158H, MAT104H, 108H, 138Y
APM251Y, CSC238H, MAT228H, 238Y, STA242Y
MAT334H, MAT349H
one of: APM351Y/(311H, 336H)/CSC(228H, 258H)/MAT(338H, one other half-course at the 300 level or 400 level) STA(302H, 402H)/ (312H, 412H)
Plus one full course equivalent in APM, MAT, CSC or STA (excluding MAT105Y)

Major programme M25115
6 courses are required in a programme of at least 15 courses
MAT108H, 138Y, APM251Y, MAT228H, 238Y, MAT334H, MAT349H, and one 300/400 series full course in APM, CSC, MAT, or STA

Minor programme R25115
MAT108H, 132Y/138Y, one and one-half other courses in APM or MAT (excluding MAT105Y)
MAT228H may be substituted for MAT108H

Modern Languages and Literatures (B.A.)
(Given by the Language Departments of the Faculty)
The Modern Languages and Literatures programme is in effect a number of sub-programmes, any two of which may be undertaken concurrently. Upon graduation, a student may be certified as having completed a combined Specialist Programme in the two languages chosen.
14 courses are required in a programme of at least 20 courses, seven in each subject.
The programmes offered are as follows:

Programme Codes

English and French	S25615
English and German	S01575
English and Italian	S13935
English and Spanish	S18025
French and German	S23145
French and Italian	S08155
French and Spanish	S20725
German and Italian	S15025
German and Spanish	S21925
Italian and Spanish	S18785

The requirements in each subject are as follows:

English
For this programme a student is required to complete 7 full course equivalents in English, in a programme of at least 20 courses.
To select at least one full course from Group a (pre-1800) of the English Specialist programme, at least one course from Group b (post-1800), and any five other ENG courses, but only one 100 series ENG course.

French
7 courses, including at least 3 300+ series courses
First year: FRE150Y/161Y/171Y. (No more than 1 may count towards specialization.) Higher years:
1. FRE240Y
2. FRE271Y, FRE371Y. Students completing FRE271Y with a sufficiently high mark (see departmental brochure for details) may substitute for FRE371Y a course from Groups B, C, or D.
3. 1 course from Group A of the FRENCH programme.
4. 2 courses from two of Groups B, C, D of the FRENCH programme.

German
First Year: GER202Y, 204Y/206Y
Second Year: GER210Y, 222Y
Third Year: GER326H, at least one course from: GER310Y/311Y, 410Y, 412H, 413Y, 415H, 416H, 490H; at least 1 1/2 courses from: GER321H, 322H, 323Y, 324Y, 327H, 420Y, 421Y, 422Y, 425Y, 431H, 432H, 490H, to make a total of 7 courses

NOTE: Students without Grade 13 German wishing to major in German should arrange their programme in consultation with the Department.

Italian
First Year: One of the following courses: ITA100Y/115Y/ 200Y/210Y
Second year: Two of the following courses: (ITA200Y/210Y/340Y/341Y/450Y)/230Y/371Y/391Y
Third and fourth years: Four full courses or equivalent from the following: ITA321Y, 324Y, 325H, 326H, 340Y/450Y, 341Y/371Y, 390Y, 395H, 427H, 436Y

Note: No course may be counted twice.

Spanish
First year: SPA100Y/220Y
Second year: SPA220Y/320Y plus one full 200 series course (excluding SPA293H) if not taken in First Year
Third and fourth years: SPA320Y, 343H, 353H, 420Y, 425H; plus courses from the 300/400 series (including a half course in Spanish American literature) to make the equivalent of four full courses

Philosophy (B.A.)

Specialist programme S02315
The equivalent of 9 full courses in Philosophy is required in a programme of at least 20 courses, with at least half of the Philosophy courses above the 200 level. A student's programme must be approved by the staff Specialist Coordinator. This programme will normally be established by the end of the student's second year, and confirmed at registration in subsequent years. While students are encouraged to follow their personal interests and aims, it is strongly recommended that programmes include the following distribution of courses:
2 History of Philosophy, chosen from PHL200Y, 210Y, 303H, 304H, 307H, 312H, 313H, 315H
1 Logic, including PHL245H plus one of 246H, 325H, 344H, 345H, 346H, 347H, 349H, 350H, 351H
1 Epistemology/Metaphysics, chosen from PHL320H, 327H, 332H, 333H, 340H, 341H
1 Ethics/Social and Political, chosen from PHL271H, 277Y, 365H, 370H, 373H, 375H

Major programme M02315
The equivalent of 6 full Philosophy courses is required in a programme of at least 15 courses, with at least two of the Philosophy courses above the 200 level. A student's programme must be approved by the staff Specialist Coordinator. This programme will normally be established by the end of the student's second year, and confirmed at registration in subsequent years. While students are encouraged to follow their personal interests and aims, it is strongly recommended that programmes include the following distribution of courses:
1 History of Philosophy, chosen from PHL200Y, 210Y, 303H, 304H, 307H, 312H, 313H, 315H
1/2 Logic, PHL245H
1 Epistemology/Metaphysics, chosen from PHL320H, 327H, 332H, 333H, 340H, 341H
1 Ethics/Social and Political, chosen from PHL271H, 277Y, 365H, 370H, 373H, 375H

Minor programme R02315
The equivalent of 3 full Philosophy courses is required in a programme of at least 15 courses

Combined Specialist programmes
Philosophy and Economics S11835
Philosophy and English S25585
Philosophy and History S02075
Philosophy and Political Science S17464
Philosophy and Religious Studies S09825

Philosophy and Economics
See Economics and Philosophy

Philosophy and English
See English and Philosophy

Philosophy and History
See History and Philosophy

Philosophy and Political Science (B.A.)

Specialist programme S17465
14 courses are required in a programme of at least 20 courses

Philosophy
7 courses, 5 to be chosen according to the profile specified in the Philosophy specialist programme above, at least 2 of them above the 200 level

Political Science
7 courses, at least 5 from the 200 level or above and at least 1 from 300 level, as follows:
POL200Y
1 course in Canadian Government
1 course from each of 2 of the following 5 fields: Comparative Politics (Developing), Comparative Politics (Industrial), International Relations, Political Behaviour, Public Policy and Public Administration
3 additional courses in Political Science

Philosophy and Religious Studies
See Religious Studies and Philosophy

Physical Chemistry
See Chemistry (Physical)

Physics (B.Sc.)

Specialist programme S19445
14 courses required in a programme of at least 20 courses
PHY140Y, MAT138Y
PHY224H, 240Y/231Y, 257H, 258H, MAT238Y, 214H/APM251Y
PHY325Y/326H, 351H(G), 352H(G), 354H(G), 355H(G), 356H(G), APM311H/ 351Y/346H(G), MAT334H
Four 400 series PHY courses including at least three of the following (regardless of whether they are full or half-courses): PHY453H(G), 454H(G), 455H(G), 456H(G), 458H(G), 459Y(G), 468H(G)

Major programme M19445
7 courses required in a programme of at least 15 courses
PHY132Y/118Y/140Y, MAT132Y/138Y
PHY(218H/221H + 219H)/240Y, PHY(257H + 258H)/(257H + 224H), MAT(214H&233H)/238Y, PHY325Y/326H, and two or three of PHY332H, 333H, 334H, JGP334H, APM311H

Recommended preparation: Students are advised to take PHY224H as an introduction to the advanced laboratory work in PHY325Y/ 326H
NOTE: Up to 7 courses taken at the St. George or Scarborough Campuses may be used to complete the requirements of the major programme in Physics. Interested students should consult with the faculty advisor in Physics.

Physics and Astronomy
See Astronomy and Physics

Physics and Geology
See Geology and Physics

Political Science (B.A.)

Specialist programme S20155
10 courses in Political Science, at least 8 from the 200 or higher series (of which at least two must be from the 400 series), are required in a programme of at least 20 courses
a) POL200Y, 320Y
b) one course in Canadian Government
c) one full course (or the equivalent) from each of 3 of the following 4 fields:
Comparative Politics (Developing)
Comparative Politics (Industrial)
International Relations
Public Policy and Public Administration
d) 4 additional courses in Political Science
Recommended: ECO100Y

Major programme M20155
7 courses in Political Science, at least 5 at the 200 or higher series are required in a programme of at least 15 courses
a) POL200Y
b) 1 course in Canadian Government
c) 1 course from each of 2 of the 4 fields in Group c) of the Specialist programme
d) 3 additional courses in Political Science

Minor Programme R20155
POL200Y and 2 other POL courses

Political Science and Economics
See Economics and Political Science

Political Science and History
See History and Political Science

Political Science and Philosophy
See Philosophy and Political Science

Psychology (B.Sc.)

Specialist programme S11605
10 full courses in Psychology or their equivalent are required in a programme of at least 20 courses. All candidates for specialization must take PSY100Y and PSY201H. In addition, the remaining 8 1/2 full courses must satisfy the distribution requirements listed below in section II.2 and III.1 and the laboratory requirement in section III.2. The student interested in specializing in Psychology should take into account distribution requirements as well as course prerequisites in planning the remaining 8 1/2 courses. It should be noted that a single course may not be used to satisfy more than one distribution requirement.

I. PSY100Y
II.1) PSY201H,
2) One course, full or half, from each category:
a) Biological Bases of Behaviour: PSY252H/ 290Y
b) Developmental and Social Processes: PSY210Y/220Y/ 230H
c) Cognitive Processes: PSY260H/270Y/280Y
III.1) One course, full or half, from each category:
a) Biological Bases of Behaviour: PSY324H/ 354H/380H/393H/394H/399H/JBP359Y
b) Developmental and Social Processes: PSY311H/314H/315H/316H/319H/320H/ 324H/329H/330H/331H/332H/340Y/341H/ 342Y/410H/420H/440H
c) Cognitive Processes: PSY314H/315H/330H/ 331H/373H/374H/376H/379H/389H/393H/ 480H
2) One laboratory course or equivalent: PSY309H/319H/329H/379H/389H/399H/ JBP359Y
3) Sufficient additional courses in Psychology to meet the requirement of 10 full courses in Psychology. At least 5 must be at a level of 300 or 400.

Courses at 300 and 400 level which satisfy the requirements of III.1 and III.2 can count toward the requirement of at least 5 full courses at level 300 and 400. Psychology courses which meet the requirements in I and II can be counted toward the total requirement of 10 full courses in Psychology. Requirements of II.1 and II.2 are recommended in second year. Candidates for the specialist programme should meet with their faculty advisor and have their proramme approved.
NOTE: A student choosing PSY309H to satisfy the laboratory requirement in section III.2 must, in addition, take a limited enrolment course at the third or fourth year level (i.e., a seminar course, an independent study course, or the thesis course). A student choosing a laboratory course to satisfy section III.2 is not required to take an additional limited enrolment course.

Major programme M11605
6 full courses or the equivalent number of half courses are required for a major in psychology.

PSY100Y must be one of these 6 courses. Students must satisfy section II.2 of the specialist programme. Courses which satisfy section II.2 can be counted toward the requirement of 6 full courses. At least 2 of these 6 courses must be at level 300a

Religious Studies (B.A.)

Specialist programme S01515
9 REL courses are required in a programme of at least 20 courses
Students must submit their course selections to the department for review annually and should consult a faculty advisor before doing so.
REL100Y is a required course.
Of the additional 8 approved courses:
4 must be in the 300+ series, including at least 1 in the 400 series;
2 *may* be courses related to Religious Studies but given by other departments or Colleges
Course selection must ensure that more than one religious tradition is studied
Course selection must also ensure the application of the major types of method (historical, philosophical, social scientific) employed in the study of religion.
Course selection must ensure that, of a student's 9 courses, at least 4 develop depth and focus of study in one area of specialization such as: Religions of the West; Religions of the East; Scriptures; Religion, Ethics and Society; Philosophy of Religion. For other possible areas of specialization, students should consult the department handbook, a faculty advisor or the Discipline Representative.

Major programme M01515
5 REL courses are required in a programme of at least 15 courses
REL100Y is a required course.
Of the additional 4 approved courses, 2 must be in the 300+ series;
1 *may* be a course related to Religious Studies given by another department or College
The major programme is designed to concentrate on one religious tradition, on a comparative study of traditions, or on an area such as suggested above.

Minor programme R01515
3 approved REL courses, among which REL100Y is strongly recommended

Religious Studies & History (B.A.)

Consult the Discipline Representative, Department of Religious Studies, Erindale College
Specialist programme S02205
14 courses; 6 in each subject, 2 additional courses from either Department
HISTORY:
First Year: At least 1 100 or 200 series HIS course; 100 series courses are strongly recommended.
Higher Years: Additional HIS courses to a total of from 6 to 8, from at least two of the following areas of study: a) American b) Asian, African, Latin American c) British d) Canadian e) East European and Russian f) Medieval g) Social History.
The following requirements must be fulfilled:
1. At least 2 300/400 series courses must be taken.
2. At least one course must cover a period prior to 1815.

RELIGIOUS STUDIES:
First or Second Year: REL 100Y
Second and Higher Years: Additional REL courses to a total of from 6 to 8, with a concentration of at least 3 courses in a particular tradition (such as Buddhism, Christianity, Hinduism, Islam, Judaism) or in Religions of the West or Religions of the East. The following requirements must be fulfilled:
1. At least 2 300/400 series courses must be taken.
2. aCourse selection must ensure that more than one religious tradition is studied (beyond thea work in REL 100Y)

Religious Studies and Philosophy (B.A.)

Combined Specialist programme S09825
14 courses are required in a 20 course programme. Each student's programme is to be designed to fulfil the requirements of a Major Programme in Religious Studies or Philosophy on completion of 15 courses.

NOTE 1 *Breadth* is achieved through study of both Eastern and Western religious traditions. REL100Y is a required course for Specialists and Majors. Attention should also be paid to different approaches to the study of religion (historical, philosophical, social scientific).
Depth is achieved by pursuing advanced knowledge of a particular tradition or method.

NOTE 2 Students pursuing Specialist, Combined Specialist or Major Programmes must fulfill not only the departmental or college programme requirements, but also the general degree requirements listed at the front of the Calendar.

Erindale College provides Specialist, Major and Minor programmes in Religious Studies. For the completion of certain programmes it may be necessary to supplement the Erindale course offerings with selected courses on the St. George Campus.

Sociology (B.A.)

Specialist programme S10135
9 SOC courses are required in a programme of at least 20 courses
SOC101Y/216Y, 200Y/201Y-*Strongly recommended* to be taken during the second year
SOC203Y/313Y
At least three SOC courses in one of the five subspecialty areas, with at least one of the three from the 300/400 series.
The subspecialty areas are:
Theory and Methods: SOC200Y, 201Y, 203Y, 313Y, 319Y, 321H, 322H,a410H, 411H, JGS340Y
Societies: SOC206Y, 220Y, 304Y, 312Y, 324Y, 422H, 423H
Interaction: SOC206Y, SOC202Y, 214Y, 215Y, 245Y, 280Y, 284Y, 308Y, 309Y,a315Y,a316Y,a329H, 331Y, 334Y,a420H,a421H
Inequality: SOC210Y, 212Y, 301Y, 303H, 306Y, 330H, 422H,a423H
Urban Life: SOC205Y, 206Y, 207Y, 305Y, 311Y, 325Y, 327Y, 328H, 329H,aJGS340Y, SOC346Y, 422H, 423H
At least two SOC300/400 series courses, at least one of which must be a "Selected Topics" seminar from the 400 series.

Major programme (General) M10135
6 SOC courses are required in a programme of at least 15 courses: SOC101Y/216Y, 200Y/201Y-*Strongly recommended* to be taken during the second year. SOC203Y/313Y. At least two SOC courses in one of the five subspecialty areas listed under the Specialist Programme.

Major programme (Communications) M22685
6 courses are required in a programme of at least 15 courses: SOC101Y/216Y, 152Y, 200Y/201Y, 203Y/313Y
2 of the following: SOC280Y, 284Y, 308Y, 309Y, 331Y, 334Y

Minor programme R10135
3 courses are required in a programme of at least 15 courses: SOC101Y/216Y and any 2 other SOC courses

NOTES: For SOC201Y, ECO220Y/GGR202H, 212H/STA202H, 212H/PSY201H, 202H/PSY201H, PSY309H will be regarded as equivalent.
SOC101Y/216Y is a prerequisite for all other SOC courses.
Instructors in subsequent courses will assume that the student has the background knowledge provided by the courses' prerequisites.

Sociology and History
See History and Sociology

Spanish (B.A.)
See also Modern Languages and Literatures

Specialist Programme S06235
10 SPA courses are required in a programme of at least 20 courses
3 full courses or equivalent are required in addition to the programmes listed below. Students must include SPA425H in their programme

Combined Specialist programme
7 courses are required in a programme of at least 20 courses
a)aFor students beginning Spanish:
1. SPA100Y, 220Y, 320Y, 420Y
2. Two full SPA courses or equivalent in literature, linguistics, or civilization, one of which must be at the 300 or 400 level
3. SPA343H, 353H (SPA425H recommended)

b)aFor matriculantsa
1. SPA220Y, 320Y, 420Y
2. One full SPA course or equivalent at the 200 level
3. 1.5 SPA courses in literature at the 300/400 level
4. SPA343H, 353H, 425H

c) For Native Speakers of Spanish:
1. SPA320Y, 420Y
2. SPA343H, 353H, 425H
3. 3.5 courses in literature, linguistics or civilization, at least 2 at the 300/400 level

Major programme M06235
6 SPA courses are required in a programme of at least 15 courses
1. SPA100Y or equivalent
2. SPA220Y or equivalent
3. SPA320Y or equivalent
4. One additional SPA full course or equivalent at the 300/400 level
5. 2 additional SPA full courses or equivalent in language, literature or civilization

Minor programme R06235
Any three courses approved by the Discipline

Statistics, Applied (B.Sc.)

Specialist programme S15405
9 courses are required in a programme of at least 20 courses
MAT132Y/138Y, CSC148H/150H, (STA202H recommended)
STA262Y, MAT228H, (233H and 214H)/234Y/238Y, CSC158H
STA302H, 312H, 322H(G), 347H, 402H, 412H, 437H(G), 427H(G)/432H/442H(G)/447H(G)/457H(G);CSC238H/258H/351H

Major programme M15405
6 courses are required in a programme of at least 15 courses
MAT132Y/138Y, CSC148H/150H (STA202H recommended)
STA242Y/262Y, (MAT233H and 214H)/234Y/238Y, CSC158H, (MAT228H recommended)
(STA302H and STA402H)/(STA312H and STA412H)
Equivalent of 1 full course from STA302H, 312H, 322H(G), 347H, 402H, 412H, 432H, 427H(G), 437H(G), 442H(G), 457H(G);

Minor programme R15405
MAT132Y/138Y, STA242Y/262Y
1 full STA course from courses numbered 300 level or higher

Survey Science (B.Sc.)

Specialist programme S08775
13.5 courses in a programme of at least 20 courses
MAT138Y/132Y, PHY140Y/132Y, EPS120H, 121H/GGR100Y, CSC108H, ECO100Y, STA242Y, INE203H/205H (ENG100Y alternative for a full credit), SUR201H and SUR202H, (These courses should be taken in first year of study)
SUR203H, 204H, 210H, 250H, 311H, 312H, 321H, 322H, 335H, 336H, 405H, 458H, 455H/495H

Major programme M08775
6.5 courses in a programme of at least 15 courses
MAT138Y/132Y, PHY140Y/132Y, STA242Y, SUR201H, 202H, 203H, 204H, 210H, and any two of SUR311H, 312H, 321H, 322H, 335H, 336H, subject to prerequisites.

The following constitute Specialist or Major programmes in Approved Areas of Study.

Canadian Studies (B.A.)

Faculty Advisor: Professor J. Dutka
"The most valid and compelling argument for Canadian Studies is the importance of self-knowledge, the need to know and to understand ourselves."
The Canadian Studies Programme at Erindale offers both a Specialist and a Major concentration drawn from courses in Anthropology, Commerce, Economics, English, Fine Art, French, Geography, History, Philosophy, Political Science and Sociology. Interdisciplinary in nature, the programme is nonetheless designed so that students can fulfill entrance requirements of the Faculty of Education or the School of Graduate Studies by a careful selection of courses in other areas. Students wishing to complete a specialist or major certification in Canadian Studies must notify and register with the Faculty Advisor.

Specialist Programme S07285
11 courses are required in a 20 credit degree programme
a) In the first and second years:
HIS262Y, POL100Y, ENG252Y, FRE161Y/171Y (or, if an exemption is granted, a course in French Canadian literature in the original language)
b) In the third and fourth years:
GGR245Y, INE401Y, 402Y, and 4 courses with a disciplinary, thematic or chronological coherence chosen, with the approval of the advisor of the programme, from the list of approved courses offered on either the Erindale or the St. George Campuses

Major Programme M07285
7 courses are required in a 15 credit degree programme
HIS262Y, POL100Y, ENG252Y, FRE161Y/171Y (or, if exemption is granted, a course in French Canadian Literature in the original language), GGR245Y; and 2 courses chosen from those approved for the Specialist programme, both of which must be at the 300/400 level.

For course descriptions of INE401Y and INE402Y, see under Interdisciplinary Studies.

Students may also be interested in the major programme in Literatures and Languages in Canada, administered through New College, but open to Erindale students. For further information, consult the Faculty Advisor.

Cinema Studies (B.A.)

Faculty Coordinator: Professor J. Bielert (German)

Minor Programme R0797
3 full courses are required in a programme of at least 15 courses
INE112Yand 2 additional courses from: GER251Y/ ITA240Y/330Y

Crime and Deviance (B.A.)

Faculty Coordinator: Departmental Advisor (Sociology)
This approved area of study is designed to provide a broad foundation for students who may have a vocational, academic and/or civic interest in issues of crime and its control.
This might include:
(a) students who at a later stage may seek careersa in the criminal justice system (e.ga policea probation and prison work);
(b)astudents who at a later stage may wish to pursue more advanced work in areas relateda to, for example, criminology or social work;
(c)astudents wanting to know more about the topics of the sociology of crime, particularly as these become issues of public policya

Major Programme M07275
A minimum of 7 full course equivalents in a 15 credit degree programme.
5 full course equivalents are required (including 2 prerequisite full course equivalents).
SOC101Y/216Y, PSY100Y, SOC212Y, 306Y, 303H, PSY324H/SOC329H

Optional Courses: Two full course equivalents to be selected from the following: PHL271H, 370H, PSY220Y, 230H, 260H, 340Y, SOC324Y, 301Y, 346Y

Earth Resources (B.Sc.)

Faculty Coordinators: Professor S. Luk (Geography)
Professor G.W. Pearce (Earth & Planetary Science)
This programme is designed:
(1) to acquaint students with problems related to the physical resources of the earth and to the use of these resources by man; and
(2) to develop pertinent skills used in government resource agencies, consulting firms, and resource industries.

Specialist Programme S01125
A minimum of 12 courses are required in a 20 credit programme including:
(a)aall of: CHM135Y, EPS120Y, GGR100Y, MAT132Y, PHY132Y/140Y, EPS219H, 200H/222H, 221Ha
(b) 1 1/2 full course equivalents from: GGR201H, 205H, 206H, 207H, 214Ha
(c)a1 1/2 full course equivalents from: EPS270H,a 320H, 322H, 375H, 345H/376H
(d)a1 1/2 full course equivalents from: GGR301H, 302H, 307H, 312H, 316H, 374H, 376H
(e)a1 full course equivalent from: GGR233Y, 333H, 334H

Supplementary Course Sequence: It is strongly recommended that students also take some courses from one of the following groups:
(1)a*Biophysical Resources*
BIO101Y, 230H, 231H, 332Y, 435H
(2)*Resource Assessment Techniques*
GGR202H, 212H, 276H, 280H, 377H
(3)a*Resource Utilization and Development*
ECO100Y, 200Y, 220Y, 314H, 371H, GGR352H, 354H
(4)a*Land Information Systems*
CSC108H, MAT21aH, 233H, SUR230Y, 337H, 361H, 362H, 392H

Major Programme M01125
A minimum of 7 courses are required in a 15 credit programme, including:
(a) all of: EPS120Y, 219H, 200H/222H;GGR100Y
(b) 1 1a2 full course equivalents from: GGR201H, 205H, 206H, 207H, 214H
(c) 1/2 full course equivalents from: GGR301H, 302H, 307H, 312H, 316H, 374H, 376H
(d) 1 full course equivalent from: GGR233Y, 333H, 334H

Supplementary Course Sequence: It is strongly recommended that students also take some courses from one of the following groups:
( ) *Biophysical Resources*
(:) *Resource Assessment Techniques*
(3) *Resource Utilization and Development*
(See Specialization Requirements above)
(4) *Geological Resources*
CHM135Y, MAT132Y, EPS221H, 270H, 320H, 375H, 345H/376H

Environmental Science (B.Sc.)

Faculty Coordinators: Professor D.S. Munro (Geography)
Professor J. Svoboda (Biology)
This cooperative programme between Biology and Geography is designed to prepare students for

employment or advanced study in environmental assessment and management by:

1) familiarizing students with the structure and function of various types of natural and managed environments
2) educating students about environmental problems and the conceptual and practical skills useful in developing and implementing possible solutions

Specialist Programme S1061
12 1/2 courses are required in a 20 credit programme

1) As basic preparation in the sciences: BIO201Y, GGR100Y, CHM135Y, MAT132Y, PHY120Y/132Y/140Y
2) As basic preparation in environmental studies: JBG230Y, BIO205H and 203H/204H
3) Two half courses from the following group in physical geography: GGR201H, 205H, 206H, 214H
4) One full course equivalent in statistics: GGR202H, 212H/ BIO360H, 361H
5) One half course emphasizing field methods from: BIO300H, 301H, 302H, 316H, GGR379H
6) One course in advanced ecology from BIO317Y, 330Y, 332Y, 430Y
   One full course equivalent in advanced physical geography
7) from: GGR301H, 302H, 304H, 307H, 312H, 316H, 374H, 376H, 377H
8) One full course in independent research JBG491Y

To meet the current graduation requirements one course offered by the Division of Humanities is also required, as well as one non-science course from the Division of Social Sciences.

In the remaining 5 1/2 options available in a 20 credit programme, students are urged to include courses not yet selected from groups 3, 5, 6 and 7 above, or from the following lists.

1) Related Biology courses: BIO235Y, 310H, 311H, 312H, 318H, 319H, 334H, 355H, 370Y, 405H, 433H, 442H, JBP359Y
2) Cognate Sciences: CHM215H, CSC108H 158H, MAT235Y, PHY210Y
3) Techniques of Analyses and Assessment: GGR207H, 233Y, 280H, 300H, 335H, 381H

Major Programme M1061
7 courses are required in a 15 credit programme

1) As basic preparation in Geography and Biology: BIO201Y, GGR100Y
2) As basic preparation in environmental studies: JBG230Y and BIO203H/204H/205H
3) Two half courses from the following group in physical geography: GGR201H, 205H, 206H, 214H
4) One full course equivalent in statisticse BIO360H, 361H/ GGR202H, 212He
5) One half course emphasizing field methods from among: BIO300H, 301H, 302H, 316He GGR379He
6) One full course equivalent in advanced physical geography from among: GGR301H, 302H, 304H, 307H, 312H, 316H, 374H, 376H, 377He

To meet current graduation requirements one course offered by the Division of Humanities is also required, as well as one non-science course from the Division of Social Sciences.

Of the remaining 6 courses in a 15 credit programme, students are urged to include courses not yet selected from groups 3, 4, 5, and 6 above, or from the lists following the description of the specialist programme.

Exceptionality in Human Learning (B.A.)

Faculty Coordinator: Professor S. Trehub
This approved area of study is designed to provide a broad foundation for students who may have a vocational, academic, and/or civic interest in issues concerning exceptional children and adults, both the gifted and the handicapped. These students might include:
(a) those who at a later stage may wish to pursue more advanced work in special education, mental or physical rehabilitation programmes, group home management, adult retraining, etc.
(b) those who at a later stage may wish to pursue more advanced study in areas related to hearing impairment, visual impairment, mental retardation, physical disability, or related fields.
(c) those wanting to know more about the psychology and sociology of exceptional individuals, particularly as these become issues of public policy.

Specialist Programme S14405
(Limited enrolment)
13 full course equivalents in a 20 credit degree programme
8 1/2 courses are required:
PSY100Y, 210Y, 340Y/(330H and 331H), 341H, 342Y, SOC101Y and 3 other Sociology courses.
4 1/2 additional full course equivalents to be selected from the following; no more than two from any one discipline; at least one full course equivalent (but not more than two) must be selected from the group DRM-PHL.

PSY201H/270Y/311H/314H/315H/319H/330H/331H/340Y/373H/374H/376H, SOC201Y/214Y/215Y/245Y/311Y/316Y/334Y, DRM200Y, ENG100Y, 259H, FAS143H/146H, LIN100Y, PHL272H/281H

Major Programme M14405
6 full courses are required in a 15 credit programme
PSY100Y, 210Y, SOC101Y
One additional full-course equivalent in Psychology to be chosen from PSY315H, 330H, 331H, 340Y, 341H
2 additional full-courses in Sociology to be chosen from SOC152Y, 214Y, 215Y, 245Y, 311Y, 334Y
Students may wish to supplement this programme by choosing additional courses from among those required or suggested for the Specialist Programme

Latin American Studies (B.A.)

Faculty Coordinator: Professor D.L. Raby (History)

Major Programme M05525
A minimum of 7 full course equivalents in a 15 credit degree programme
7 full course equivalents (for students with Grade 13 Spanish)
8 full course equivalents (without Grade 13 Spanish)
SPA220Y*, 280Y, 320Y, HIS289H, 290H, 484Y, ANT210Y, INE390Y

Supplementary courses:
The programme may be supplemented with one or more of the following courses: HIS335H, 391H, 492Y, SPA366H, 382H, 385H

***NOTE:** Native speakers of Spanish are required to substitute the equivalent of one full course at the 300 level in Spanish American literature for SPA220Y

Logic (B.A.)

Faculty Coordinator: Philosophy Discipline Representative

Major Programme
6 full course equivalents are required in a 15 course programme
a) CSC148H, 364H (For students in the programme, the prerequisite for CSC364H will be satisfied by the combination of CSC148H, MAT228H and PHL344H)
b) MAT132Y/138Y, 228H, 309H
c) PHL245H, 344H, 345H
d) Three of PHL246H, 346H, 347H, 349H, 351H, 355H

NOTE: No more than three full courses from any one department may be included in the programme.

Material Culture (B.A.)

Faculty Coordinator: Professor T.F. McIlwraith (Geography)
This programme is built around a number of Erindale courses dealing with the artifacts created by human societies. Buildings, tools, field systems, machines and books are evidence of the breadth of man's material contributions to culture whether these objects are prehistoric or modern, urban or rural, vernacular or high art, preindustrial or computer-age. These courses study artifacts from many perspectives. Field studies in museums, galleries, factories, archives, and less formally of the out-of-doors itself are a component of many of these courses. There are some insights into conservation, preservation, restoration, and museum work.

Major Programme M15755
Students may enter the programme without specific prerequisite courses, beginning in their second year (i.e. with 4 or more full course equivalents). Introductory courses such as ANT100Y, FAH101Y, 102Y, GGR131Y, SOC101Y are useful background, but not essential.

A minimum of 6 full course equivalents are required in a 15 credit degree programme
1. INE350H
2. At least one full course equivalent from at least three of the following groups of courses:
   a) ANT201Y, 210Y, 226Y, 228H, 301H, 302H, 305Y
   b) DRM120Y, ENG264H, CLA234H, HIS248Y, 352Ya
   c) FAH211H, 256H, 258H, 268H, 365H
   d) GER251Y, 271Y, HIS346Y, ITA275Y, SPA250Y, 280Y
   e) GGR253Y, 300H, 349H, 351Y
   f) SOC315Y

Note: Students are encouraged to explore through related fields for appropriate complementary courses, and to seek faculty advice.

Native Studies (B.A.)
Faculty Coordinators: Professor R.M. Vanderburgh (Anthropology)
Professor W.B. White (History)
Issues involving Native peoples have become not only of contemporary concern, but have revived interest in the cultures and events of the past. This programme examines the cultures of the past and present, as well as the history and theoretical

framework of the interaction of Native and colonizing peoples. The programme is interdisciplinary, combining the courses and approaches of Anthropology, History, Sociology, and Geography. It complements programmes with interests in North American studies, ethnic/racial history, and environmental studies. Students may pursue special interests through an independent study course.

Major Programme M01595
A minimum of 7 full course equivalents in a 15 credit degree programme
Required courses: ANT241Y, SOC330H, HIS417Y, ANT304H/319H

Optional Courses:
4 full course equivalents to be selected from the following:
ANT201Y/204Y/228H/398Y/GGR351Y/HIS391H/497Y/SOC304Y/SPA280Y

Population and Society (B.A.)

Faculty Coordinator: Professor W. Kalbach (Sociology)
This approved area of study is designed:
(1) to introduce students to the place of population issues in modern society and
(2) to develop in students basic demographic skills operable in academic, social service, planning and marketing agencies.

Major Programme M09255
A minimum of 7 full course equivalents in a 15 credit degree programme
7 full course equivalents (including prerequisites) SOC101Y/216Y, GGR255H, HIS248Y, SOC200Y/201Y, 220Y, 312Y, 422H, ANT305Y

Supplementary course sequence: It is strongly recommended that students also take one of the following groups of related courses:

Demographic Prehistory
ANT203Y, 334Y, 433H
NOTE: the student is encouraged to take ANT203Y in Year I

Cultural Relations
ANT204Y, 242Y, SOC330H/210Y
NOTE: the student is encouraged to take ANT204Y in Year 1

Canadian Urban Society
GGR245Y, SOC205Y, 422H/423H
NOTE: the student is encouraged to take GGR245Y in Year I

Race and Ethnic Relations
PSY100Y, 220Y, 321H, SOC330H/210Y

Renaissance Studies (B.A.)

Faculty Coordinator: Professor L.T. McCormick (Italian Studies)

Major Programme M05325
A minimum of 7 full course equivalents in a 15 credit degree programme
3 full course equivalents are required: HIS357Y, ITA275Y, INE390Y
Optional Courses:
4 full course equivalents to be selected from the following, with no more than 2 full course equivalents from any one discipline: ENG206Y/212Y, 302Y/304Y/332Y/413Y/FAH200Y/330Y/ 331H/332H/FRE220Y/ITA324Y/326H/427H/SPA343H/353H

Language Facility: A reading knowledge of Latin or of a major European language other than English is required at a level equivalent to a 100 series course (Latin recommended). The degree of facility will be assessed by the Discipline Representative of the language involved.

Urban Studies (B.A.)

Faculty Co-ordinator: Professor G.H.K. Gad (Geography)
The Urban Studies Programme is characterized by a unifying theme, not by any one perspective or methodology. The unifying theme for Urban Studies could be described as the study of the forces which give rise to towns and cities, the public policies directed at urban settlements, and the effects these particular forms of settlement have on society in a broad sense. The Urban Studies Programme enables the student to apply the viewpoints and methods of various disciplines to urban phenomena.
Students may graduate with a Specialist or Major programme in Urban Studies (for detailed requirements see below). Given careful programme planning it is possible to graduate with a double Specialist in Urban Studies and one of the traditional disciplines. The advantage of the double Specialist is the combination of an innovative, broad perspective on urban phenomena with a traditional methodological base. It is relatively easy to combine either an Urban Studies Specialist with a discipline Major programme, or the other way round, a discipline Specialist with an Urban Studies Major programme.

It is advisable to plan an Urban Studies Specialist Programme, and especially a double Specialist, as early as possible, at least by the end of first year. Many of the urban courses have prerequisites that must be met or recommended courses which aid in preparation. For example, students interested

in Urban Economics (ECO333Y) should be aware that the course has four prerequisites (MAT132Y, ECO100Y, 200Y, 220Y/STA242Y). Students are strongly urged to consult the Urban Studies faculty coordinator for programme planning and advice about the variety of different course combinations.

Specialist programme S22075
10 full course equivalents are required in a programme of at least 20 courses
1. *Methodology courses:* 1 full course equivalent of the following: ECO220Y, GGR202H/212H, SOC201Y, STA202H/212H/242Y
2. *Urban Courses*
   At least 5 full course equivalents from the following:
   ECO333Y, FAH337H, 365H, GGR220Y, 245Y, 324H, 339H, 346H, 349Y, 357H, 441H, JGS340Y, POL308Y, SOC205Y, 328H, 422H, 423H
3. *Contributing Courses*
   No more than 4 full course equivalents from the following:
   FAH211H, 256H, 337H, 365H, 370H, GGR255H, SOC304Y, 312Y, 330H

Notes:
1. In selecting from categories 2 (Urban Courses) and 3 (Contributing Courses) above, students should cover at least *three* disciplines (i.e. ECO, FAH, GGR, POL, SOC) but choose no more than *five* from any one discipline.
2. Other courses not listed above may be included with the permission of the Urban Studies Programme Committee.

Major programme M22075
6 full course equivalents are required in a programme of at least 15 courses
1. At least *four* full course equivalents from category 2 (Urban Courses) above
2. No more than *two* full course equivalents from category 3 (Contributing Courses) above

Note: In selecting from categories 2 (Urban Courses) and 3 (Contributing Courses) above, students should cover at least three disciplines with no more than three from any one discipline.

Students wishing to pursue a programme other than (or in addition to) those offered by the disciplines or listed above may apply, through their Dean, for an individual Approved Area of Study. Such students should submit a coherent grouping of courses designed to meet their individual needs.

Individual Approved Area of Study (4 Year)
S04085
9 to 16 full course equivalents (including prerequisites)

Individual Approved area of Study (3 Year)
M04085
5 to 7 full course equivalents (including prerequisites)

Special Erindale Programmes

Concentrated Programmes In The Humanities And In The Social Sciences Leading To A Bachelor Of Arts Degree

Faculty Coordinators: Prof. R.L. Beck (Humanities Programme)
Prof. L.J. Brooks (Social Sciences Programme)
Well-qualified and highly-motivated students seeking a thorough grounding in either the Humanities or the Social Sciences before proceeding to further professional or academic training may be eligible for Erindale's concentrated programmes in these areas, leading to a fifteen-credit B.A. in two years.
Students seeking admission to either of these programmes should have a Grade 13 (Ontario) final average of 75% or the equivalent. However, in order to enter the second session of the programme, all students must have completed five full course equivalents with a GPA of 3.0.
Students are expected to complete fifteen courses during the winter and summer sessions. They may take a maximum of two courses each summer and a maximum of six courses during the winter session. Students who plan to follow either programme are strongly advised not to undertake part-time employment during the duration of their academic programme, except if and when taking a single course during the summer session.

Humanities Programme: M08915
To secure a well-rounded preparation in the Humanities, a student will be expected to:
(a) complete the requirements of the Erindale curriculum, including a major concentration or a major in an approved area of study, and a full course equivalent in each of the Divisions of Sciences and Social Sciences.
(b) complete at least one credit in each of the following categories:
    (1) a language
    (2) literature or art
    (3) history
    (4) philosophy or religion

For the distribution of these courses among disciplines, consult the advisor.

Social Sciences Programme: M16725
To secure a well-rounded preparation in the Social Sciences, a student will be expected to:
(a) complete the requirements of the Erindale curriculum, including a major concentration or a major in an approved area of study, and a full course equivalent in each of the Divisions of Sciences and Humanities.
(b) complete at least one credit in each of the following:
    (1) mathematics or statistics or computer science
    (2) economics or political science
    (3) sociology
    (4) geography or anthropologye

For the distribution of these courses among the disciplines, consult the advisor.

In the final session in either programme, a course consisting of an individual research project under supervision may be undertaken. A student admitted to either of these special programmes will be assigned a faculty advisor who will assist in developing the programme of study and in guiding the student's academic progress.

Survey Science Programme

In 1972, Erindale College inaugurated a 20-course Specialist Programme in Survey Science that is unique in Ontario and one of only four professional surveying programmes in Canada. This Programme fulfills the academic requirements of the Association of Ontario Land Surveyors and, with the exception of some specific requirements of other associations, generally meets the academic basis needed for professional registration in other provinces and by the Board of Examiners for Canada Lands Surveyors. Students must, of course, determine the specific requirements that apply in other jurisdictions.

Overall, the Programme provides a sound education for the practice of all aspects of land, geodetic, photogrammetric, hydrographic and engineering surveying.

Full details of courses and other matters related to the Programme are given under the heading "Survey Science" in Courses and Programmes and Course Descriptions.

Other Programmes

Study Elsewhere Programme

Chairman of Committee: Professor L.R. Garshowitz
Secretary of Committee: E.M. Ishibashi (978-4060)
Room 1006, Sidney Smith Hall

The Study Elsewhere Programme is designed to allow students to pursue their discipline of concentration at another university, normally outside of North America, for one academic year. The Programme also provides for study in Quebec or Mexico. It is intended to enhance the university experience of each participant through learning from scholars at other institutions and through living in a new and different milieu.

Information meetings for students intending to study elsewhere in 1987-88 will be held at the International Student Centre, 33 St. George Street at 4:15 p.m. as follows:

October 20: All programmes (except groups meeting Oct. 21, 27 and 28)
October 21: Israel, Japan - Kwansei Gabuin Exchange Programme, Spain - Granada Programme
October 27: France - Aix-en-Province Programme
October 28: Québec - Université Laval Programme

New students considering study elsewhere in their Third Year are invited to attend an information meeting at the International Student Centre at 4:15 p.m., February 23, 1987.

Eligibility

Arts and Science degree students with standing in nine to eleven courses for degree credit may apply. Such students should be pursuing a Specialist or Major programme (i.e. at least three of the qualifying courses should be in a given Department and at least two of the courses taken with the Programme should be for the same Department). The applicants must achieve an overall grade point average of at least 2.5 in the last five courses completed by the Spring of the year of application, as well as satisfy any departmental requirements over and above this Faculty minimum.

The Programme

Candidates are expected to enrol in a programme equivalent to five University of Toronto courses: credit will be allowed in no more than five courses. Students may also distribute their courses over the Winter Session and, during either the preceding or following summer, at a Summer Session held at Toronto or Siena. Students normally select Toronto courses which they take independently at the host university with general supervision from the faculty members of this University. Students must make arrangements for such supervision with the appropriate Departmental Advisor(s) before leaving Toronto. The instructor of each course will evaluate the studies on the basis of term work and/or examinations held in Toronto late in August. Alternatively, the staff of the host university may be involved in evaluating the student's performance. Each student is then responsible for having the host university submit either an official transcript or the recommendation of his tutor(s) to the Committee on Study Elsewhere for consideration for transfer credit.

It is assumed that participants will return to Toronto to continue their studies for a Four-Year degree; students may choose, however, to receive a Three-Year degree, provided that prior to departure they arrange to be examined by University of Toronto instructors on the completion of their studies and to be awarded marks and grades in University of Toronto courses. Students who are evaluated by the host university are not eligible to receive a Three-Year degree. The Committee on Study Elsewhere cannot require Departments to examine students if such is not a departmental practice; students should obtain information regarding any departmental policy in this respect. The names and telephone numbers of Departmental Advisors for Study Elsewhere are available in the Study Elsewhere booklet. The departments of East Asian Studies, French and Near Eastern Studies provide further information in the departmental handbook.

Application Procedures

In the Fall Term, students who will have completed the required number of courses by the end of the Session should seek advice from the appropriate Department(s) concerning the choice of a host university and an appropriate programme of study which will include the departmental requirements for specialization. In September, information booklets and application forms will be available from the Faculty Office and Departmental Advisers. Applicants must obtain approval of the Departmental Adviser(s) for Study Elsewhere on their application forms, and submit them at the Faculty Office, Sidney Smith Hall, Room 1006 by February 15. Provisional decisions are made by the end of March, and notification regarding final acceptance is issued after the results for the Winter Session have been determined.

Participants must pay a maintenance-of-registration fee ($178.00 in 1985-86) to the Office of the Comptroller and register with their College Registrar before leaving Toronto. They are also responsible for tuition at the host institution. Participants in the Aix-en-Provence and Granada Programmes do not pay the maintenance-of-registration fee. In 1985-86, participants in the Aix-en-Provence Programme paid $729.00 to the University of Toronto and $400.00 to the Univer-

sity of Provence (Aix-Marseilles). Participants in the Granada Programme will pay full fees for five courses (less the incidental fees), a cost recovery fee of $250.00 to the University of Toronto and $150.00 to the University of Granada.
Under present awards regulations, participants may apply for various forms of Provincial assistance, and should consult the College Awards Officer concerning other awards and bursaries.

Responsibilities of the Student

Although many Departments are able to offer detailed advice, it should be clearly understood that the final responsibility for all practical aspects of the programme rests entirely with the student. Neither the Faculty nor the Departments are responsible for such matters as obtaining travel documents and reservations, finding suitable lodgings, and registering at the host university. Students are warned that many foreign universities have very early deadlines for applications.

Regulations for Attendance and Withdrawal

Students are expected to spend one Winter Session at the host university, and may be required to furnish proof of registration for the appropriate length of time at the institution(s) shown in the application form (e.g. by registration card or student book). If forced to interrupt their study, they may return to the University of Toronto, up to the end of the third week of classes in the First Term, pay the regular fees and enrol in such courses as are available. Those who return at a later date must petition through their Registrar, stating the reasons for the interruption of their studies and requesting permission for late registration and enrolment. Up to the date specified in the Calendar, students may withdraw from the programme without academic penalty; after this date, they must petition through their Registrar.

6 Course Descriptions

In this calendar, courses are designated by their credit value as follows:

Y - full credit course
H - half credit course

To determine the periods of instruction, refer to the *Timetable and Registration Instructions* where the following course suffixes apply:

A — full course given in the *first* term of a session
B — full course given in the *second* term of a session
F — half-course given in the *first* term of a session
H — a half-course extending over *both* terms of a session
S — half-course given in the *second* term of a session
Y — full course extending over *both* terms of a session
Z — course for which no credit is given

In the Winter Session course duration is:
Y & H courses 26 weeks
A, B, F & S courses 13 weeks

Total hours of instruction are indicated by codes at the end of the course description e.g.:
52L — 52 lecture hours
26P — 26 laboratory or studio hours
52S — 52 seminar hours
26T — 26 tutorial hours

Symbols Used in Course Description and Programme Requirements

PI Permission of instructor required to enrol
(I) Open to first-year students (shown after course number)
(G) Course available only on the St. George Campus

Comma(,) semi-colon(;) ampersand(&) or the plus sign(+) mean AND
Solidus symbol(/) means OR.

Faculty Advisor: Professor J. Melbye

Anthropology is the study of human biology and culture and the interaction between the two. *Physical Anthropology* focuses on human evolution and their nearest primate relatives, revealed by fossil remains, and on the constitution, physiology and variation of living and dead populations. *Cultural Anthropology* is the study of the way of life of peoples throughout the world: technologies, economies, societies, languages, and value systems; the functional interrelationships of these; and the relationship between culture and environment. Physical remains of the activities of populations no longer extant (e.g., habitations, tools, food remains) are investigated by archaeological techniques to reconstruct the cultures of the past and to trace their development from earliest times. Conclusions are drawn about the interaction of cultural and physical processes.

The Anthropology programme offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods of physical and cultural anthropology and to involve them in the research programmes of the department. Students planning an anthropology concentration should consult faculty members for advice. Anthropologists are employed as faculty in universities and colleges, as researchers in museums, and by government. For additional information see *Anthropology as a Career* by Wm. C. Sturtevant and *The Study of Anthropology* by Morton Fried, available at the Erindale College Library.

The following Anthropology courses are considered as Science courses: ANT203Y, 228H, 229H, 231H, 328H, 330H, 332Y, 334Y, 336H, 338Y, 339H, 430Y, 433H, 434H.

NOTE: Consult timetable for current offerings.

Please see Section 5 for details of Programme Requirement.

ANT100Y Introduction to Anthropology
Anthropology is the global and holistic study of human biology and behaviour. This course is a survey of anthropology which includes five subfields: applied, archaeology, linguistics, social/cultural, and physical anthropology. The material studied is directed to answering the question: what is it to be human? [52L, 26T]

ANT201Y(I) North American Prehistory
A survey of culture, history and process from the first appearance of people in North America until the coming of the Europeans. Regional adaptations of prehistoric North American populations are explored. [52L]

ANT203Y(I) Physical Anthropology
A survey of the field of physical anthropology. Topics will include human evolution and palaeontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation. [52L, 26T]

ANT204Y(I) Social and Cultural Anthropology
A general introductory course emphasizing social and political organization, economics, and the development of theory. Specific cases of social dynamics are drawn from both traditional and contemporary societies. [52L, 26T]

ANT207H(I) Introduction to Ethnographic Field Techniques
Recommended for those who may specialize in anthropology. Oriented around student projects; covers multiple aspects of field and research methodology (problem design, interviewing, record-keeping, quantitative analysis, etc.). [26L]
Offered in alternate years.

ANT209Y(I) Religious Behaviour and Systems of Thought
A comparative view of myth, ritual and philosophical systems with emphasis on the religion of non-literate peoples. [52L, 26T]
Offered in alternate years.

ANT210Y(I) The Anthropology of Art
Comparative approaches to art and aesthetics in world cultures and the meaning and function of art in specific cultural contexts. [52P]
Offered in alternate years.

ANT212Y(I) Traditional and Contemporary African Cultures
Survey of traditional African cultures and institutions, and the changes involved in the current movement toward industrialization. [52L]
Offered in alternate years.

ANT216H(I) Peoples of Oceania
Peopling of the Pacific Islands emphasizing the cultures of Polynesia. [26L]
Recommended Preparation: ANT100Y

ANT226Y(I) Old World Prehistory
The archaeology of the varieties of human lifeways from the first appearance of human beings to the appearance of extensive written history. Topics to be covered include regional adaptations of prehistoric cultures in Africa, Asia, Europe and Oceania, the origins of agriculture, peopling of Australia and the New World, evolution of technology, the evolution of states and archaeological methods. [52L]

ANT228H(I) Archaeological Fieldwork
Recommended for those who may specialize in anthropology. Practical field experience on a prehistoric archaeological site during the last two weeks of August and weekly evening meetings until December. Note that although the fieldwork itself occurs during the summer, the course continues into the Fall Term [70P].
Prerequisite: P.I.

ANT229H(I) Archaeological Laboratory Analysis
Analysis and description of archaeological material. [13L, 26P]
Prerequisite: ANT228H, P.I.

ANT231H(I) Laboratory Methods in Physical Anthropology
Recommended for those who may specialize in anthropology. The student will be guided in basic laboratory procedures on specific topics as they are discussed in the survey course. [26P]
Corequisite: ANT203Y

ANT241Y(I) Indians of North America
Survey of native cultures and discussion of the role of environmental and historical factors. [52L]

ANT301H Visual Communication
Major approaches to the study of visual communication are dealt with. Bodies of visual materials, including documentary, entertainment and commercial, are analysed in terms of social and cultural contexts. [39P]
Prerequisite: ANT100Y, P.I.
Offered in alternative years.

ANT302H Advanced Visual Communication Projects
Emphasis is on the use and application of basic audio-visual resources in documenting social process. Projects may involve the use of still, movie, video-tape filming, tape recording and archival sources. [39P]
Prerequisite: ANT301H, P.I.
Offered in alternative years.

ANT304H Change in Canadian Indian Societies
A seminar course examining the application of such concepts as "acculturation", "adaptation", etc. to Canada's changing Native population. [26L]
Prerequisite: ANT204Y/241Y, P.I.
Offered in alternate years.

ANT305Y Technology, Society and Culture
The role of technology in social and cultural change and adaptation, including an introduction to basic techniques and their historical development. [78P]
Prerequisite: P.I.
Offered in alternate years.

ANT319H Problems in the Study of North American Indians
Discussion oriented review of the history of the study of North American Indians and the contributions of prominent explorers, geographers and anthropologists. Survey of the literature emphasizing research opportunities; individual research on a topic chosen in consultation with the instructor; ANT397H may be taken concurrently to accommodate ambitious research papers. [26L]
Prerequisite: ANT241Y
Offered in alternate years.

ANT324H Archaeological Interpretation
A survey of methods and ideas about the reconstruction of the past from the archaeological record including subsistence, population, social organization, religion, settlement plan and organization, etc. [26T]
Prerequisite: ANT228H, 201Y/226Y, P.I.

ANT327H Origins of Food Production
The history of food production in the Old and New World. Survey of plants and animals used and traditional agricultural techniques. [26L]

ANT328H Advanced Archaeological Fieldwork
Conducted concurrently with ANT228H. Instruction in archaeological field techniques, laboratory preparation, supervision of field and laboratory work. [26P]
Prerequisite: ANT228H, P.I.

ANT330H The Biology of Sexual Differences
An exploration into the bases of human sexual differences, considering both genetics and environment. [26L]
Prerequisite: ANT203Y/P.I.
Offered in alternate years.

ANT332Y Human Origins
A survey of human palaeontology and the evolutionary stages through which man passed in becoming *Homo sapiens*. [52L, 26P]
Prerequisite: ANT203Y

ANT334Y Human Osteology
Includes the method and technique of recovering, preserving, recording and analysing skeletal remains. The human skeleton will be studied in detail, and practical experience will be offered in the analysis of a skeletal population. [26L, 52P]
Prerequisite: ANT203Y/P.I.

ANT336H Human Heredity, Evolution and Variation
The principles of human population genetics, evolution, and diversity are related to current events. [26S]
Prerequisite: ANT203Y, 231H, P.I.

ANT338Y Primate Biology
An introduction to the biology of non-human primates, including the study of soft skeletal anatomy of representatives of different taxa of extant primates. [78P]
Prerequisite: ANT203Y, P.I.
Offered in alternate years.

ANT339H Human Adaptability
A survey of the nature and range of biological variation in modern man. [26L]
Prerequisite: ANT203Y/P.I.

ANT343Y Social Anthropology of Gender
Various theoretical approaches to the study of sex roles in traditional, modernizing, and industrial societies. [26L]
Exclusion: ANT343H
Prerequisite: ANT100Y
Offered in alternate years.

ANT397H Independent Study
Supervised reading in selected anthropological topics. [T]
Prerequisite: Permission of Faculty Advisor

ANT398Y Independent Reading
Supervised reading in selected anthropological topics. [T]
Prerequisite: Permission of Faculty Advisor

ANT399Y Independent Research
Supervised research in anthropology. [T]
Exclusion: ANT430Y
Prerequisite: Permission of Faculty Advisor

ANT430Y Special Problems in Physical Anthropology
Supervised independent research in Physical Anthropology for students requiring science credit. [T]
Exclusion: ANT399Y
Prerequisite: P.I.

ANT432H Special Seminar in Anthropology
A research oriented seminar with topics that may vary from year to year depending on special interests of staff and students. [T]
Prerequisite: P.I.

ANT433H Palaeodemography
The study of prehistoric human population. The course will explore aspects of mortality and life span in relation to age and sex ratios of human populations. [26S]
Prerequisite: ANT334Y/P.I.

ANT434H Palaeopathology
The study of diseases of ancient populations, and the detection and interpretation of human skeletal pathology. Four facets are: 1) the comparison of populations, 2) the influence of disease on culture, 3) the temporal and geographical distribution of diseases, 4) clinical uses of the data. [26S]
Prerequisite: ANT334Y/P.I.

ANT490Y Seminar on the History of Anthropological Theory and Method
[52L]
Prerequisite: P.I. Offered in alternate years.

ANT499Y Advanced Independent Research
For students whose original research is leading toward a publishable report. [T]
Prerequisite: Permission of Faculty Advisor

APPLIED MATHEMATICS

(See Mathematics)

ASTRONOMY

APM251Y Applied Mathematics I
Ordinary differential equations of the first order. Higher order linear differential equations and systems, infinite series, Laplace transform, Lagrangian dynamics. Applications. [52L, 26T]
Prerequisite: MAT132Y(C or better)/138Y
Corequisite: MAT238Y

APM311H Partial Differential Equations
Partial differential equations of applied mathematics, mathematical models of physical phenomena, basic methodology. [26L, 13T]
Exclusion: APM351Y, 331H, 346H
Prerequisite: MAT233H/MAT238Y, 214H

APM351Y Applied Mathematics II
Hyperbolic, parabolic, elliptic partial differential equations, separation of variables, eigenfunction expansions, integral transforms, Green's functions, examples drawn from physics and engineering. [52L, 26T]
Prerequisite: APM251Y

Faculty Advisor: Professor John R. Percy

Astronomy, of all the sciences, is perhaps the most wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and universe; the origin of life on earth and elsewhere; the behaviour of matter in varied environments and, in general, the influence of the universe on man's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education. With this in mind, we offer courses of interest to every student at Erindale. Three of these are introductory courses. AST100Y is a course in which students can learn about the universe even though they do not have a scientific bent. The course has no prerequisite, is largely descriptive, and covers the full range of astronomical topics. AST200H is also designed for students whose principal interests lie outside the sciences, particularly students who wish to limit themselves to a half course. This course presents up-to-date topics in some detail, and answers often-asked questions. Since this course is given *in the evening*, it is of particular interest to part-time students. For students with a scientific interest and background, AST120Y provides a deeper insight into the physical nature of planets, stars and galaxies, and also provides some understanding of the tools and methods used by the astronomer.

Courses of a more specialized nature are also available. AST251H is a unique interdisciplinary course which examines the broad topics of the nature of life, its origin and evolution on earth, and its possible existence elsewhere in the universe. It is intended for students who have some background in the behavioural, biological or physical sciences, either in grade 13 or in university. We also recommend EPS237H as an excellent introduction to planetary astronomy.

Students who wish to take a major or specialist programme in Astronomy and Astrophysics should consult the Astronomy Faculty Advisor at Erindale, as early as possible during their first year.

Please see section 5 for details of Programme Requirement.

AST100Y Introduction to Astronomy
A general survey of modern astronomy which gives a descriptive treatment of the nature of planetary and stellar systems and the present conception of the structure of the universe. This course is intended for students with no science background or those who do not intend to specialize in science. It is not open to students who are currently enrolled in or have completed a 100 or higher series course in physics or a 200 or higher series course in chemistry. [52L, 26T]
Exclusion: AST120Y/200H

AST120Y A Survey of Astronomy and Astrophysics
A general survey of astronomy in which concepts in basic physics are applied to a treatment of the solar system, stars and stellar systems, and the structure of the universe. This first-year course is intended for students who already have some background in science or those who are currently enrolled or in the future will be enrolling in science courses. [78L, 26T]
Exclusion: AST100Y/200H
Prerequisite: Grade 13 Mathematics R & F, Grade 13 Physics

AST200H(I) The Evolving Universe
A topical course in astronomy designed for students in disciplines other than the sciences. The emphasis will be on fields of current interest in astronomy with the aim of interpreting recent and forthcoming developments. This course is not available to students who are enrolled in or have completed a 200 or higher series course in physics or chemistry. Contributes to Science credits for distribution purposes only, and not to B.Sc. [26L]
Exclusion: AST100Y/120Y

AST251H(I) Life and the Universe
(Formerly AST250Y)
The course examines several questions of broad relevance to the physical and biological sciences: the origin of the chemical elements; the formation of simple and complex molecules in astronomical environments; the origin, nature and evolution of planetary systems; the origin and nat-o ure of life and life processes; the search for extraterrestrial life through planetary exploration ando interstellar communication. [26L]
Exclusion: NEW251H(G)
Recommended preparation: A basic knowledge of physical and/or biological science at the grade 13 level or beyond
Offered in alternate years.

AST425H Research Topic in Astronomy
Consists of a research report by the student in consultation with an individual staff member in the department. Students must enrol with the faculty advisor of the department on the Erindale Campus.
Corequisite: AST420Y(G)

Faculty Advisor: Dr. F. Szeicz
Biology is the science of living organisms - their kinds and relationships, origins and evolution, structure, development, and functions. Biology relates to such major human problems as starvation, overpopulation, conservation, pollution, and to the whole field of medicine and disease.
Living organisms may be studied from a variety of viewpoints such as biochemical, physiological, ecological, genetical, taxonomical, structural, and developmental, and from a variety of organizational levels from populations and individuals through organs, tissues, cells and organelles, down to molecules.
Botanists and zoologists at Erindale cooperate closely in organizing courses and programmes in Biology which stress the relationships of living organisms in terms of structure, form, function and environment at many levels of organization.
All students must officially enrol in a three or four year programme at the beginning of their second year at Erindale. These programmes have varying first year requirements which should be checked before the student chooses first year courses.
Various options are available to students of Biology at Erindale. Students can elect to take a 4-year Specialist degree or a 3-year Major degree in Biology by following the programmes outlined earlier in the calendar. By combining a Major Programme in Biology with a second Major Programme in another discipline, the student may qualify for a 4-year "double Major" degree. Another possibility is the combination of Biology and Psychology courses designated under the interdisciplinary programme in Animal Behaviour. Finally, there are 3-year and 4-year programmes in Environmental Science offered jointly with the Geography Departmento
BIO101Y is a course designed primarily for non-Biology specialists and is not a requirement in the Biology programmes. It does not, however, exclude students from entering a Biology programme in their second year, and may be considered as a Biology option in the Specialist, but not in the Major programme. It is also an accept-o able pre-medical or pre-dental course.
First year students intending to major or specialize in Biology may choose to enrol directly in 200-level Biology courses, some of which, the so-called "core courses" (BIO 201-205), are *required* in both the major and specialist programmes. These core courses may be taken in any order. First year students should select one full course equivalent in the area(s) that interest them most, in order to gain early access to more advanced courses in those subjects. The remainder of the core courses can be taken in later years.
Other Biology courses open to First Year students are JBG 230Y and BIO 235Y.

The new programmes have been made more flexible than the old ones by increasing the number of options in both the Biology and non-Biology requirements, particularly for the Specialist Programme. We recommend that students take at least one advanced course from each of four major areas of Biology because we feel that most students will find it advantageous in the long run to be more broadly trained than their current interests dictate.
Please see section 5 (courses and programmes) for details of Programme Requirements. Students who began their Biology Programme in 1984-85 or earlier should consult the *Transitional Requirements* for Biology Students in this section.
Enrolment in many 200 level and 300 level courses is limited.

BIO101Y The Study of Life
The diversity of life forms and processes is analysed at the molecular, cellular, organismal, and community level of organization. A mix of lectures, special topic presentations, films, field trips, and laboratory exercises provides a broadly-based view of modern Biology. The course is an acceptable prerequisite for professional programmes. [78L, 39P]
Exclusions: previous or concurrent University BIO courses (JBG230Y and 235Y excepted).

BIO201Y(I) Diversity of Organisms
A survey of the major groups of organisms including bacteria, fungi, protista, plants and animals. The structure, life history and special adaptations of representatives are examined including discussions of the function of cells, tissues and organs. [52L, 78P]
Prerequisite: Grade 13 Biology/BIO100Y/101Y

BIO202H(I) Cell Biology
An introduction to the dynamics of cell structure and function, with emphasis on the similarities and differences of plant, animal and microbial cells. Topics include: the structure and function of macromolecules, ribosomes, membranes, nuclei, mitochondria, chloroplasts, lysosomes, cytoskeleton and other cellular constituents. In the laboratory, students will learn some current techniques of cell biology, while familiarizing themselves with practical aspects of lecture subjects. [26L, 39P]
Prerequisite: Grade 13 Biology/BIO100Y/101Y

BIO203H(I) Introductory Genetics
Introduces the student to genetics with examples drawn from prokaryotes and eukaryotes to illustrate the basic principles of Mendelian inheritance, the molecular structure of the gene, mechanisms of gene action and regulation, and population genetics. Practicals will involve directed experiments illustrating these principles. [26L, 39P]
Prerequisite: Grade 13 Biology/BIO100Y/101Y

BIO204H(I) Introduction to Physiology
How plants and animals work. Follows food from ingestion through energy production to the work of the living system and finally excretion of waste. Topics covered include nutrition, digestion, circulation, respiration, photosynthesis, hormones, muscles and nerves. [26L, 39P]
Prerequisite: Grade 13 Biology/BIO100Y/101Y

BIO205H(I) Ecology
An introduction to ecological principles emphasizing the structure and dynamics of populations, communities, and ecosystems. Practical sessions stress field work in the vicinity of the College. [26L, 39P]
Prerequisite: Grade 13 Biology/BIO100Y/101Y

JBG230Y(I) Man and Environment
Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Problems of current environmental concern - land use, material and energy resources, and pollution are considered and illustrated by case studies from different parts of the world. [52L, 26T]
Exclusion: JBG130Y

BIO235Y(I) Field Biology
A field and laboratory course to acquaint the student with plants and animals in the local environment. Collection techniques and observation are emphasized in the field. Identification of major groups of animals and plants is studied in the laboratory. Students are required to make a major collection of a group of organisms. It is advantageous to commence this collection in the summer prior to taking this course. Further information and instruction can be obtained from the instructors. This course is open to first year students. [52T, 78P]

BIO300H Terrestrial and Freshwater Biology
This course will be offered at the Leslie M. Frost Natural Resource Centre, near Dorset, Ontario. Emphasis will be on principles and methods in plant and animal ecology, and gaining familiarity with local flora and fauna. Terrestrial and freshwater ecology will be studied. Opportunity will be provided for students to undertake projects of their own. Students are selected on the basis of their academic background, grades, and career goals. The course is given in the two week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Application forms are available from Professor N.C. Collins and should be returned to

the Zoology Undergraduate Secretary, St. George Campus by March 31st. Students selected will be notified promptly.
Prerequisite: BIO100Y/205H
Enrolment limited.

BIO301H Marine Biology
A field course in Marine Biology, at St. Andrews, New Brunswick, consisting of informal lectures and seminars with intensive field and laboratory work. Different marine habitats are examined in detail and the animals and plants associated with them are classified. Students carry out projects in which they are encouraged to develop their own ideas and interests. Lectures on special topics are given by the scientific staff of the Biological Station. Students are selected on the basis of their academic background, grades and career goals. The course is given in the two-week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Application forms are available from Professor N.C. Collins.
Prerequisite: BIO100Y/205H
Enrolment limited.

BIO302H Arctic Ecosystems
Summer field studies at Churchill, Manitoba, of approximately two weeks duration dealing with physical and biological aspects of arctic ecosystems. An individual research project is an essential part of the course. Details of the course will be announced in mid-January and students must apply to Prof. N.C. Collins, the field course co-ordinator, by mid-March.
Prerequisite: BIO205H/230H and/or approval from Prof. J. Svoboda, Biology Department, Erindale College.

BIO304H Neurobiology
An expanded examination of the physiology of nervous systems. The course will investigate the electrophysiological properties of neurons and muscles, the role of the semipermeable membrane in bioelectricity, and the organization of neural circuits into higher-order processing systems (i.e. the central nervous system). Invertebrates and non-human vertebrates will be studied with particular attention to the evolution of nervous systems from nerve nets to brains. [26L, 39P]
Exclusion: BIO321Y
Prerequisite: BIO100Y/204H/specific permission of the instructor

BIO310H Physiology of Regulatory Systems
This course will examine the sub-organismal, physiological responses of an animal to various external stresses imposed by fluctuations in the environment. Topics covered will include the body's internal control of temperature (thermoregulation), salt and water balance (osmoregulation), nutrient levels (digestion and excretion), as wellhas the neural and hormonal controhof these systems. [26L, 39P]
Exclusion: BIO321Y
Prerequisite: BIO100Y/204H/specific permission of the instructor

BIO311H Biology of Forest Plants
The flowering plants of the North Temperate forests have evolved a wide range of strategies, both vegetative and floral, for success in this environment. The course will examine these strategies, as well as tracing their roles in producing the interdependent nature of the understorey plant-animal-fungus community. Topics to be studied will include: vegetative growth strategies, pollination biology, plant-pollinator relationships, plant breeding systems, mycorrhizal fungi, life cycles of native forest pollinators, floral structure and function, seed dormancy and germination, and plant demography. [26L, 39P]
Prerequisite: BIO100Y/201Y/P.I.

BIO312H Plant Physiology
The principal physiological processes, and the influence of environmental factors on them, will be studied in plants. Topics will include photosynthesis, water relations, mineral nutrition, translocation, respiration, general metabolism, and growth. These topics will be related to agriculture, ecology and biotechnology.
[26L, 39P]
Exclusion: BIO320Y
Prerequisite: BIO100Y/204H/specific permission of the instructor

BIO314H Cytogenetics
Using the term Cytogenetics in its broadest sense, the course will examine aspects of biology which contribute to our understanding of the structure and behaviour of chromosomes. Topics will include an in depth study of meiosis, molecular cytogenetics, chromosome aberrations and evolution. Practicals will stress both experimental work and discussion sessions.
[26L, 39P]
Prerequisite: BIO203H/340Y

BIO315H Advanced Cell Biology
This course will examine in depth specific topics introduced in BIO202H and introduce the students to many exciting new topics. Areas of focus may include membrane structure and function, cellular communication, the cytoskeleton, cell movement and the structure and function of selected organelles. The lectures will include experimental data and analyses to reveal how hypotheses in the field are generated and experimentally tested. In the laboratory exercises, students will be introduced to commonly employed techniques such as cellular fractionation, polyacrylamide gel electrophoresis, spectrophotometry and radioisotopic labelling. [26L, 39P]
Exclusion: BIO241Y
Prerequisite: BIO202H

BIO316H Field Course in Ecology
Students may choose from a variety of field courses offered through a cooperative arrangement among ecologists at seven Ontario universities. Most courses involve a two-week period at a field site in early May or late August. A fee for room and board is usually charged over and above tuition. Lists of courses available are posted outside Room 3032 in January of each year, and sign-ups are finalized by mid-March. See the Erindale coordinator, Professor N.C. Collins, for further details.
Prerequisite: permission of coordinator

BIO318Y Animal Behaviour
An introductory overview of the behaviour of animals presented from a zoological perspective for biology specialists. Behaviour is examined as the evolved result of interaction both with other animals, such as predators and potential mates, and with abiotic factors such as temperature and light. Other topics include behavioural genetics, development, communication, motivation and the control of behaviour by physiological mechanisms. [52L, 78P]
Prerequisite: BIO201Y/251Y

BIO319H Invertebrate Zoology
Comparative morphology of the major invertebrate phyla: protozoans, coelenterates, flatworms, nematodes, molluscs, annelids, echinoderms, and arthropods. Students learn to recognize the larger taxa within these phyla and they discover design differences in the organ systems (digestive, locomotory, reproductive, etc.) of these animals. Special attention is given to those adaptations of parasitic and pest invertebrates that contribute to their impact upon human welfare. [26L, 39P]
Prerequisite: BIO201Y/251Y

BIO330Y Plant Ecology
The relationships of plant species, populations, and vegetational complexes at the sociological, environmental, and eco-physiological levels. Practical field work, laboratory studies, and experimentation are included. The course provides a background for practical training in conservation and environmental research. [52L, 78P]
Prerequisite: BIO205H/230H
Recommended preparation: BIO235Y

BIO332Y Freshwater Biology
A functional analysis of aquatic ecosystems. Lecture topics include: physical environments of lakes and streams; determinants of productivity of algae, zooplankton, fish and benthos; determinants o species structure of each of these groups; the processes of eutrophication and acidification. In the laboratory, aquatic measurement techniques and taxonomy and ecology of local plants and animals will be emphasized. One two-day and two one-day field trips required. [52L, 78P]
Prerequisite: BIO205H/230H
Enrolment limited.

BIO334H Ecological Entomology
Initially, the contribution of the structure and function of insects to the overall success of the class Insecta will be examined. Then environmental factors such as weather, food, parasites, predators, etc., influencing population growth and the consequent impact of insects on their environment will be discussed. Finally in the laboratory, the recognition of the life history stages and characteristic damage of a number of potentially important forest insect species will be stressed. [26L, 39P]
Prerequisite: BIO205H/230H

BIO335H Mycology
A study of the biology of fungi with emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory sessions will include the collection, culture, and identification of a wide variety of fungi. In addition, several experiments illustrating important aspects of fungal physiology and development will be performed in the laboratory. [26L, 39P]
Prerequisite: BIO100Y/201Y

BIO352H Developmental Biology
Begins with the study of the way eggs and sperm are formed and how they interact during fertilization. Subsequently an analysis of the events of early development is detailed. Finally, selected topics of special interest to Developmental Biologists, such as regeneration, metamorphosis, pattern and polarity, and cancer are studied. The frequent use of live material in the laboratory exercises enables students to comprehend the dynamic aspects of the development of organisms. [26L, 39P]
Prerequisite: BIO202H/241Y
Corequisite: BIO315H

BIO353H Plant Developmental Biology
Developmental systems drawn mainly from plant life forms and microbes are studied. Tissue and cell culture techniques are emphasized as are applications of biotechnology to agriculture. Topics such as the hormonal control of growth and development, photoperiodicity, circadian rhythms, and environmental stimuli are studied as they influence development. Attempts are made to assemble simple rules which govern more complex patterns of development. [26L, 39P]
Prerequisite: BIO202H/241Y/312H

BIO354H Vertebrate Form and Function
A continuation in greater depth of vertebrate topics begun in BIO 201Y/251Y. The design and adaptive consequences of vertebrate structure are examined. Mechanisms of locomotion, body support, feeding, transport, gas exchange and sensory perception are compared at the organ level. Students conduct individual laboratory projects on selected vertebrates. [26L, 39P]
Prerequisite: BIO201Y/251Y
Enrolment limited.

BIO355H Taxonomy of Vascular Plants
A survey of the flora of Ontario. The emphasis of the course is on the practical identification of plants both in the herbarium and in the field. [65P]
Prerequisite: BIO201Y/235Y

BIO356H Major Features of Vertebrate Evolution
The evolution of the vertebrates as evidenced by the fossil record. Special emphasis will be placed upon the origin and adaptive radiation of major groups including amphibians and reptiles. Practical sessions will include the study of fossils, and techniques of collection and preparation. Occasionally laboratories will be held at the Royal Ontario Museum. [26L, 39P].
Prerequisite: BIO201Y/251Y
Enrolment limited.

JBP359Y Sociobiology: Biological Bases of Social Behaviour
(Taught jointly with Psychology)
Concepts from ethology, ecology, and population biology will be introduced and applied to the understanding of the evolution and biological function of social behaviour. Topics will include altruism, aggression, social spacing, dominance, sex, parental investment and care, social symbioses, and the evolution of life histories. Emphasis will be placed on the complex social systems of insects and mammals. Laboratory sessions will involve field observations, demonstrations, and preparation of individual projects. [52L, 78P]
Prerequisite: BIO100Y/201Y/203H, PSY100Y, P.I.

BIO360H Biometrics I
An introduction to the basic principles and procedures of biological statistics. Topics will include probability, sampling theory, descriptive statistics, estimation, comparison of samples and analysis of frequencies. Collection and analysis of biological data will be done in the laboratory. Students are advised to combine this course with BIO361H for a complete introduction to Biometrics. [26L, 39P]
Exclusion: Any 200 level course in Statistics

BIO361H Biometrics II
A sequel to BIO360H in which additional topics in biological statistics are discussed. Regression, experimental design, non-parametric statistics, and a variety of analyses of variance are included. Collection and analyses of biological data will be done in the laboratory. [26L, 39P]
Exclusion: Any 200 level course in Statistics
Prerequisite: BIO360H

BIO370Y Microbiology
In depth discussion of microbial structure and ultrastructure; physiology and nutrition; growth and cultivation; nature of viruses (bacteriophage and a limited survey of animal viruses and their properties); the role of micro-organisms in medicine, industry, agriculture, immunology, genetics, and ecology. [52L, 78P]
Prerequisite: CHM135Y/150Y, BIO202H/241Y/270Y
Recommended preparation: CHM241Y, PHY120Y/132Y/140Y, MAT132Y/138Y
Enrolment limited.

BIO371H Virology
Fundamental principles and techniques of animal virology, including methods of tissue culture, virus cultivation and assay, and physiology of virus development, will be dealt with in detail. [26L, 39P]
Prerequisite: BIO202H/241Y, 270Y, CHM135Y/150Y
Corequisite: BIO370Y

BIO375H Modern Approaches to Biotechnology
This course is designed to introduce students to the theory and methodology of genetic engineering utilizing both somatic cell fusion approaches and recombinant DNA approaches. The importance of monoclonal antibodies and the generation of hybridoma cell lines to modern biotechnology will be discussed. [26L, 39P]
Prerequisite: BIO241Y/(202H and 315H), CHM241Y
Corequisite: CHM360Y, BIO370Y
Recommended preparation: MAT132Y/138Y, PHY120Y/132Y/140Y

BIO404H Neuroethology
A study of the interface between traditional physiology and animal behaviour. The following questions are addressed: how nervous systems control an animal's behaviour through regulation of motor activity; how sensory organs monitor environmental change, especially the behaviour of other animals; how the central nervous system integrates sensory and endogenous information to achieve adaptive motor output. [26L, 39P]
Prerequisite: BIO304H/318Y/P.I.

BIO417Y Animal Ecology
Studies in the ecology of animal populations and communities, with emphasis on the following topics: production and population dynamics, energy flow, competition theory, predator-prey interactions, life history strategies, food-web theory, analyses of multispecies data and ecological modelling. Laboratories will include field sampling of natural populations, principles of computer modelling and group discussion of papers from the literature. [52L, 78P]
Exclusion: BIO317Y
Prerequisite: BIO205H/230H
Corequisite: BIO360H

BIO420H Advanced Plant Physiology
Lectures, discussions, and student presentations from the current literature will be used to examine selected topics in plant physiology and development including plant hormones, water relations, morphogenesis, or plant photobiology. Responses to environmental stresses will be emphasized. [26L, 13T]
Prerequisite: P.I., (BIO204H and 312H)/320Y
Offered in alternate years.

BIO424H Biology of Sensory Systems
A comparative approach to sensory physiology in a wide range of animals. The course's analysis of sensory transduction and neural networks will incorporate anatomical, electrophysiological and biochemical aspects. Special attention will be devoted to recent publication in the field of sensory ecology and the evolution of sensory processes. [26L, 13T]
Prerequisite: BIO304H/321Y/P.I.
Offered in alternate years.

BIO430Y World Ecosystems
An investigation of the major biotic communities of the world. Their distribution, composition, structure, productivity and dynamic aspects are considered in relation to environmental influences. Practical experience includes a two week field trip commencing the week before classes begin. Communities in six of the eight major site regions of Ontario from James Bay to Lake Erie will be studied. Course details will be announced in January and interested students must apply by mid-March to Prof. N.C. Collins, the field course co-ordinator. [52L]
Prerequisite: BIO205H/230H, 330Y
Offered in alternate years.

BIO433H Arctic Ecology
The Arctic environment (climate, landscape, frost phenomena) is investigated. The characteristics of soils and plant and animal life are described and studied. Problems associated with increasing human activity in the Arctic are discussed. [26L, 13T]
Exclusion: GGR241Y(G)
Prerequisite: BIO205H/230H/P.I.
Offered in alternate years.

BIO440Y Advanced Genetics
A course designed to familiarize the student with current advances in genetics. Major topics will include: the organization of the nucleus; nuclear cycle; mutation; recombination and fine structure analysis; gene products and the regulation of gene expression; extra chromosomal inheritance. Laboratory sessions will include selected experiments and critical discussions of current literature. [52L, 52P]
Prerequisite: BIO203H/340Y

BIO441Y Electron Microscopy
An introduction to the theory and practice of electron microscopy and its application to the study of the ultrastructure of cells and tissues. [26L, 78P]
Prerequisite: Written permission is required to enrol (See instructor during registration week.)

BIO442H Evolution
The course focuses on current developments in evolutionary theory. Some of the topics that will be covered include: mechanisms of speciation, mimicry, evolution of life history traits and punctuated versus gradual modes of evolution. Students are required to model an evolutionary process for a term project. [26L, 39P]
Prerequisite: BIO203H/340Y

BIO452H Advanced Topics in Cell and Developmental Biology
This course focuses on the current state of affairs in certain areas of cell and developmental biology. Topics such as intercellular communication, cell-to-cell adhesion, cell fusion, morphogenesis and differentiation will be covered. Lectures and seminars will involve critical discussions of recently published research articles. [39L]
Prerequisite: BIO352H, P.I.

BIO455H Developmental Molecular Biology
An examination of recent information on the molecular control of development in eukaryotes. Current ideas on the regulation of nucleic acid biosynthesis (nucleo-proteins, hormones, "specificity factors") will be reviewed for plants, animals, and eukaryotic microbes. An analysis of how current data fit into the theoretical models of gene regulation and development will be made. The course will include student discussions of published research articles. This course is the same as BOT455H(G). Every other week the class meets on the St. George Campus. [13L, 26T]
Prerequisite: (BIO202H and 315H)/241Y, 203H/340Y, P.I.

BIO456H Biosystematics
A consideration of the principles of taxonomy with particular emphasis on vascular plants. Topics to be discussed include the species concept, polyploidy, numerical taxonomy and geographical and ecological variation. Each student will be required to undertake an investigation of the variation found in a selected population of plants. [26T, 39P]
Prerequisite: BIO203H/340Y, 201Y/235Y
Recommended preparation: BIO355H/specific permission of the instructor
Offered in alternate years.

BIO470Y Molecular Biology
To provide a background for students of biology and other sciences for further study in modern biology. The course will deal with microbial and viral genetics; the structure, function, and biosynthesis of nucleic acids and proteins; cell permeability; bioenergetics; regulatory mechanisms in bacteria; modern physio-chemical methods in studies of biomolecules, etc. [52L, 78T]
Prerequisite: BIO370Y, P.I.
Corequisite: CHM360Y

BIO471H Microbial Host-Parasite Interaction
This course deals with the interaction of bacterial pathogens with their respective hosts. The molecular basis of pathogenicity and the various defense mechanisms employed by hosts will be examined in depth. The medical and economic implications of pathogenesis and the role of the environment in mediating pathogenesis will be considered. The host-parasite interactions to be analyzed in this course will include systems where the hosts are animals, plants, fungi, and bacteria. [26L]
Prerequisite: BIO370Y
Recommended preparation: CHM360Y, MPL334Y

BIO480H Biology Research Project I
A research project carried out under the supervision of a staff member. Open to third and fourth year students. May be taken as a summer course. Students undertaking a full year project should enroll in BIO481Y, not BIO480H. Written consent of staff member supervising the project must be obtained for registration. Seminar presentation may be required.
Exclusion: Any research project full course in ZOO, BOT or MPL
Prerequisite: P.I.

BIO481Y Biology Research Project II
Similar to BIO480H except that the project extends over both the fall and spring terms. Seminar presentation may be required.
Exclusion: Any other research project course in ZOO, BOT, or MPL.
Prerequisite: P.I.

BIO482H Biology Research Project III
A second half-course in research designed for students who have already completed BIO480H.
Exclusion: Any previous full course research project in BIO, BOT, ZOO, MPL, or JBG
Prerequisite: BIO480H

JBG491Y Environmental Research Project
Independent research on an environmental topic carried out under the supervision of a staff member whose written consent is required for registration. This project course is open to third and fourth year students. A written report of the research will be required and a seminar presentation may be required.
Exclusion: All other courses in independent research

CHEMISTRY

Faculty Advisor: Professor I.W.J. Still

Chemistry has as its scope of intellectual inquiry the study of the processes by which substances in the inanimate and animate world are changed into other substances, both in nature and in modern industry. From an understanding of the structures and properties of atoms and molecules, changes associated with chemical reactions can be interpreted and predicted and new substances synthesized. Chemistry has a vital role in modern science-based industry and in the development of the improved quality of life and health of our society. It is more and more applied to increasing our understanding of medicine, biology, geology, psychology, metallurgy, astrophysics, and many other branches of science. As a university subject it is becoming increasingly recognized as a sound basis for the kind of imaginative and disciplined thinking that has application beyond science to many other occupations and endeavours. The courses offered in the recommended programmes in Chemistry provide not only a basis for careers in science but a good general education of wide applicability.

Science and technology have been responsible for discoveries and developments of inestimable benefit but these have been accompanied by new hazards and problems, many of which are only now becoming apparent. Some of these are associated with our inability until recently to recognize the finite and exhaustible nature of world resources available to man; others arise from industrialization and overpopulation. Chemistry has an important role in solving the problems of energy conservation, nuclear waste disposal, environmental pollution, famine, and the many other problems of society. Many of the future advances and breakthroughs in understanding will originate from the kind of interdisciplinary research in which chemists trained to solve problems will have to be involved.

Specialist Programmes: The various programmes in Chemistry offered at Erindale College provide a very suitable preparation for those who intend to enter the work force in industry, to teach chemistry in high school (Type A certificate) or to continue into a graduate programme.

Four Specialist Programmes in Chemistry are presently available at Erindale: CHEMISTRY, CHEMISTRY & BIOCHEMISTRY, CHEMISTRY & GEOLOGY, and CHEMISTRY (PHYSICAL CHEMISTRY); the detailed requirements associated with these are listed in Section 5 of this Calendar. The first three years of the BIOCHEMISTRY Specialist Programme may also be taken at Erindale. In addition, a CHEMISTRY MAJOR programme is available for students enrolled for either a three-year or for a four-year degree who wish a strong background in chemistry as part of a more general science programme. The content of each programme reflects the kind of training that is expected of students entering graduate study or other professional work in the area defined by the programme title. It is very important to plan one's programme well in advance and to consult regularly (at least once a year) with the Faculty Advisor. It is particularly desirable to take specific courses in the year of study for which they are designed (e.g., CHM200 courses in Year II); serious timetable clashes are likely to arise if this advice is not followed. In particular, students planning a programme in which chemistry plays a major role are strongly advised to take CHM211H, CHM221H, CHM231H, and CHM240Y in their second year. While some deviations from the Specialist Programmes listed are possible, students should consult the Faculty Advisor *before* departing from the recommended programmes.

A Specialist Programme is not formally required for entry to graduate school in Chemistry but these programmes constitute an excellent preparation for this purpose. They also provide a means of attaining Type A teacher certification for those intending to teach chemistry at high school level. In addition, many of the courses listed provide excellent preparation for students whose main interests lie in the biological or earth sciences.

Please see Section 5 for details of Programme Requirement.

NOTE: The Chemistry, Chemistry and Biochemistry, and Biochemistry Specialist Programmes are about to undergo a major re-structuring which will be implemented one year at a time, beginning with the second year of these programmes in 1986-87. While it is not possible at this stage to provide details of the new third and fourth-year courses, which will not be implemented in any case before 1987-88 and 1988-89, respectively, the following guide to the numbering system which we have adopted for the chemistry courses in the new programmes will probably be of some initial assistance in understanding the changes outlined under each Specialist Programme.

Courses in the CHM-1-series are analytical chemistry.
Courses in the CHM-2-series are physical chemistry.
Courses in the CHM-3-series are inorganic chemistry.
Courses in the CHM-4-series are organic chemistry.
Courses in the CHM-6-or-7-series are biochemistry.
Courses in the CHM-9-series are laboratory courses only.

CHM101Y Modern Physical Science and its Impact on Society
This course is intended for students with no science background or for those who do not intend to specialize in science. It is designed to provide an informative exposure to experimental science and to emphasize the importance of science as an integral part of our culture. Topics will include the structure of matter, the origins of sound and colour, radioactivity and its applications, chemical and physical pollution, and the chemistry and physics of computer chips. [52L, 26T]
Exclusion: Any CHM or PHY 100 series course taken previously or concurrently.

CHM135Y General Chemistry
(Formerly CHM 118Y)
Fall Term: Chemical stoichiometry, behaviour of gases, equilibria, thermochemistry, introduction to atomic and molecular structure, periodic properties of the elements.
Spring Term: Kinetics and mechanisms, applications of the principles of equilibria and kinetics, descriptive inorganic and organic chemistry.
Note: CHM135Y is a sufficient prerequisite for CHM240Y only. For other higher level chemistry courses, a standing of at least 70% must be achieved in CHM135Y. [78L, 33P, 30T]
Exclusion: CHM150Y
Prerequisite: Grade 13 Chemistry and Mathematics (R and F, C)
Corequisite: MAT132Y/138Y

CHM150Y Basic Concepts of Chemistry
Note: All first-year chemistry students must enrol in CHM135Y. Those who qualify may have their registration changed to CHM150Y in the Spring term.
Fall Term: See CHM135Y.
Spring Term: Thermodynamics and electrochemistry, introductory quantum theory and wave mechanics, molecular structure, kinetics and mechanisms, coordination chemistry, introduction to organic chemistry. [78L, 33P, 30T]
Exclusion: CHM135Y
Prerequisite: Grade 13 Chemistry and Mathematics (R and F, C) and a minimum of 60% in the fall term of CHM135Y
Corequisite: MAT132Y/138Y (PHY140Y/132Y/120Y also required for specialist programmes in chemistry)

CHM211H Fundamentals of Analytical Chemistry
A rigorous introduction to the theory and practice of classical analytical chemistry. Development and applications of basic statistical concepts in treatment and interpretation of analytical data. Gravimetric methods: direct and indirect precipitations. Volumetric methods: acid-base, complexometric, redox and precipitation titrations. Introduction to instrumental methods: potentiometry and absorption spectroscopy. [26L, 52P, 13T]
Prerequisite: CHM150Y/135Y (Grade B)/118Y (Grade B)

CHM221H Introductory Physical Chemistry
Equilibrium thermodynamics, Internal Energy, Enthalpy, Entropy, Free Energy, Equilibrium (including Nernst Equation) Chemical Potential and Elementary Solution Theory, Colligative Properties. Kinetics review of order, molecularity, activation energy, chain mechanisms and multiple step mechanisms. [26L, 39P, 13T]
Exclusion: CHM226Y
Prerequisite: CHM150Y/135Y (Grade B)/118Y (Grade B); MAT132Y /138Y
Recommended preparation: MAT214H and 233H. These courses are required for the third year physical chemistry course.

CHM226Y Physical Concepts in Chemistry
This course will provide the physical background to modern chemistry. The laboratory is compulsory and will run on alternate weeks for the full academic year. Tutorials will be offered at the same times in the intervening weeks. Topics covered will include: thermodynamics, colligative properties, phase transitions, chemical kinetics, diffusion, conceptual foundations of quantum theory and spectroscopy. Examples will be drawn that are applicable to a wide range of disciplines, including chemistry, biochemistry, and geology. [78L, 39P]
Exclusion: CHM222Y, 225Y
Prerequisite: CHM150Y/CHM135Y (Grade B); MAT132Y/138Y
Corequisite: MAT214H and 233H are recommended and are prerequisites for CHM326Y
Not offered in 1986-87

CHM231H Introductory Inorganic Chemistry
Brief review of atomic structure; properties of the elements in relation to their position in the periodic table; theories of chemical bonding; structures and properties of ionic and metallic solids; boranes, introduction to the structures, bonding, spectra, and biochemical functions of transition metal complexes. The laboratory course involves a range of synthetic, analytical, and instrumental techniques. [26L, 52P]
Prerequisite: CHM150Y/135Y (Grade B)/118Y (Grade B)

CHM240Y Organic Chemistry I
The fundamentals of organic chemistry appropriate for students who require only a broad background in organic chemistry for their intended field (e.g., biology, pharmacy or one of the professional faculties). The course will also serve an important role as Part I of a two-year sequence for students enrolled in the Specialist Programmes in Chemistry, Chemistry and Biochemistry, or Biochemistry. Synthesis and reactivity of the main classes of organic compounds will be examined from the standpoint of modern theories of reaction mechanism and stereochemistry. The laboratory includes some basic organic techniques and selected examples of simple synthetic reactions.
[52L, 52P(F)]
Prerequisite: CHM150Y/135Y/118Y

CHM314Y Instrumental Analytical Chemistry
Introduction to the basic theory and practice underlying important techniques in analytical chemistry. Techniques discussed will include infrared, UV-visible and atomic absorption spectroscopy; Fourier transform methods; spectrofluorimetry; x-ray fluorescence, neutron activation analysis; mass spectrometry; electron spectroscopy; selective potentiometry, voltammetry and polarography; high resolution gas, liquid and ion chromatography; a brief introduction to microcomputer architecture, communications and applications in the analytical laboratory. Most of the techniques discussed in the course are available for study and use in the associated laboratory. Field trips to observe state-of-the-art equipment and methods are planned.
[52L, 104P]
Prerequisite: CHM215H (CHM226Y recommended)

CHM326Y Physical Chemistry
Quantum mechanics and fundamentals of spectroscopy, intermolecular forces, statistical mechanics and applications to chemical systems, theoretical aspects of reaction kinetics. [78L]
Prerequisite: CHM226Y, MAT233H, 214H/238Y/239Y

CHM330Y Inorganic Chemistry
Introduction to transition elements; theories of bonding in transition metal complexes; complexes of *n*-acceptor ligands; organometallic compounds; organometallic compounds in homogeneous catalysis; thermodynamics of complex formation; mechanisms of reactions of metal complexes; descriptive chemistry of selected transition metals; descriptive chemistry of selected main group metals. The laboratory course covers a wide range of synthetic, analytical and instrumental techniques.
[52L, 104P]
Prerequisite: CHM230H

CHM340Y Organic Chemistry II
The stereochemistry of organic compounds in relation to their physical and chemical properties and to factors affecting rates of reaction. Mechanistic aspects of organic reactions. The application of both stereochemical and mechanistic considerations to the synthesis of polyfunctional organic compounds. [52L, 104P]
Prerequisite: CHM241Y

CHM347H Organic Chemistry of Biologically Important Compounds
The chemistry of selected classes of naturally occurring molecules such as those below, with emphasis on structure, stereochemistry, properties and synthesis. Amino acids, peptides, proteins, carbohydrates, nucleosides, nucleotides, nucleic acids, terpenes and steroids. [26L, 13T]
Prerequisite: CHM241Y
Corequisite: CHM340Y strongly recommended

CHM360Y Biological Chemistry
A lecture course in general biochemistry. Topics include the physical chemistry of proteins, enzyme reaction kinetics and mechanisms, metabolic processes and mechanisms of cellular regulation, bioenergetics, membrane biochemistry and biophysics, molecular genetics and protein biosynthesis. Students will submit a comprehensive term paper based on a research topic of current biochemical interest. CHM360Y is equivalent to BCH321Y(G). [52L, 26T]
Prerequisite: CHM240Y/241Y
(CHM226Y recommended)

CHM371H Techniques in Biological Chemistry
A laboratory course to complement CHM360Y. Experiments are designed to familiarize students with techniques commonly used to study the chemical and physical properties of biological molecules. Topics covered include a wide range of chromatographic methods, the isolation and characterization of subcellular organelles, enzyme purification and kinetics, isolation and characterization of nucleic acids and lipids, and radioisotope methodology. CHM371H is equivalent to BCH371H(G). [104P]
Corequisite: CHM360Y

CHM411H, 412H Topics in Chemistry
These courses will comprise groups of about 26 lectures. The following topics have been offered in recent years and the selection to be offered will depend on enrolments. Generally a minimum of 5 students is required before a topic is given. Interested students should consult the Faculty Advisor before the beginning of term. [26L]
Theory of Optical Spectroscopy (equivalent to CHM424H(G))
Theory of radiation, time dependent perturbation

theory, transition probabilities, oscillator strength, simulated emission, atomic spectra, UV, visible, IR and Raman spectroscopy.
Corequisite: CHM326Y

Non-Aqueous Solution Chemistry
The range of non-aqueous systems, their properties and use as preparative media; classification of non-aqueous solvents; general theories of acid and base; experimental methods in non-aqueous systems and a detailed examination of specific examples, including HSO; super acid media; liquid NH; hydrogen halides; dinitrogen tetroxide; liquid SO and dimethyl sulfoxide.
Prerequisite: CHM226Y

Structural Inorganic Chemistry
Methods of structure determination including X-ray and electron diffraction, infrared, Raman and n.m.r. spectroscopy. A survey of bonding theories and a comparison of the successes and failures of Valence Shell Electron Repulsion Theory applied to the compounds of non-transition and transition elements.
Prerequisite: CHM330Y

Bioinorganic Chemistry
Thermodynamic, spectral, and magnetic properties are considered to determine the structural and functional roles of metal ions in proteins, enzymes, and metal activated systems. Metalloenzyme catalytic mechanisms are compared with those of simple inorganic complexes.
Prerequisite: CHM330Y, 360Y/BCH321Y(G)

Computer Simulation of Chemical Systems
Topics covered will include the following: Elements of a computer language; chemical equilibria (including multiple equilibria) and solutions of the set of equations by successive approximations; chemical reaction rate and mechanism as examples for integration techniques; the fitting of experimental data to polynomials; Fourier transform techniques and spectroscopy; problems in quantum mechanics.
Prerequisite: P.I.

Advances in Analytical Surface Science
Surface chemistry is responsible for many of the most important interactions of interest today, including catalysis, fuel cell function, corrosion processes and biological recognition. Topics studied will include the theory and application of methods suitable for monolayer investigation for elemental composition and chemical binding, such as x-ray photoelectron and Auger electron spectroscopy, surface conformational analysis by Raman spectroscopy, chemical analysis by reflectance, evanescent wave techniques and the photoacoustic process.
Prerequisite: CHM314Y

Neurochemistry
Specialized areas in contemporary neurochemistry will be covered including:
Chemistry of neurotransmitters, receptors and ion channels; selected topics in neuropharmacology; developmental molecular biology of the nervous system.
Prerequisite: CHM360Y, P.I.

CHM415Y Dissertation Based on Literature Research
The dissertation will be based on literature research of a given area and will be expected to occupy one-fifth of a student's programme. Introductory reading will be necessary early in the course to bring students to a level where they can appreciate the most recent work in their topic. The dissertation will be conducted under the guidance of a chemistry faculty member on a topic other than the student's research topic in CHM419Y.
Prerequisite: P.I., CHM226Y and three of CHM314Y, 326Y, 330Y, 340Y, 360Y

CHM419Y Introduction to Research in Chemistry
An experimental or theoretical research problem in chemistry under the supervision of a member of the chemistry staff. The total time involved will be of the order of 250 hours, and students, in addition to carrying out research on their own projects, will be encouraged to participate fully in the laboratory activities of their chosen research groups. A final report incorporating the aims and results of this research will be required.
Corequisite: At least one 400 level chemistry full-course equivalent and P.I.
NOTE: Applications for enrolment should be made through the Faculty Advisor before the end of the preceding session.

CLASSICS

See also under Greek (GRK) and Latin (LAT)

Faculty Advisor: Professor T.G. Elliott

Classics is the study of the civilizations of Greece and Rome. These are of interest both in theirn own right and because their achievements haven been the foundation of so many aspects of our own civilization: its art, languages, literatures, philosophy, government. Courses in Classics thus present background material which is indispensable for the understanding of many other studies in the Humanities.

Courses are offered at Erindale in three areas. The first of these (CLA) does not require knowledge of Greek or Latin. It includes courses in Greek and Roman history, for which students may receive credit towards the Specialist Programme in History. It also includes courses in Greek and Latin Literature, read in translation, and courses in mythology and religion. The other two areas are Greek (GRK) and Latin (LAT) language and literature. Beginners' courses are offered in both languages.

For courses in Classics see also Greek (GRK), Latin (LAT), FAH101Y, 256H, 258H,HIS485Y, 486Y.

Please see Section 5 for details of Programme Requirement.

CLA100Y Classical Literature
An introduction to the study of classical literature with the reading, in English, of selected works by major Greek and Latin authors influential in shaping western literature: Homer, Greek Tragedy and Comedy, Herodotus, Plato and Aristotle; Roman Comedy, Cicero, Virgil, Horace, Ovid. [78L]

CLA201H(I) Latin and Greek in Scientific Terminology
The study of technical and scientific terms derived from Latin and Greek: word elements, formation, analysis. The course assists students in medical, biological, and related studies in making sense of the technical terminology of these fields by explaining its origins in Greek and Latin. [39L]

CLA202H(I) The Ancient Novel
(Formerly GLL202H)
The human and social climate in which prose fiction arose; the Greek romances of love and adventure (Heliodorus, Longus, Xenophon), and the more ironical and socially conscious works of the Roman writers, Petronius, *The Satyricon* and Apuleius, *The Golden Ass*; parallels with modern literature. [26S]
Offered in alternate years.

CLA224H(I) Roman Satire
(Formerly GLL204H)
A reading of selected Roman satires, with emphasis on Horace and Juvenal. Verse satire is the most personal form of Roman literature and offers the modern reader a vivid and witty picture of the society of the times. Of further interest is the influence of Horace and Juvenal on the formation of modern English and European satire. [26S]

CLA232H(I) Ancient Astronomy and Astrology
(Formerly GRH232H)
Greek and Roman views of the universe; the origin and development of scientific astronomy,rastrology, and star worship. [26S]
Offered in alternate years.

CLA234H(I) Ancient Science and Technology
(Formerly GRH234H)
Greek and Roman technology and science, and their relationship to each other; comparisons with developments in other ancient cultures; explanations for the limitations of ancient technology. [39L]

CLA240Y(I) Greek History to the death of Alexander
(Formerly GRH200Y)
Political, economic and intellectual progress and achievement in the Greek classical age. [52L, 26T]
Exclusion: CLA130Y(G) if taken in the same year of study

CLA241Y(I) Alexander the Great and the Hellenistic Age
(Formerly GRH216Y)
The achievement of Alexander and its importance for subsequent Mediterranean history. The creation of Hellenistic states and their historical significance. [52S]

CLA261Y Greek and Roman Religion and Mythology
(Formerly GLL190Y)
The myths of Greece and Rome will be studied in connection with the religion of the ancient world. Attention will be focussed on the origin and development of the most important myths and their significance as inspiration for art and literature. In addition, the course will include discussion of different schools of interpretation of myth, and comparison of Greek and Roman myths to those of other cultures, particularly of the Near East and Northern Europe. [52L, 26T]
Exclusion: CLA105H (formerly GLL191H)(G), CLA205Y(formerly GLL 205Y)(G)

CLA300Y Greek Tragedy and Comedy
(Formerly GLL300Y)
Greek drama from the origins of tragedy in the sixth century to New Comedy, with close study of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes and Menander, and attention to Aristotle's *Poetics*. [52S]n

CLA350Y(I) The Roman Empire
(Formerly GRH202Y)
Constitutional,economic, social, military and religious developments in the empire, from Augustus to St. Augustine. [52L, 26T]
Exclusion: CLA130Y(G), if taken in the same year of study
Offered in alternate years.

CLA354Y Caesar and Augustus
(Formerly GRH311Y)
Their work and their contribution, as well as the role of their contemporaries: Pompey, Crassus, Cicero, Antony and Brutus. Based primarily on original sources (in translation), such as the writings of Caesar, the correspondence of Cicero, and the political testament of Augustus. [52S]
Exclusion: HIS486Y
Offered in alternate years.

CLA355H Constantine the Great and His Age
(Formerly GRH319H)
Power politics and religious experience in a formative period in the development of Western civilization. [26S]
Recommended preparation: CLA130Y(G)/ CLA350Y

CLA361Y Religion in the Roman Empire
(Formerly GRH218Y)
A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity: conversion, opposition, persecution and the eventual establishment of Christianity as the Empire's sole religion. [52S]
Offered in alternate years.

CLA400Y Independent Studies
Prerequisite: Permission of the Department

CLA401H Independent Studies
Prerequisite: Permission of the Department

Faculty Advisor: Professor M.J. Bryant
Student Counsellor: Mrs. V. Boon

The objective of the Commerce Programmes is to help students develop analytical skills and knowledge of business and government institutions which will be useful in solving problems and making decisions while at the same time obtaining a broad education. The programmes provide a foundation on which professional and managerial skills may be built.

The *specialist* programme in Commerce and Finance, a four-year programme leading to the degree of Bachelor of Commerce, has two main areas of concentration: commerce and economics. This feature of the University of Toronto programme equips students to deal with the increasing interaction between the private and public sectors of the economy and the interrelationships between the economies of different countries. This basic approach is incorporated into the programme by the requirement that students take a minimum of at least seven courses in each of commerce and economics. Students may select commerce courses to concentrate on their area of interest.

The first two years of the programme emphasize basic disciplines (accounting, economics, mathematics) and other liberal arts subjects. In the third and fourth years students build on this base by taking courses in commerce subjects such as advanced accounting, finance, marketing, administrative theory, and decision sciences, further courses in economics and courses in other subjects such as actuarial science, political science and computer science.

Graduates of the specialist programme may become accountants, actuaries, bankers, economists, financial analysts, marketing analysts, treasurers, or proprietors of small businesses. In some cases graduates of the programme undertake further university studies, such as business administration or law, or take programmes sponsored by professional associations in order to obtain professional certification as accountants, actuaries, or financial analysts. Graduates of the specialist programme, provided they select the appropriate subjects in their third and fourth years and achieve the required grade may proceed to a Master of Business Administration degree in one year. Graduates of other programmes usually take two years for an M.B.A.

In the *major* programme in Commerce, which may be taken as part of either a three-year or four-year programme leading to the degree of Bachelor of Arts, students may take fewer commerce courses but have the opportunity to combine the study of commerce with that of other subjects such as computer science, mathematics, political science, international relations, or languages. Courses in both the specialist and major pro-

grammes are available to students in the evening hours so that part-time students may enter the programmes.

BECAUSE OF LIMITED RESOURCES, ENROLMENT IN BOTH PROGRAMMES AND IN COURSES IS RESTRICTED. Admission to the programmes is normally made at the beginning of the student's second year at the University and is based on the student's marks in the courses taken to date at the University.

Both the University of Toronto degree programmes in Commerce are offered at Erindale: Commerce and Finance Specialist (B.Com.) and the Major in Commerce (B.A.). In addition COM100 series courses are available to students seeking degrees outside the Commerce discipline. All Commerce courses above the 100 level require ballots to be filed in the Commerce Office in the Spring. The ballots will be used as a basis for checking whether the students are eligible to enroll in the course and to allocate places in courses which become oversubscribed.

Please see Section 5 for details of Programme Requirements.

COM102H Financial Accounting I
An introduction to the theory and concepts of financial accounting. The course will consider the uses and users of financial statements as well as issues concerning financial statement presentation. [26L, 13P]
Exclusion: COM203H

COM103H Financial Accounting II
Financial accounting issues are addressed, including revenue recognition, valuation models and accounting for liabilities. The course will emphasize the role of judgement in the preparation of financial statements. The course is intended for students concentrating in accounting. [26L, 13P]
Prerequisite: COM102H with at least a C grade.

COM203H Financial Accounting
Introductory course in financial accounting and reporting. [26L]
Exclusion: COM102H

COM204H Managerial Accounting
Introductory course in managerial accounting. [26L]
Exclusion: COM220Y

COM205H Financial Reporting
Issues in financial accounting and reporting will be examined. The role of financial accounting in a market economy will be studied. The course will provide students with the analytical tools necessary to indicate the effects of differences in accounting procedures and their effects on the financial statements of the firm. Not intended for students concentrating in accounting. [26L, 13P]
Exclusion: COM320Y
Prerequisite: COM102H

POL207Y Introduction to Public Administration and Public Policy
Major theories and concepts in the fields of public administration and public policy, drawing on the experience of Canada and other advanced industrialized nations. [52L]
Exclusion: COM301Y
(Note: Students may count only one of POL207Y or POL307Y as COM courses if both have been taken).

COM220Y Management Accounting
The development of information for management decision making and control. Topics include costing, capital budgeting, and selected analytical tools such as regression analysis and linear programming models. Case discussion and computer applications will be used where appropriate. [52L]
Exclusion: COM204H
NOTE: *To enrol in a 300 series course a student must have standing in at least 9 courses.*

COM300Y The Legal Environment of Business
Development of an approach to reaching decisions objectively and examination of how law, as an institution, accommodates business convenience and social policy. Analysis of legal devices commonly encountered in the operation of a business. [52L]

POL307Y Public Administration and Public Policy in Canada
Combines a study of the organization, processes and issues in Canadian public administration with a study of the institutions and processes involved in policy making. Also focuses on the study of specific policy areas including some of the following: economic policy, social welfare, regional disparities, and industrial development. [52L]
Exclusion: COM301Y, POL304Y, 322Y
Prerequisite: COM100Y/203H/POL100Y. POL207Y is recommended but not a formal prerequisite
(Note: Students may count only one of POL207Y or POL307Y as COM courses if both have been taken).

COM320Y Financial Accounting Theory and Policy
Theory of and critical examination of corporate financial reporting and generally accepted accounting principles. [52L]
Prerequisite: COM103H

COM324H Investments
Security analysis and portfolio management. Emphasis is placed on an analysis of bonds and common stocks. [26L]
Corequisite: COM337Y

COM325Y Managerial Economics
The micro-economic tools of analysis relevant to management problems in both the private and public sectors. Topics include the nature of the firm, empirical demand and cost analysis, the economics of risk and uncertainty, the economics of information, public enterprise economics, the economics of regulation and regulatory practices in Canadian industry, transfer pricing problems, technological change and market structure. In the B.Com. programme this course qualifies as either a Commerce or an Economics course. [52L]
Prerequisite: ECO200Y/206Y/210Y, MAT132Y/138Y, ECO220Y/227Y/ STA242Y/262Y

COM331Y Finance
The financial decision-making process including the financing, investment, and dividend decisions of the firm. Institutional aspects of finance, with emphasis on the characteristics of various debt and equity instruments available in Canadian capital markets. (Available to students in the Major in Commerce and Business Certificate Programmes). [52L]
Exclusion: COM337Y
Prerequisite: ECO220Y/227Y/STA(202H and 212H)/242Y/262Y

COM337Y Business Finance
Valuation models, cost of capital, capital budgeting, investment under uncertainty, the use of leverage, dividend policy, the financial environment within which Canadian companies operate and the characteristics of various debt and equity instruments available in the Canadian capital market. [52L]
Exclusion: COM331Y
Prerequisite: ECO220Y/227Y/STA242/262Y, ECO200Y/206Y/210Y, 202Y/ 208Y/212Y

COM341H Theory of Administrative Behaviour I
(Formerly COM441H)
Theoretical ideas and empirical data concerning individual and group behaviour in organizations. Relevance of these for problems confronting management: motivation, influence, communication, supervision and decision making. [26L]
Exclusion: WDW103Y

COM342H Theory of Administrative Behaviour II
(Formerly COM442H)
Evolution of managerial and organization theory and practice from the classical approach of bureaucratic theory to the concepts of the organization as an open system. The managerial assumptions and implications applied to organizational problems. [26L]
Exclusion: WDW103Y

COM349H Fundamentals of Marketing
Study of the interacting institutions and business activities designed to plan, price, promote and distribute products and services to present and potential consumers. (Available to students in the Major in Commerce and Business Certificate programmes). [26L]
Exclusion: COM350Y

COM350Y Marketing
Market definition, consumer behaviour, and marketing functions: product line development, pricing, distribution, promotion, salesforce management, advertising, research, and planning. [52L]
Exclusion: COM349H

NOTE: *To enrol in a 400 series course a student must have standing in at least 14 courses.*

COM410H Marketing Management
Emphasis on marketing management in a dynamic environment. Deals with decision-making concepts and tools useful in identifying, structuring and solving marketing problems, planning and control. [26S]
Prerequisite: COM350Y

COM420Y Accounting Literature and Research
Seminar for the critical discussion of research bulletins and monographs of the leading accounting bodies in Canada, the United States and Britain, of articles in scholarly and practitioner accounting journals, etc. Review of contemporary and controversial issues in accounting theory. [52S]
Prerequisite: COM320Y with at least a C

COM422Y Quantitative Systems Analysis
Quantitative analysis for management decision-making in the areas of finance, operations, marketing, personnel and the public sector. The first part of the course focuses on some models like linear and nonlinear programming, network analysis, integer programmingagoal programming, decision theory and simulation, which are applicable to the analysis of decision problems. Some problems of operations management including forecasting, aggregate planning, inventory control, MRP, scheduling and controlling of operations and quality assurance are discussed in the second part of the course. [52L]
Prerequisite: ECO220Y/227Y/STA242Y/262Y

COM423Y Canadian Income Taxation
Introduction to the technical provisions and broad policy issues involved in Canadian taxation of business enterprises in Canada. [52L]

COM424H Advanced Topics in Finance
The areas of concentration will depend on the particular instructor teaching the course and may focus on financing problems in either the private or public sectors [26L]
Prerequisite: COM337Y

COM426H Advanced Accounting
(Formerly COM326H)
Consideration of accounting practice in the context of accounting theory and concepts of a number of areas including intercorporate investments, foreign currency translation, deferred taxes, accounting for general purchasing power, and current value accounting. [26L]
Prerequisite: COM320Y with at least a C-

COM427H Introduction to International Business
This is a general introductory course in international business for the relatively advanced student. Its principal focus is development of management skills which will be useful for firms engaged in international business. Topics of international economics (trade theory, foreign exchange, foreign direct investment, etc.) are covered from the manager's viewpoint. A substantial part of the course is devoted to the problems of managing multinational corporations in this environment. [26L]

COM428H Management Control
The case method will be used to provide an understanding of the issues and environment of management control, and will integrate material from other courses in Commerce and Economics in the solution of problems in systems design and operation. [26S]
Prerequisite: COM220Y with at least a C

COM430H Auditing
A study of the concepts and theory underlying audit practice. Cases are used to develop professional judgement and skills useful in practice. [26L]
Prerequisite: COM320Y, ECO220Y/227Y/STA242Y/262Y

COM435H Research and Analysis in Marketing
How information can be acquired outside the firm; specification, gathering, analyzing and interpretation of information to reduce the uncertainty of management decisions. Emphasis on evaluating the reliability and validity of information by identifying sources of error, and methods of minimizing them. [26L]
Prerequisite: COM350Y, ECO220Y/227Y/STA242Y/262Y

COM437H Supervised Reading Course on an Approved Subject
Open when a faculty member is willing and able to supervise. Students must obtain approval of a Committee of the Commerce Faculty, The Director of Commerce and supervising faculty member before enrolling.
Prerequisite: Cumulative GPA of at least 2.7

COM439H International Finance
International financial markets, exchange rates, forward markets, interest rate parity. International dimensions of investment, including both portfolio and foreign direct investment. International dimensions of corporate finance, including valuation and the cost of capital of foreign investments. [26S]
Prerequisite: COM337Y

COM443H Personnel Administration
Current concepts and practices in the major functions of personnel administration taught from a managerial perspective of planning, organizing, and controlling. [26L]
Prerequisite: COM341H/342H/WDW103Y

COM450H Management Policy and Strategy
Choice of corporate purposes and definition of needs, the mobilization of resources and moulding of organizational character for the attainment of goals. Analysis of the conditions for the survival and growth of the corporation as it relates to (1) external environmental threats and opportunities, and (2) the assessment of internal strengths and weaknesses. [26L]
Prerequisite: COM337Y, 350Y

Faculty Advisor: Professor G.S. Graham

Computer Science is concerned in the broadest sense with the study of computers and of applications of computers. Its development was stimulated by the use of computers in many areas, such as Engineering, Physics, Chemistry, Biology, Statistics, and business. Yet Computer Science involves much more than just developing techniques for these application areas.

Computer Science as a discipline encompasses a wide range of research interests. Examples include: the design and implementation of computer programming languages, the design and organization of complex computer systems, the efficient allocation and use of computer resources under various constraints, and the organization and management of vast quantities of data typical in many business applications. Computer Graphics is the study of the application of computers to the analysis and generation of pictorial information. Theoretical interests in Computer Science include the study of computability - what can and cannot be computed by machines; of complexity - the relative effort required to perform various computations; and of verification - the formal proof of the correctness of programs. Artificial Intelligence research in Computer Science is concerned with using computers to simulate intelligent behaviour, with the development of programs that can process pictorial and linguistic data, prove theorems, solve problems, etc. Numerical Analysis is concerned with the design, testing and analysis of numerical methods for solving computational problems in science and engineering.

Course offerings in Computer Science are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing, to those interested in applying computers to other fields.

Enrolment is restricted in all CSC programmes (except the Minor) and in all courses above the 100-level. Consult the Calendar Supplement and the Department for details of how to apply.

Admission to restricted courses depends on performance in past CSC courses, but a student admitted to a programme will always be admitted to the courses needed for that programme.

Admission to restricted programmes depends on performance in the courses required in first year and to some extent on cumulative GPA. For the last three years, the necessary average in the required courses has been: 1983 - 71%; 1984 - 68%; 1985 - 67%. In calculating a student's average, "bonuses" are given for taking courses at a higher level than is required. See the programme descriptions for an indication of which courses are required.

CSC148H and CSC158H are the standard first year courses for students who plan to continue with further courses in Computer Science in later years. CSC150H and CSC160H provide a more intensive alternative. Students choosing CSC150H and CSC160H should have a good background in high school mathematics and science, and previous programming experience is recommended.

For more information on the Programmes obtain a copy of the Computer Science Undergraduate Student Handbook from Room 4037.

Please see Section 5 for details of Programme Requirement.

NOTE: No late registration is permitted in any CSC course after the first two weeks of classes. Students may change from higher-level to lower-level introductory courses until the end of the sixth week of term.

CSC108H Computer Programming
Introduction to programming in a high-level language such as Turing. Basic constructs: if statements, loops. Operations on strings and numbers. Data and program restructuring using arrays and subprograms. Applications including sorting. Further topics chosen from recursion, record structures, other languages. [26L, 13T]
Exclusion: CSC139H, 148H, 149H, 150H, 201H(G)
Prerequisite: Grade 12 Mathematics

CSC118H Programming Applications
A continuation of CSC108H, but at a less intensive level than CSC158H. Representation of complex data. Sequential file processing. Numerical computation. Simulation. The hardware environment: storage mechanisms, communications. [26L, 13T]
Exclusion: CSC158H, 160H, 202H(G)
Prerequisite: CSC108H/139H/148H/149H/150H/201H(G)

CSC148H Introduction to Computing
An introduction to algorithms and problem-solving with computers. Programming in Turing, including an introduction to simple data structures, string manipulation, recursion, linked lists, hashing, program correctness, and floating-point calculations. Comparison of several internal sorting algorithms. Brief exposure to machine language programming. (More intensive than CSC108H; intended primarily for students who plan to pursue any of the Programmes sponsored by this department.) [26L, 13T]
Exclusion: CSC108H, 139H, 149H, 150H, 201H(G)
Prerequisite: Grade 13 Mathematics R&F and C
Corequisite: MAT132Y/138Y

CSC150H Introductory Computer Science
A more intensive treatment of the topics in CSC148H, with emphasis on program design, analysis, and correctness. [26L, 13T]
Exclusion: CSC108H, 139H, 148H, 149H, 201H(G)
Prerequisite: Grade 13 Mathematics R&F, C, A
Corequisite: MAT138Y
Recommended Preparation: Previous programming experience

CSC158H Computer Applications
A continuation of CSC148H or CSC150H. An introduction to the representation and applications of graphs, computer simulation models, games, artificial intelligence, and numerical methods. The use of data types such as stacks, queues, trees, and heaps. Some exposure to languages such as Fortran, PL/I, and Pascal.
[26L, 13T]
Exclusion: CSC118H, 160H, 202H(G)
Prerequisite: Grade 13 Mathematics R&F and C, CSC139H/148H/149H/ 150H
Corequisite: MAT132Y/138Y

CSC160H Applications of Computer Science
A more intensive treatment of the application areas in CSC158H. [26L, 13T]
Exclusion: CSC118H, 158H, 202H(G)
Prerequisite: CSC148H/150H
Corequisite: MAT138Y

CSC228H File Structures and Data Management
An introduction to the hardware and software aspects of data processing, including the Cobol language. Emphasis will be placed on external file accessing. External storage device characteristics. File accessing and organization. Methods of indexed sequential organization and direct organization. Single and multiple attribute file accessing. External sorting. Buffering, blocking, data encoding. Introduction to data base management. Additional topics include decision tables, project management, documentation standards. [26L, 13T]
Prerequisite: CSC158H/160H

CSC238H Discrete Mathematics for Computer Science
A rigorous treatment of certain aspects of discrete mathematics with applications to computer science. Emphasis will be placed on the basic properties and fundamental algorithms concerning integers (including induction, Euclidean algorithm, modular arithmetic), and on logic (including propos[illegible]ional and predicate calculus and simple formal theories). Application of these ideas will be made to topics such as program correctness, formal program verification, algorithms from graph theory, and elementary set theory. [26L, 13T]
Exclusion: CSC348H
Prerequisite: CSC158H/160H

CSC258H Computer Organization
(Formerly CSC257H)
Computer structures, machine languages, instruction execution, addressing techniques and digital representation of data. Computer system organization, memory storage devices, microprogramming. Block diagram circuit realizations of memory, control and arithmetic functions.
There will be three laboratory periods in which students will conduct experiments with digital logic circuits. [26L, 9P, 13T]
Prerequisite: CSC158H/160H

CSC324H Principles of Programming Languages
(Formerly CSC248H)
A wide variety of programming styles and the programming languages that support them. Emphasis on recursion and concurrency, but other programming regimes such as backtracking and coroutines may also be covered. Language features influencing these regimes such as pattern matching, programs as data, and module encapsulation. Examples from a number of contemporary programming languages such as LISP, Concurrent Euclid, C, Prolog, Smalltalk, and Simula. [26L, 13T]
Prerequisite: CSC238H

CSC351H Numerical Analysis
An introduction to the analysis of basic methods for solving non-linear systems of equations, approximation, quadrature, and the solution of ordinary differential equations. The emphasis will be on the analysis and use of methods, rather than on implementation. [26L, 13T]
Exclusion: CSC336H(G), ACT323H
Prerequisite: CSC158H/160H, MAT228H, 234Y/235Y/238Y

CSC364H Effective and Efficient Computing
Introduction to the theory of computation: computable functions, Turing machines, recursive and primitive recursive functions, unsolvable problems, and Church's thesis. Program correctness. Introduction to Complexity Theory: models of computation, classes P and NP, techniques for efficient algorithms, NP-complete problems, and heuristic algorithms. [26L, 13T]
Prerequisite: CSC238H

CSC378H Information Structures
An advanced study of major classes of information structures with an emphasis on the design, analysis, and implementation of non-numerical algorithms, using an abstract data types approache Review and synthesis of internal and external datae organization and accessing, including searching and sorting. Advanced topics on linear lists, graphs, trees, sets, hash tables, and files. Dynamic storage allocation and garbage collection. Relations and relational algebra. An overview of problem-solving techniques. [26L, 13T]
Exclusion: CSC334H(G), 356H
Prerequisite: CSC228H, 238H

CSC488H Language Processors
(Formerly CSC368H)
Compiler organization, compiler writing tools, use of regular expressions, finite automata and context-free grammars, scanning and parsing, runtime organization, semantic analysis, implementing the runtime model, storage allocation, code generation. [26L, 13T]
Prerequisite: CSC324H, 356H/378H

CSC492H Computer Science Implementation Project
This half-course involves a significant implementation project in any area of Computer Science. The project may be undertaken individually or in small groups. The project is offered by arrangement with a Computer Science faculty member.
Exclusion: CSC494H(G), 495H(G)
Prerequisite: At least three 300 level CSC half-courses and permission of the Discipline Representative

CSC493H Computer Science Expository Work
This half-course involves a significant literature search and expository work in any area of Computer Science. This work must be undertaken individually. It is offered by arrangement with a Computer Science faculty member.
Exclusion: CSC494H(G), 495H(G)
Prerequisite: At least three 300 level CSC half-courses and permission of the Discipline Representative
Recommended preparation: INE203H

Faculty Advisor: Professor J.H. Astington
The study of drama invites the student to considere a form of art as old as man. Facilities at Erindalee provide opportunities for a full and varied explorae tion of the nature of drama: courses in dramatice literature, theatrical history, and theatre practicee enable the student to experience a number of different approaches to understanding. An equipped Studio Theatre is available for rehearsal and performance.

NOTE: *This programme does not correspond with the programme offered by University College.*

Please see Section 5 for details of Programme Requirement.

DRM120Y Drama on the Stage
Through the study of between eight and ten plays from the Greek through to the modern theatre the course will consider original conditions of staging and performance, and examine how historical knowledge might be applied to productions of the plays today. [52L, 26S]
Exclusion: DRM110Y
Recommended preparation: Grade 13 English

DRM200Y Acting I
Basic areas of acting technique in speech and movement; problems of portrayal of character; phenomena of theatrical communication (actor to actor, actor to audience, and "feedback") and techniques for their control. Students will be expected to participate in public productions and to prepare for classes as for rehearsal (line learning, research). [104P]
Enrolment limited. Consult the office of the Associate Dean for Humanities.

DRM300Y Acting II
Detailed work on acting technique and the interpretation of the play text. Students will be expected to work on their own to a considerable extent, in preparation of scenes for group discussion, and to work on productions arising from the course. The work of DRM200Y will be continued in a more advanced and intensive way. [104P]
Prerequisite: DRM200Y or equivalent
Enrolment limited. Consult the office of the Associate Dean for Humanities.
Offered in alternate years.

DRM390Y Independent Study
An independent project in drama studies, chosen by the student and supervised by a member of the faculty. A written proposal, signed by the supervisor, must be submitted for approval to the Faculty Advisor before registration.
Prerequisite: Two DRM courses; permission of Faculty Advisor

ECONOMICS

Faculty Advisor: Professor M.J. Hare

Economics is a social science; that is, it is an exploration of the behaviour of people in society. It has a strong influence on the structure, well-being and development of a society. More specifically, Economics studies the ways in which the resources of a country (capital, labour, land and natural resources) are allocated between industries to efficiently produce the range of goods and services provided in the country each year. The decisions of what to produce, of production methods, and how to distribute the goods and services provided must be made in each country irrespective of the political organization of the government in that country. Allocative decisions are made according to traditional patterns and customs; by government decree, policies and planning, and finally by the allocative mechanisms inherent in the price system.

At the aggregate level, Economics considers such problems as excessive levels of unemployment and inflation in the Canadian economy, and analyzes policies which can mitigate these burdens. The study of Economics also assesses the fairness of the tax burden, and the degree to which government spending can be justified. At a more micro or disaggregated level, economic analysis considers the determination of economic efficiency in different types of industry (e.g., oligopoly, and pure competition); the impact of anti-trust regulations, and the determination of prices of both outputs and inputs through the forces of supply and demand. Economic assessments of international trade patterns, tariffs and the consequences of foreign direct investment are also integral.

In addition, economic analysis focuses on such issues as pollution, poverty, the rate of economic growth and urbanization, regional disparities and energy analysis, topics which are ubiquitous in today's newspapers.

The course sequence in Economics at Erindale is intentionally designed to accommodate the interests of students who wish to specialize in this discipline, and concomitantly, those who wish a broader assessment.

Students who concentrate in Economics frequently continue into graduate work in Business or Economics, or proceed into Law, Chartered Accountancy and many other areas of industry and government.

Economic theory now makes considerable use of mathematics in some of its enquiries. A student who chooses to specialize in Economics must take at least one basic course in Mathematics.

First year preparation: ECO100Y and MAT132Y/MAT138Y.

Programmes: Economics, Economics (Commerce and Finance), Economics and History, Economics and Philosophy, Economics and Political Science.

NOTE: The enrolment in most Economics courses above the 100 level (and therefore, in all Economics programmes) is restricted. Academic performance requirements (enrolment criteria) are necessary for ECO200 and 300 level courses. ECO220Y/STA242Y/262Y (but not STA202H and 212H) is required for most ECO300 level courses. Students should consult this Calendar, the Calendar Supplement and the information bulletins (available from the Department Office at Erindale) which set out the course enrolment criteria. *Not all courses are offered each year.*

Please see Section 5 for details of Programme Requirement.

ECO100Y Introduction to Economics

A survey course with emphasis on the basic concepts and techniques of macro and micro economic theory. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; the derivation and use of supply and demand schedules; the theory of the firm; and principles of comparative advantage and foreign exchange fluctuations. [78L, 26T]

NOTE: Academic performance requirements are necessary as a condition for enrolment into ECO200 level courses. (See Economic Enrolment Criteria details at the Departmental Office at Erindale and prerequisite information listed below for ECO200 level courses.)

ECO200Y Microeconomic Theory

An intermediate treatment of the basic tools of economic analysis with applications to a wide variety of economic problems in the area of pricing, resource allocation, income distribution, and welfare economics. Intended primarily for students in the Economics Major and Minor programmes. [52L, 26T]

Exclusion: ECO206Y

Prerequisite: ECO100Y with at least C-

ECO202Y Macroeconomic Theory and Policy

Macroeconomics, monetary economics, economic stabilization, capital markets and international monetary economics. Theory of output, employment and the price level; techniques for achieving economic stability; central banking and Canadian financial institutions and markets; foreign exchange markets. Intended primarily for students in the Economics Major and Minor programmes. [78L]

Exclusion: ECO208Y

Prerequisite: ECO100Y with at least C-

Corequisite: MAT132Y/138Y

ECO203Y Modern European Economic History
The economic development of modern Europe, with emphasis on the industrialization process and agrarian change in major European countries with concentration on the period from 1750 to 1939. [52L]
Exclusion: ECO101Y(G)/201Y(G)
Prerequisite: ECO100Y with at least C-

ECO206Y Microeconomic Theory
This course deals more rigorously with the material included in ECO200Y and is intended primarily for students in the Economics Specialist programmes and for students in the Commerce and Finance (B.Com.) programme who have the prerequisites. [52L, 26T]
Exclusion: ECO200Y
Prerequisite: ECO100Y with at least B-, MAT132Y (60%)/138Y(55%)

ECO208Y Macroeconomic Theory
This course deals more rigorously with the material included in ECO202Y and is intended primarily for students in the Economics Specialist programmes and for students in the Commerce and Finance (B. Com.) programme who have the prerequisites. [78L or 52L, 26T]
Exclusion: ECO202Y
Prerequisite: ECO100Y with at least B-, MAT132Y (60%)/138Y(55%)

ECO220Y Quantitative Methods in Economics
An introduction to the use of statistical analysis, including such topics as elementary probability theory, sampling distributions, tests of hypotheses, estimation, analysis of variance and regression analysis. Emphasis is placed on applications in economics and business problems. [52L, 26T]
Exclusion: ECO227Y, STA202H, 212H, 242Y, 262Y, GGR202H, 212H, PSY200H, 201H
Prerequisite: ECO100Y with at least C-, MAT132Y/138Y

ECO221Y Canadian Economic History Since 1500
Canadian economic growth and development from the sixteenth century to the present. Reference to relevant topics in United States economic history, especially during the colonial period. [52L]
Exclusion: ECO222Y
Prerequisite: ECO100Y with at least C-

ECO222Y Canadian Economic Development Since Confederation
Canadian economic growth since the mid-nineteenth century; emphasis on the application of economic theory and data to historical issues. [52L]
Exclusion: ECO221Y
Prerequisite: ECO100Y with at least C-

ECO227Y Quantitative Methods in Economicsa
This course deals more rigorously with the topicsa included in ECO220 ' and is intended primarilya for students in the Economics Specialist program-a mes, students in the Commerce and Finance (B.Com.) programme who have the prerequisites and for students planning toatake ECO327Ya [56L, 26T]
Exclusion: ECO220Y, STA202H, 212H, 242Y, 262Y;GGR202H, 212H, PSY200H, 201H, 202H
Prerequisite: At least 65% in ECO100Y, MAT132Y, (60%)/138Y(55%)

ECO244Y Industrial Relations
The role, structure, and performance of industrial relations within the framework of Canada's socio-economic-political system. Growth and history of the Canadian Labour movement: its philosophy and structure. Management's strategies and tactics in collective bargaining; public policy in the field of industrial relations; strikes in so-called emergency situations; the role of unions and collective bargaining in inflation. [52L]

ECO311H Government Policy Toward Business (A continuation of ECO366H)
Government policies affecting the private sector; possible improvements in current policies. Emphasis on competition and anti-combines policy, the regulated industries, the patent system, externalities and market failure, and the industrial implications of tariff policy. [26L]
Exclusion: ECO310Y
Prerequisite: ECO366H

ECO312H Economics of Public Regulation
The efficiency and equity aspects of the regulation of public utilities. Economic theory, finance, politics, empirical evidence, and administrative law. The recent deregulation movement. [26L]
Prerequisite: ECO200Y/206Y, 220Y/227Y/STA242Y/262Y

ECO315Y Analysis of Canadian Economic Problems
The application of economic analysis to issues in Canadian public policy. Topics are analyzed with respect to efficient production, foreign ownership, natural resources, stabilization policy, and distribution of income, within the context of a federal state and an open economy. [52L]
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO320Y An Economic Analysis of Law
This course will examine the economic basis for the law. The material will include an analysis of liability rules, including no-fault systems, workmen's compensation, consumer protection legislation, and medical malpractice. The appropriate economic measures of damages in tort cases will be discussed. Property rights will be considered in depth. Other topics include contracts, family law, the corporation, crime as an occupation, and law enforcement. [52L]
Prerequisite: ECO200Y/206Y

ECO322Y History of Economic Thought
This course analyzes the development of economic thought in the eighteenth and nineteenth centuries, concentrating on the writings of Adam Smith, David Ricardo, J.S. Mill and Karl Marx. Methodological questions are raised and lead to a general assessment of alternative approaches to interpreting the history of economics. [52L]
Prerequisite: ECO200Y/206Y, 202Y/208Y

ECO324Y Economic Development
Emphasis is on the economic conditions of low-income countries and the prospects for their economic growth and development. Frequent reference will be made to specific issues affecting the nations of Africa, Asia and Latin America, such as food procurement, high rates of inflation, levels of international indebtedness and foreign exchange shortages. [52L]
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO325H Advanced Economic Theory - Macro
To develop analytical skills in construction and solving macro-economic models. [26L]
Prerequisite: ECO208Y/202Y with 65%, 220Y/227Y/STA242Y/262Y

ECO326H Advanced Economic Theory - Micro
Focuses on theories and techniques of decision-making by firms and households. The problem of measuring economic welfare and the merits and shortcomings of the market mechanism in promoting it are examined. [26L]
Prerequisite: ECO206Y, 200Y with 65%, 220Y/227Y/STA242Y/262Y

ECO327Y Applied Econometrics
The development and application of those statistical techniques that are used in the testing of the implications of economic theory. [52L]
Prerequisite: ECO200Y/206Y, 202Y/208Y, 227Y/220Y with 65%/STA242Y with 65%/262Y

ECO333Y Urban Economics
The purpose of the course is twofold. To analyze the effects of government policies for regulating markets in urban areas using such examples as zoning, land speculation, rent control and strategies for pollution control. To evaluate current and proposed methods of providing and financing urban services including discussion of such topics as metropolitan government pricing of transportation services and the effect of the property tax. [52L]
Prerequisite: ECO200Y/206Y, 220Y/227Y/STA242Y/262Y

ECO336Y Canadian Public Finance
The construction of an economic theory of government to explain the determination of the budget and to provide an economic rationale for government intervention; an analysis of changing patterns of expenditure and revenue of federal and provincial governments; the development of criteria for the evaluation of expenditure programmes and the tax structure; the problems and techniques of fiscal stabilization. [52L]
Exclusion: ECO236Y, 345H
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO348H Monetary Economics and Stabilization Policy
Theoretical foundations and empirical studies of monetary analysis and policy: the channels relating money, interest rates, prices and economic activity as the basis for assessing the role of monetary policy in stabilization policy. [26L]
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO350Y Seminar on Selected Subjects
Offers a seminar in a different subject each year. Students require written permission of the Assistant Chairman in addition to minimum prerequisites published for each seminar. [52L]
Exclusion: ECO351H, 352H

ECO351H/352H Seminar on Selected Subjects
Offers a seminar in a different subject each year. Students require written permission of the Assistant Chairman in addition to minimum prerequisites published for each seminar. [26L]
Exclusion: ECO350Y

ECO360Y Industrial Growth and Technological Change
Examines theories of capitalism; the forces behind growth in the industrial countries and the benefits and costs of economic growth. Emphasis is placed on technological change and the environmental consequences of industrialization. References are made to the patterns and sources of economic growth in Canada, the United States, Japan and selected European countries. [52L]
Exclusion: ECO313H
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO361Y Labour Economics
(Formerly ECO361H and ECO362H)
Analysis of theory, evidence and policy for a number of labour market topics such as hours of work, job sharing and part-time employment; participation rates; education and human capital; the wage structure and income distribution; sex discrimination; unemployment; the rate of wage change and wage-price controls; unions and collective bargaining. [52L]
Exclusion: ECO239Y/339Y
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO363Y Modern Economic Institutions
The economic analysis of modern economies from an institutional perspective. Topics will include the institutional foundations of the contemporary economies of Great Britain, Canada, the United States, and Sweden. Another principal theme is the relationship between plans and markets in the USSR and Eastern Europe. Finally, the interactions between traditions, markets and socialistic practices in East Africa will be examined. [52L]
Prerequisite: ECO200Y/206Y

ECO364H International Trade Theory
An analysis of the nature, effects and policy implications of international trade theory; the theories of comparative costs and reciprocal demands, factor reward equalization, international tariffs and customs unions. [26L]
Exclusion: ECO328Y
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO365H International Monetary Economics
An analysis of the nature, effects and policy implications of international finance; balance-of-payments, and foreign exchange analysis; liquidity problems and topics related to current problems in international finance. [26L]
Exclusion: ECO328Y
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO366H Principles of Industrial Organization
The allocative implications of market failure and the operation of oligopolistic and imperfectly competitive markets. Measures of industrial concentration and other dimensions of market structure; models of firm behaviour in different market settings; case studies of particular industries. [26L]
Exclusion: ECO310Y
Prerequisite: ECO200Y/206Y, 220Y/227Y/STA242Y/262Y

ECO367H Welfare Economics
The basic ideas of welfare economics - especially Pareto efficiency and the question of the significance of Pareto efficiency - will be examined. Then a few particular topics (such as the economic implications of property rights; consumer surplus; and compensation tests) will be studied more intensively. [26L]
Prerequisite: ECO200Y/206Y, 220Y/227Y/STA242Y/262Y

ECO368H Economics of Poverty
Economic influences on the extent of inequality and poverty in Canada will be examined. These will include aggregate income levels, unemployment, inflation, regional development, education, low wage employment and discrimination. Canadian policies that affect the incidence of poverty are evaluated, and proposed programmes are critically analyzed. [26L]
Exclusion: ECO340Y
Prerequisite: ECO200Y/206Y

ECO372H Game Theory and Economic Strategy
This course will develop the basic concept of non-cooperative games in extensive and normal form. The level of exposition will be comparable to the *Games and Decisions* by Luce and Raiffa. The emphasis will be on developing an intuitive grasp of the concepts and the relationship between these concepts and strategic situations encountered in economics and other contexts. [26L]
Prerequisite: ECO200Y/206Y, 220Y/227Y/STA242Y/262Y

ECO420Y Reading Course, Seminar or Workshop
Primarily for advanced Specialist Students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the Assistant Chairman before enrolling. [TBA]
Exclusion: ECO421H, 422H

ECO421H/422H Reading Course, Seminar or Workshop
Primarily for advanced Specialist students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the Assistant Chairman before enrolling. [TBA]
Exclusion: ECO420Y

ECO430Y Thesis I
Intended for students in the Economics Specialist programmes. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the Assistant Chairman before enrolling. [TBA]
Prerequisite: ECO325H, 326H, 327Y

ECO431Y Thesis II
[TBA]
Prerequisite: ECO325H, 326H, 327Y
Corequisite: ECO430Y

Faculty Advisor: Professor V.A. De Luca
The Department of English offers a wide range of courses. Whether an individual course provides a knowledge of one author or one genre or an entire period, its aim is to deepen the student's awareness and appreciation of a distinguished literary tradition.
Courses are arranged in four series. This gradation denotes the level of work expected in the classroom. Thus, courses in the 100 series are introductory; the 200 series provides courses at an intermediate level; and more advanced courses appear in the 300 and 400 series. (Students from outside the Faculty wishing to take English courses should consult the Associate Chairman of the Department.)
The Specialist Programme outlined in Section 5 provides the student with the opportunity to become acquainted with a range of authors, periods, and critical approaches. The Specialist Programme is not designed especially for entrance into Graduate School; therefore, students contemplating further degrees should consult their instructors about graduate school requirements, including the customary language requirements. Similarly, students considering a teaching career in Ontario should consult the Faculty of Education about the requirements for Type A certification.
The student who desires information beyond what is set forth in this Calendar may obtain a brochure from the English office (Room 227, North Building) or from the Department of English on the St. George Campus (7 King's College Circle). This describes the content of courses in fuller detail and supplies lists of texts suggested by the individual instructors. Counselling is available from the Faculty Advisor as well as from other members of the English Faculty.
The 100 series courses are designed to introduce students to English studies at the university level and to develop their skills in critical reading and writing. The range of subject matter is broad, but all courses have certain aims and methods in common. Each course will encourage the close and careful reading of texts and provide an opportunity for students to develop their writing abilities. The 100 series courses are open to all students with fewer than nine courses and to other students who have standing in no more than one course in English. The 200 series courses are open to all students who have completed at least four full courses and to those with fewer than four full courses completed who are taking at least one 100 series course in English. The 300 series courses are open to all students who have completed at least four full courses at least one of which must be in English. The 400 series courses are open to students who have completed at least nine full courses including three full courses in English.

Please see Section 5 for details of Programmen Requirement.

Programmes: English; English and History; English and Philosophy; Modern Languages and Literatures.

ENG100Y Effective Writing
An introduction to the writing of prose, dealing with organization, style and usage, intended to improve individual writing skills and to develop a critical appreciation of different types of prose. [78L]
Exclusion: INE203H, 205H

ENG101Y Backgrounds to English Literature
An introduction to the study of literature through twelve major works that have contributed significantly to the form and development of English literature. Works by Homer; Aeschylus; Sophocles; Plato; Vergil; Ovid; Augustine; Dante; Shakespeare; the Bible; *Sir Gawain and the Green Knight*. [78L]
Offered in alternate years.

ENG108Y Forms of 20th-Century Literature
An introduction to the study of literature through at least ten but not more than twelve works by modern authors, including three dramatists, three poets, and three novelists. At least one work shall date from after 1960. The authors shall include: O'Neill, *Long Day's Journey into Night*; Beckett, *Waiting for Godot* or *Endgame*; poems by two of Yeats, Eliot, Stevens; Joyce, *A Portrait of the Artist as a Young Man* or *Dubliners*; Faulkner, *As I Lay Dying* or *Light in August*. [78L]

ENG112Y Major British Writers
An introduction to the study of literature through a chronological consideration of no fewer than ten and no more than twelve works by major authors from the middle ages to the present day. Texts: Chaucer, the General Prologue to *The Canterbury Tales* and one tale; Shakespeare, *Othello*; Milton, *Paradise Lost*, Books I & II, and IV & IX as selected in *The Norton Anthology of English Literature*; Congreve, *The Way of the World* or Shaw, *St. Joan*; two novels, at least one before 1900. In addition, no fewer than four of Spenser, *The Faerie Queene*, Book I; Donne, selections; Dryden or Pope, selections; Swift, *Gulliver's Travels*; Wordsworth or Keats, selections; Tennyson or Browning, selections; Yeats or Eliot, selections. [78L]

ENG165Y Major Forms of English Literature
An introduction to the study of literature through works representative of the genres (e.g., drama, poetry, prose fiction) and through an examination of the forms of literary expression. Texts: *King Lear*, *The Importance of Being Earnest*, and another play. A selection of lyrics, and two of the following: "When Lilacs Last in the Dooryard Bloom'd" and other elegies; "My Last Duchess" and other dramatic monologues; sonnets by Milton, Shakespeare and others. *Tess of the d'Urbervilles*, another novel, and an example of another prose form. Up to three additional texts representing at least two genres. [78L]

ENG206Y English Literature of the Renaissance
Poetry: Sidney, Spenser, Shakespeare, Donne, selected poems; Spenser, *The Faerie Queene*, selections; selected poems by at least three of Jonson, Herrick, Herbert, Marvell, Vaughan and Milton (minor poems); Milton, *Paradise Lost* (selections). Drama: two or three plays. Prose: at least three of Sidney, *Apology for Poetry*, Bacon, Donne, Milton, Browne. Supplementary reading: two or more of More, *Utopia*, Erasmus, *Praise of Folly*, Machiavelli, *The Prince*, Castiglione, *The Courtier*, and Montaigne, *Essays*. [78L]

ENG207Y 19th-Century English Literature
Selected works by at least ten writers illustrating the range and characteristics of English poetry, fiction, and prose in the nineteenth century. At least four authors from Scott, Jane Austen, Blake, Wordsworth, Coleridge, Byron, Shelley and Keats; and at least four from Carlyle, Newman, Mill, Tennyson, Browning, Thackeray, Dickens, Georgen Eliot, Ruskin, Arnold, Meredith and Hardy. Not more than three novelists will be studied. [78L]
Offered in alternate years.

ENG212Y Shakespeare
Special study of not more than twelve plays by Shakespeare, including at least eight of the following: *Romeo and Juliet*; *A Midsummer Night's Dream*; *Richard II*; *Henry IV*, parts I and II; *Henry V*; *Twelfth Night*; *Measure for Measure*; *Hamlet*; *King Lear*; *Antony and Cleopatra*; *The Tempest*. [78L]

ENG225H British Fiction Since 1960
At least six works by at least four contemporary British novelists, such as Beckett, Burgess, Fowles, Golding, Lessing, Spark, Thomas. [39L]
Offered in alternate years.

ENG226H American Fiction Since 1960
At least six works by at least four contemporary American novelists, such as Bellow, Doctorow, Hawkes, Mailer, Nabokov, Percy, Pynchon, Updike, Vonnegut. [39L]
Offered in alternate years

ENG235H Drama in English Since 1960
At least ten plays by at least six contemporary British and American dramatists, such as Pinter, Albee, Stoppard, Orton, Bond, Storey, Mercer, Griffiths, Shaffer, Shepard, Sackler, Terry. [39L]
Exclusion: ENG278H (1977-80)
Offered in alternate years.

ENG245H Poetry in English since 1960
Works by at least six contemporary poets, such as Dickey, Ginsberg, Heaney, Howard, Hughes, Larkin, Lowell, Plath, Warren. [39L]
Offered in alternate years.

ENG250Y American Literature
An introductory survey of major works in American literature through the study of approximately twelve representative writers. Works to be studied include: Hawthorne, *The Scarlet Letter*; Melville, *Moby-Dick*; Thoreau, *Walden* or Emerson, selected writings; Twain, *Adventures of Huckleberry Finn*; selected poems by Whitman, novels by James and Faulkner; selected poems by one of Eliot, Frost, Stevens. [78L]

ENG252Y Canadian Literature in English
An introductory survey of Canadian poetry, prose, and drama. Texts: Moodie, *Roughing It in the Bush*; Ross, ed., *Poets of the Confederation*; Leacock, *Sunshine Sketches*; works by five of Grove, Callaghan, MacLennan, Ross, Laurence, Davies, Richler, Munro; poems by three of Pratt, Smith, F.R. Scott, Livesay, Klein, Birney; at least four other works, one of which must date from before 1900 and two of which must be plays. [78L]
Offered in alternate years.

ENG254H Canadian Drama
Canadian plays, with emphasis on major playwrights and on developments since 1940, but with attention also to the history of the theatre in Canada. [39L]
Offered in alternate years.

ENG256Y Modern Canadian Fiction
A survey of the historical development and contemporary state of Canadian fiction in English. A minimum of fifteen works will be studied, including at least one by six of the following principal authors: Duncan, Leacock, Grove, Callaghan, MacLennan, Buckler, Lowry, Davies, Laurence, Richler, Munro, Atwood. A selection of short stories may be included. [78L]
Offered in alternate years.

ENG259H Children's Literature
An historical and critical study of works written for or appropriated by children. Works to be studied are *Pilgrim's Progress*, *Robinson Crusoe*, *Gulliver's Travels*, *King Arthur and His Knights*, *The Hobbit*, *The Borrowers*, *Treasure Island*, *The Blue Fairy Book*, *Winnie-the-Pooh*, *The Wind in the Willows*, *Andersen's Fairy Tales and Stories*, *Huckleberry Finn*, *Alice in Wonderland* and *Through the Looking Glass*, *The Puffin Book of Nursery Rhymes*, and *a Midsummer Night's Dream*. [39L]
Offered in alternate years.

ENG262H Detective Fiction
A survey of the genre based on a selection of authors (who transcend the limitations of the formula), among them: Wilkie Collins, Dickens, Chesterton, Dorothy Sayers, Dashiell Hammett, Raymond Chandler, J.D. Carr, and Faulkner. [39L]
Offered in alternate years.

ENG265H The Short Story
An introduction to fiction through short stories of various kinds, written mainly in the 19th and 20th Centuries. Authors include Hawthorne, Poe, James, Conrad, Kipling, Joyce, Lawrence, Mansfield, Faulkner, Hemingway, Singer, Gallant. [39L]

ENG275Y Major Women Writers
A study of at least five and not more than eight major women writers. The course will include works of poetry and fiction; drama and non-fiction may also be represented. [78L]

ENG278H Science and Literature
This course will study how natural science and scientific ideas are reflected in various ways in literature of the past 250 years. Topics: (1) Scientific Models in Poetry: short selections from Pope, Blake, Shelley, Tennyson, and others (2) Utopias and anti-Utopias: Swift, *Gulliver's Travels*, Bk. III, Wells, *The Time Machine*, Aldous Huxley, *Brave New World* (3) Essays: Arnold, *Literature and Science*, T. Huxley, *Science and Culture*, C.P. Snow, *The Two Cultures* (4) Science in Fiction: Le Guin, *Left Hand of Darkness*, Lessing, *The Sirian Experiments*, Pynchon, *The Crying of Lot 49*. [39L]
Offered in alternate years.

ENG295H The Short Story Collection
A study of interrelated short story collections written and put together by such authors as Kipling, Joyce, Lawrence, Hemingway, Mansfield, Salinger, Roth, Laurence, Faulkner, O'Connor, and Gallant. [39L]
Offered in alternate years.

ENG306Y English Poetry, Prose and Drama, 1660-1800
Works from at least ten of the following authors: Addison, Boswell, Burke, Burns, Butler, Collins, Congreve, Cowper, Defoe, Dryden, Gay, Gibbon, Goldsmith, Gray, Halifax, Johnson, Pepys, Pope, Prior, Rochester, Sheridan, Smart, Steele, Swift, Thomson, Horace Walpole, Wycherley, and Young; with particular attention to Dryden, Pope, Swift, and Johnson. [78L]
Offered in alternate years.

ENG308Y Romantic Poetry
Poetry and critical prose of Blake, Wordsworth, Coleridge, Byron, Shelley, Keats; may include brief selections from other writers such as Crabbe, Scott, Landor, Clare. [78L]
Offered in alternate years.

ENG312Y Chaucer
The Canterbury Tales; Troilus and Criseyde; selections from Chaucer's other works. [78L]

ENG317Y Major American Authors
A close study of works by four or five authors including one author before 1900 and one after; at least three of the authors will be chosen from the following: Emerson, Cooper, Dickinson, Hawthorne, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens, Faulkner. [78L]
Exclusion: ENG218Y, 318Y, 319Y
Offered in alternate years.

ENG322Y Fiction Before 1832
At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Austen, and Scott. Three of the works will be: Richardson, *Pamela* or *Clarissa;* Fielding, *Joseph Andrews* or *Tom Jones;* Sterne, *Tristram Shandy*. [78L]

ENG324Y Fiction, 1832-1900
At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily Brontë, George Eliot, and Hardy. [78L]

ENG328Y Fiction, 1900-1960
At least twelve works, including one or more by each of James, Conrad, Joyce, Lawrence, and Faulkner. [78L]
Offered in alternate years.

ENG332Y English Drama to 1642
Examples of the miracle play, the morality play, the Tudor interlude, early Tudor and Elizabethan tragedy, comedy and romance; two or more plays by Marlowe; Shakespeare: at least seven of the following: *Love's Labour's Lost, Richard III, Much Ado About Nothing, As You Like It, Troilus and Cressida, Othello, Macbeth, King Lear, Coriolanus, The Winter's Tale*; two plays by Jonson; and a selection of works by at least six other Jacobean dramatists. [78L]
Offered in alternate years.

ENG338Y Modern Drama
A minimum of twenty representative modern plays, one or more by at least five of the following: Ibsen, Chekhov, Shaw, Synge, Yeats, O'Casey, O'Neill, Eliot, Beckett, Pinter. [78L]

ENG348Y Modern Poetry
Special study of Hopkins, Yeats, Pound, Eliot, Stevens; selections from other poets. [78L]
Offered in alternate years.

ENG369Y Seminar in Writing
Restricted to students who in the opinion of the Department show special aptitude. [52S]
Prerequisite: Permission of Instructor

ENG390Y Individual Studies
A scholarly project chosen by the student and supervised by a member of staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project titles should be approved by the Associate Chairman by April 15, and none will be accepted after September 15. Proposal forms are available in Room 227 (North Building). [TBA]
Prerequisite: Three courses in English

ENG391Y Individual Studies
A project in creative writing chosen by the student and supervised by a member of the staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project titles should be approved by the Associate Chairman by April 15, and none will be accepted after September 15. Proposal forms are available in Room 227 (North Building). [TBA]
Prerequisite: Three courses in English, including ENG369Y

ENG413Y Studies in Renaissance Literature
A seminar in English literature of the Renaissance. For further description consult the English Discipline brochure.
[52S]
Prerequisite: Three courses in English, including one of ENG206Y/212Y/302Y/304Y/332Y
Offered in alternate years.

ENG417Y Studies in Nineteenth-Century Literature
A seminar in nineteenth-century literature in English. For further description consult the English Discipline handbook. [52S]
Prerequisite: Three courses in English, including one of ENG 207Y/308Y/324Y/346Y/368Y

ENG466Y Comprehensive Studies
Supervised reading for three substantial examinations, one each on general literary history, practical and theoretical literary problems, and an area of the student's choice. [TBA]
Prerequisite: Open only to students who have obtained standing in at least fourteen full courses, at least three of which must be in English. Proposal forms are available in Room 227 (North Building).

ENG467Y Seminar in Theory and Criticism of Literature
For description consult English Discipline brochure. [52S]
Prerequisite: Normally three previous courses in English

ENG469Y Senior Essay
A scholarly project chosen by the student and supervised by a member of the staff. All project titles should be approved by the Associate Chairman by April 15, and none will be accepted after September 15. Proposal forms are available in Room 227 (North Building). [TBA]
Prerequisite: Open only to students who have obtained standing in at least fourteen full courses, at least three of which must be in English

(Geology and Geophysics)
Faculty Advisors: Professors H.C. Halls, D.R. Kobluk, G.W. Pearce, P-Y.F. Robin, R.M. Stesky.
Earth and Planetary Science is concerned with the origin, evolution and structure of the Earth and planets, through combined analysis of physical, chemical and biological processes. Theories of global dynamics and continuing planetary research provide new insights into our understanding of the Earth's behaviour and of its relationship to other planets.
In society, the Earth Scientist plays two important roles: searches for materials of economic value and evaluates potential hazards in our natural environment. The exploration and development of natural resources constitutes one of the largest and most fundamental industries in Canada, and has always been a major employer of earth scientists, either as geologists or geophysicists. For many years the occurrence of earthquakes, volcanic eruptions and other natural hazards has been monitored on a global scale. Recent advances in the understanding of these phenomena have enabled earth scientists to become more involved in seeking ways to predict or even control them.
A career in Earth Science may lead to work in many parts of the world, under a wide variety of field conditions. Laboratory studies are also needed to supplement field observations and often require the use of sophisticated analytical equipment.
Erindale offers a broad spectrum of courses in Earth and Planetary Science, encompassing the fields of geophysics, structural geology, sedimentology, petrology, stratigraphy, and paleontology. Three specialist programmes are presently offered, in Geology, Geophysics or Geochemistry. These programmes are outlined in Section 5 of this Calendar; note that most fourth-year courses are taken on the St. George campus. Many courses offered in Earth and Planetary Science may be useful to students specializing in other fields such as Environmental Geography, Survey Science, Biology and Anthropology.

Please see Section 5 for details of Programme Requirement.

EPS110H Man and the Earth
Emphasizes the impact of natural earth processes on human activity. Topics include: asteroidal impact with Earth; the monitoring, prediction and control of natural hazards such as earthquakes, volcanic eruptions, landslides and avalanches; the search for oil and mineral wealth. Suitable for students in Humanities, Social Sciences, Physical and Biological Sciences. [26L, 13T]

EPS120H Planet Earth
An introduction to the scientific principles and methods used by geologists to discover and study the history, structure and evolution of our planet. Among topics discussed are: the origin of the Earth; exploration of the deep interior of the Earth; the world of minerals and rocks; plate tectonics and the natural history of the Earth's crust.
Practical work focuses on some examples of the methods used to study the Earth (radiochronology, seismic methods), introduces students to/then observation, description and classification of minerals and rocks, and teaches how to look at, and interpret geological maps.
[26L, 39P]
Recommended preparation: Grade 12 or Grade 13 Physics and Chemistry

EPS121H The Rock Record and Earth History
The history of life on earth, and the basic principles of sedimentation, stratigraphy, and biostratigraphy. The course emphasizes the sedimentary rock record including: how sediments are moved and deposited, the major types of sedimentary deposits, interpreting sedimentary sequences, how fossils are used in stratigraphy, and what the rock record tells us about the history of life on Earth. [26L, 39P]
Prerequisite: EPS120H

EPS219H Mineralogy
A course in mineralogy for students who wish to pursue careers in Earth Sciences and Geography. Lecture material covers the principles of mineralogy: crystallography, physical and chemical properties of minerals, their formation and occurrence; descriptive mineralogy of some 70 species. Practical work is devoted to crystal and mineral recognition. [26L, 39P]
Prerequisite: EPS120H, 121H
Corequisite: CHM135Y/150Y/P.I.

EPS221H Optical Mineralogy
An introduction to optical crystallography, the use of the petrological microscope, and the optical properties of the common rock-forming minerals. [26L, 39P]
Prerequisite: EPS219H
Corequisite: CHM135Y/150Y

EPS222H Introduction to Rock Identification
A practical course in the identification of rocks from hand-samples. The lectures emphasize rock classification and description, procedures for rock identification and introductory petrogenesis. Laboratory work includes the description and identification of named and unnamed rock specimens. [26L, 39P]
Prerequisite: EPS219H

EPS230H Phase Diagrams For Geologists
(Formerly EPS330H)
Applications of phase equilibrium to the study of minerals, rocks and ores. Topics include the phase rule, multi-component diagrams as applied to igneous rocks, systems under confining pressures, and reactions involving water, carbon dioxide, oxygen and sulfur relating to sedimentary and metamorphic rocks and to ore deposits. [39L]
Prerequisite: CHM135Y/150Y, EPS219H

EPS237H Exploring the Solar System
An examination of the recent great accumulation of knowledge of the sun, planets and other members of our solar system. The course will concentrate on the terrestrial planets Mars, Earth, Venus, and Mercury, because of our greater knowledge of these through numerous landing, orbiting and flyby observations. The asteroids, the giant planets and their satellites will be discussed particularly as they pertain to theories of the origin and evolution of the solar system. [26L, 13P]
Prerequisite: MAT132Y/138Y, one 100 level AST/CHM/EPS/PHY course

EPS270H Paleontology and Stratigraphy for Geologists
The course is divided into two major divisions: lectures treat principles of stratigraphy and biostratigraphy, and the history of sedimentation in North America (emphasizing northeastern North America) from the Middle Precambrian to the end of the Paleozoic. The laboratories are an introduction to the major groups of invertebrate organisms found as fossils; emphasis is upon those groups of major biostratigraphic and paleoecological significance. [26L, 39P]
Prerequisite: EPS120H, 121H

EPS320H Igneous Petrology
Principles of classification and interpretation of igneous rocks. Practical work emphasizes recognition and description of igneous rocks in hand specimens and petrographic thin sections. [26L, 39P]
Prerequisite: EPS221H, 222H
Recommended preparation: EPS230H/330H

EPS321H Metamorphic Petrology
Principles of classification and interpretation of metamorphic rocks. Practical work emphasizes recognition and description of metamorphic rocks in hand specimens and petrographic thin sections. [26L, 39P]
Prerequisite: EPS221H, 222H
Recommended preparation: EPS230H/330H

EPS322H Structural Geology
An introductory study of the deformation of rocks in the Earth: introduction to continuum mechanics, mechanisms of deformation of rocks under various conditions, tectonite fabrics, folding, faulting. Practical work consists of weekly laboratory sessions on graphical methods in structural geology, and of a one-day field trip to examine deformed metamorphic rocks in the Muskoka district. [39L, 39P]
Prerequisite: EPS219H, 222H, PHY132Y/140Y
Recommended preparations: Grade 13 Algebra or Mathematics C, or MAT105Y

EPS332H Tectonics
An examination of the principles of plate tectonics and the use of plate tectonic theory to help unravel the development of the earth's crust. Topics include plate kinematics, driving mechanisms, processes at plate margins, orogeny, intraplate tectonics, and epeirogeny. Laboratory work emphasizes map interpretation and geological reconstruction. [26L, 39P]
Prerequisite: EPS322H

JGP334H Physics of the Earth
(See Joint Courses)
A course dealing with the quantitative physical description of the earth, its dynamics, internal structure and tectonic history. Topics covered in detail are: radioactivity and radiometric dating of rocks; the rotation and dynamics of the earth's gravitational and magnetic fields; ancient magnetic fields; and seismological evidence for the internal structure and composition of the earth. Extensive use is made of potential field methods and solution of partial differential equations. [26L, 13T]
Prerequisite: PHY231Y
Recommended preparation: EPS100H/120H, 121H/236H/335H

EPS335H Geophysics
(Formerly EPS236H)
An introduction to the methods of geophysics as they are applied to our understanding of large scale features and processes of the earth's crust and upper mantle and of the structure of the deeper interior of the earth. The topics of seismicity, gravity, magnetism, thermal studies will be studied in theoretical and practical ways. [26L, 26P, 13T]
Prerequisite: EPS(120H, 121H)/120Y, PHY120Y/132Y/140Y
Corequisite: EPS219H

EPS375H Carbonate Rocks
An examination of limestones and dolomites, emphasizing their identification, classification and interpretation. The course is a practical guide to carbonate sediments and rocks, and teaches the student to deal with these rocks in both thin section and hand sample. Topics include: grain types, grain size and other grain parameters, classification, neomorphism, cementation, dolomitization, diagenetic processes, and reef carbonates. [26L, 39P]
Prerequisites: EPS219H, 221H, 222H, 270H

EPS376H Clastic Rocks
The composition, textural characteristics and origin of terrigenous clastic rocks. Stratigraphy and correlation in clastic sequences. Applications of sedimentary petrology to resource and geotechnical evaluation. [26L, 39P]
Prerequisite: EPS375H

EPS437H Exploration Geophysics I
(Formerly EPS337H)
An introduction to the geophysical methods used in the search for mineral deposits. Basic principles, instrumentation, field procedures and elementary interpretation techniques are outlined for gravity, magnetic and seismic methods. Practical work will emphasize field surveys. [26L, 39P]
Prerequisites: EPS222H, 219H, PHY132Y/140Y
Recommended preparation: EPS236H/335H

EPS438H Exploration Geophysics II
(Formerly EPS338H)
A continuation of EPS437H with emphasis on electrical and electromagnetic methods. Practical work consists of laboratory exercises and experiments designed to simulate natural situations. For those students who have completed the course and EPS437H, a series of weekend field trips are available, arranged by the Geophysics Division on the St. George Campus, just prior to the beginning of the fall term. [26L, 39P]
Prerequisite: EPS337H/437H
Recommended preparation: PHY231Y

EPS460H Seismic Stratigraphy
An introduction to the application of reflection seismology to the study of crustal structure and stratigraphy and to the exploration for oil and gas. The emphasis will be on stratigraphic modeling and interpretation of seismic data. The practicals include computer and physical modeling of reflection seismograms for various geological situations, laboratory measurement of seismic wave velocity, and interpretation of borehole logs and seismic sections from an area of active petroleum exploration. [26L, 39P]
Prerequisite: PHY132Y/140Y
Corequisite: EPS322H, 375H/376H

EPS470Y Research Project
A student research programme under the supervision of the staff. Arrangements for this course must be made with an EPS Faculty member prior to registration. Copies of typed reports to be submitted by April 1st.
Exclusion: EPS471H/472H
Prerequisite: Any 2 full-course equivalents from the EPS300 series, plus a 75% average in the last 5 courses taken

EPS471H Research Project
A student research programme under the supervision of the staff. Arrangements for this course must be made with an EPS Faculty member prior to registration. Copies of typed reports must be submitted one week prior to the end of term classes.
Exclusion: EPS470Y
Prerequisite: P.I.

EPS472H Research Project
A student research programme under the supervision of the staff. Arrangements for this course must be made with an EPS Faculty member prior to registration. Copies of typed reports must be submitted one week prior to the end of term classes.
Exclusion: EPS470Y
Prerequisite: P.I.

Faculty Advisor: Professor T. Martone
The study of works of art provides insight into the nature of the societies in which they were created; it is one of the ways of gaining understanding of human culture in general. More specifically, the creative process leading to the making of a work of art is a subject worthy of study in its own right. Students of Art and Art History attempt to comprehend and interpret this process through learning critical and research methods and through practice. The subjects of study are the visual arts: architecture, sculpture, painting and the minor arts. They also complement related disciplines, of which history, philosophy and literature are examples.
Erindale College offers courses in both Art History (FAH) and Art and Art History (FAS). The student may work toward a specialization or major in Art History or in Studio, the latter of which requires a component of Art History courses. Specialization in Fine Art may lead to professional work in galleries or museums, teaching at the high school or university levels, careers in illustration and design, or independent artistic activities. A joint specialization in Fine Art and Urban Studies is also available. Interested students should consult the Faculty Advisors in both of these Disciplines.
Students registering in their first year in Fine Art and Art & Art History, are advised to meet the Discipline Representative and Studio Advisor during registration period for guidance. Most FAS courses are offered on the Sheridan Campus, Oakville. In order to be eligible for enrolment in a FAS course, students must apply and register in person at Sheridan College, Oakville Campus. Enrolment is limited in all studio courses and the balloting is mandatory and should be completed on forms available from the Fine Art Office, Erindale or Registrar's Office, Sheridan prior to August 20, to guarantee considerations.
See section 5 for details of Programme Requirement.
Counselling is available by appointment from:
Discipline Representative Erindale - T. Martone (828-5285)
Undergraduate Secretary (FAH) St. George Campus - Michael McCarthy and/or Robert Deshman (978-3290)
Studio advisor - (FAS) Sheridan College, Oakville Campus, Annie Smith (845-9430)

HISTORY OF ART (FAH)

FAH101Y Greek and Roman Art
The art of Greece and Rome. The importance of architecture and the arts as characteristic expressions of their age. Detailed study of the outstanding monuments. [78L]

FAH102Y Mediaeval Art and Architecture
A selective survey of the art of the Middle Ages. The study of Early Christian, Byzantine, and Early and Late Mediaeval art and architecture will be combined with a more general introduction to the language of visual expression and its interpretation. [52L, 26T]

FAH200Y European Art from 1400 to 1750
Major forms of expression in the visual arts--architecture, painting and sculpture--with special emphasis on visual analysis. Political, religious and general cultural movements. [52L, 26T]
Recommended preparation: FAH101Y/102Y

FAH210Y European Painting and Sculpture from Neo-classicism to 1940
A discussion of the major movements in European art. [52L]
Exclusion: FAH208H, 209H, 283H, 284H
Recommended preparation: FAH200Y

FAH211H Architecture in the Western World Since the Birth of Neo-Classicism
A survey of principal developments in the history of Western architecture since the mid-eighteenth century. [26L]
Recommended preparation: FAH200Y
Offered in alternate years.

FAH256H Ancient Rome
Development of the city of Rome, from early times to the Late Empire. Buildings and monuments and their place in the life of the ancient city. Readings in topography, art and architecture, and history. [26L]
Offered in alternate years.

FAH258H Pompeii, Herculaneum and Ostia
The public and domestic monuments of three ancient Roman communities, illustrating the daily life of the later Republic and the Empire, outside the capital city itself. [26L]
Offered in alternate years.

FAH265H The Mediaeval City
A study of the medieval city, seen within its intellectual, social and political context. The course will concentrate on the ground plans and on the forms and uses of public buildings, religious and secular, and of domestic architecture.
Exclusion: FAH365H
Offered in alternate years.

FAH268H The Gothic Cathedral
The architecture and decoration of the Gothic cathedral. Origins, evolution, and variety of forms; methods of construction; religious and liturgical uses; symbolic meanings; its mediaeval, intellectual and social context. [26L]

FAH304Y Piero della Francesca and His Followers
An investigation into the sources and development of ideal space and forms in the paintings and writings of Piero della Francesca and his followers in Tuscany and Rome in the late 15th andrearly 16th centuries. [52S]
Prerequisite: FAH200Y
Recommended preparation: A reading knowledge of Italian or French
Offered in alternate years.

FAH312H Painting and Sculpture in the United States
These arts in America since the late 17th century: their relationship to European traditions, the growth of distinctive national styles, and international interaction. [26S]
Exclusion: FAH310Y
Prerequisite: FAH200Y/210Y/287H and P.I.
Offered in alternate years.

FAH313H Painting and Sculpture in Canada
These arts in Canada since the late 17th century: their relationship to European traditions, the growth of distinctive national styles, and international interaction. [26S]
Exclusion: FAH310Y
Prerequisite: FAH200Y/210Y/287H and P.I.
Offered in alternate years.

FAH315H Realism
An examination of this mid-nineteenth century movement in French painting and sculpture with particular emphasis on Courbet, Millet, the Barbizon School, Daumier and Manet. [26S]
Pre or Corequisite: FAH210Y/283H/301Y and P.I.
Recommended preparation: A reading knowledge of French
Offered in alternate years.

FAH318H Vincent Van Gogh and 19th Century European Painting
The role of this artist in relation to the Romantic, Realist, Impressionist, Neo-Impressionist and Symbolist movements in European painting. [26S]
Pre or Corequisite: FAH210Y/283H/301Y and P.I.
Recommended preparation: A reading knowledge of French, German or Dutch
Offered in alternate years.

FAH319H The Expressionist Tradition in Twentieth Century Painting and Sculpture
A continuation of FAH318H, the course concentrates upon such twentieth century masters as Matisse, Kirchner, Kandinsky, Nolde, Arp, Miro and Pollock, Borduas and Riopelle. [26S]
Pre or Corequisite: FAH210Y/283H/301Y and P.I.
Recommended preparation: A reading knowledge of French or German
Offered in alternate years.

FAH327H Giotto and Duccio
The position of these artists in the sequence of Italian painting, their masterworks in Padua, Florence and Siena seen in relation to the work of their predecessors and followers. [26S]
Exclusion: FAH326Y
Prerequisite: FAH102Y and P.I.
Recommended preparation: A reading knowledge of Italian or German
Offered in alternate years.

FAH328H Italian Mediaeval Sculpture
Selected topics in the history of Italian mediaeval sculpture, concentrating on the careers of the Emilian masters of the twelfth century and the Pisani in the thirteenth and early fourteenth. [26S]
Exclusion: FAH326Y
Prerequisite: FAH102Y and P.I.
Recommended preparation: A reading knowledge of Italian or German
Offered in alternate years.

FAH330Y Raphael and Michelangelo As Painters
An investigation of the late pictorial works of Raphael and Michelangelo which completed the decoration of the Sistine Chapel, and also of Michelangelo's Peter and Paul cycles in the adjacent Pauline Chapel. A study of High Renaissance Classicism. [52S]
Prerequisite: FAH200Y
Recommended preparation: A reading knowledge of Italian or German
Offered in alternate years.

FAH331H Fifteenth and Sixteenth Century Italian Sculpture
The development of Renaissance sculpture from Ghiberti to Michelangelo, with an emphasis on the works of Donatello and Michelangelo. The impact of the latter's achievement on the succeeding generation of Mannerist sculptors such as Cellini, Ammanati and Sansovino. [26S]
Prerequisite: FAH200Y
Recommended preparation: A reading knowledge of Italian or German
Offered in alternate years.

FAH332H Studies in Baroque Painting
Its origins in Northern Italian painting and its subsequent manifestation in the aesthetic of Caravaggio, Annibale Carracci and their followers throughout Europe. Seventeenth century academies of art will also be considered. [26S]
Prerequisite: FAH200Y
Recommended preparation: A reading knowledge of Italian or German
Offered in alternate years.

FAH337H The Ideal City: Formal Problems in Central Plan Cities
(Formerly FAH336H)
The origin and development of central plan and architecture and of attempts to reconstruct urban environments in the Renaissance and Baroque periods; the theory underlying circular, Greek cross and oval plan structures; the extension of these plans to villas, palaces and city squares. [26S]
Prerequisite: FAH101Y/102Y/P.I. and FAH200Y
Recommended preparation: A reading knowledge of French, German or Italian
Offered in alternate years.

FAH338H Baroque Architecture in Italy
The origins and development of the Baroque style in architecture in the Italian peninsula, principally in Rome. [26S]
Prerequisite: FAH200Y
Recommended preparation: A reading knowledge of Italian
Offered in alternate years.

FAH365H The Mediaeval City
See FAH265H for a description. Students taking the course as a third year subject will attend the lectures, participate in an additional weekly class and write a special paper. [26L, 13T]
Exclusion: FAH265H
Prerequisite: FAH102Y and P.I.
Offered in alternate years.

FAH370H Gothic Architecture
A study of the forms, uses and decoration of West European architecture between ca 1140 and ca 1400. [26S]
Prerequisite: FAH102Y
Recommended preparation: A reading knowledge of French
Offered in alternate years.

FAH402H International Art Since 1940
Developments in the mainstream of Western painting and sculpture since World War II with special emphasis upon inter-relations among Europe, Canada and the United States. [26S]
Prerequisite: FAH210Y/286H/310Y/312H/313H and P.I.
Offered in alternate years.

FAH445H Portraiture from 1400-1750
Portraits of individuals of various social strata. Topics such as the social position of the artist as artisan or practitioner of the Liberal Arts; the aggrandizement of the prince and his dynasty in

allegorical portraits; the female portrait as model of virtue, aesthetic and sex object; the male portrait as exemplar of leadership, image of impotency and self-doubt. [26S]
Prerequisite: FAH101Y/102Y/200Y
Recommended preparation: SOC101Y; knowledge of social history of the 15th-17th centuries; a reading knowledge of French, German or Italian
Offered in alternate years.

FAH446Y Art and Literature
Consideration of various types of illustrative art, including illustrated texts and history and genre painting, and, where appropriate, of the relationship of text to picture. The problems chosen for study will be selected from the late antique to the modern period. [52S]
Prerequisite: Any three Art History courses and P.I.
Offered in alternate years.

FAH447H Cubism and Related Movements
An investigation of the birth and development of Cubism, Futurism and Orphism in Europe, America and Canada. [2S]
Prerequisite: FAH210Y and P.I.
Recommended preparation: A reading knowledge of French or Italian
Offered in alternate years.

FAH480H/481H Studies in Ancient Art
Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the Undergraduate Secretary before registering.
Prerequisite: Six FAH courses and permission of Chairman or Undergraduate Secretary

FAH482H/483H Studies in Mediaeval Art
The same course description and prerequisites as FAH480H/481H.

FAH484H/485H Studies in Renaissance Art
The same course description and prerequisites as FAH480H/481H.

FAH486H/487H Studies in Baroque Art
The same course description and prerequisites as FAH480H/481H.

FAH488H/489H Studies in Modern Art
The same course description and prerequisites as FAH480H/481H.

Studio Advisor: Dr. Annie Smith
Most FAS courses are offered on the Sheridan Campus, Oakville. In order to be eligible for enrolment in a Sheridan FAS course, students must apply and register in person at Sheridan College, Oakville Campus. Enrolment is limited in all studio courses and the balloting is mandatory and should be completed on forms available from the Fine Art Office, Erindale or Registrar's Office, Sheridan prior to August 20, to guarantee consideration.

FAS143H Drawing I
An introduction to drawing media and techniques combining practice with analysis of draughtsmanship in stylistic and technical terms. [78P]

FAS145H Painting I
An exploration of various painting materials, discovering their characteristic properties as expressed in visual language. [78P]
Exclusion: FAS230Y(G)

FAS146H Design I
Fundamental concepts and design processes developed through manipulation and analysis of specific problems. [78P]

FAS147H Photography I
Emphasis on interaction of technique, perception, and communication in making and responding to photographic images. Covers necessary technical aspects of the medium and darkroom procedures. [78P]

FAS232H Printmaking I
An introduction to relief processes and materials encouraging experimentation and the exploration of contemporary visual concerns. [78P]

FAS234H Printmaking II
Exploration of intaglio processes and materials, together with a deeper investigation of visual expression. [78P]
Prerequisite or Corequisite: FAS232H/P.I.

FAS243H Analytical Drawing
An analytical and compositional drawing course based on natural form, man-made objects, and the figure; contemporary studio problems viewed against classical drawing traditions and visual conventions. [78P]
Prerequisite: FAS143H/P.I.

FAS245H Painting II
A continuation of FAS145H: to further expertise in major painting media and to further exploration of visual problems within the framework of 20th Century modes. [78P]
Exclusion: FAS230Y(G)
Prerequisite: FAS145H/P.I.

FAS246H Design II
A continuation of FAS146H. Problem solving activities encompassing the fundamental concepts of ratio and proportion are extended to include the heuristic, analogous and metaphoric aspects of the lateral thought process. [78P]
Prerequisite: FAS146H/P.I.

FAS247H Photography II
A continuation of FAS147H, this course further develops the use of the camera, light and light-sensitive materials for visual communication and personal expression. Investigations of historical and contemporary uses of the medium will emphasize both technical and aesthetic considerations. [78P]
Prerequisite: FAS147H/P.I.

FAS248H Three-Dimensional Materials
This course explores the application of three-dimensional concepts through direct manipulation of both contemporary and traditional materials. [78S]
Prerequisite: FAS146H/P.I.

FAS330Y Past and Present Techniques of Painting
A practical and theoretical investigation of past and present techniques in painting. Critiques and gallery visits will complement studio discipline. [156P]
Prerequisite: Any FAS200H series or any FAH100Y series/P.I.

FAS334Y Printmaking III
Exploration of serigraphic and lithographic processes and materials to further technical and aesthetic understanding of printmaking as a contemporary expression in the visual arts. [156P]
Prerequisite: FAS234H/P.I.

FAS343Y Drawing III
A continuation of FAS243H; further development of graphic skill and concepts. Drawing may be considered an end in itself, a manifestation of an idea or concept, and preparation for work in another media. [156P]
Prerequisite: FAS243H/P.I.

FAS345Y Painting III
A continuation of FAS245H. Greater attention will be given to individual development in the perceptual and conceptual understanding of contemporary art. [78P]
Exclusion: FAS331Y(G)
Prerequisite: FAS245H/P.I.

FAS347Y Photography III
An applied course in more advanced photographic practice and thinking; traditional and alternate processes will be used to further explore the documentary and expressive content of still photography. [156P]
Prerequisite: FAS247H/P.I.

FAS348Y Sculpture
An exploration of contemporary concepts, images and materials in three-dimensional works derived from both natural forms and man's intellectually imposed order on space. Students will be required to render three-dimensional works in a variety of materials. [156P]
Prerequisite: FAS248H/P.I.

FAS434Y Individual Investigations in Printmaking
Students must present both written and oral proposals for their term studies. The final submission and evaluation shall consist of a portfolio and/or exhibition of original prints, test experiments, and evidence of research resulting from the students' investigations. [156P]
Prerequisite: FAS334Y, P.I.

FAS445Y Individual Investigations in Painting
A proposal of the specific area of research, including a list of ongoing professional liaison activities, bibliography, complementary studies and objectives. [156P]
Prerequisite: FAS345Y, P.I.

FAS447Y Individual Investigations in Photography
Advanced Photography. Proposals for term work must be presented in both written and oral forms. Emphasis upon student initiative and investigation leading to a final evaluation of the portfolio or original prints, test experiments, and evidence of research. [156P]
Prerequisite: FAS347Y, P.I.

FAS448Y Individual Investigations in Sculpture
The student explores and executes significantly personalized statements reflecting contemporary and projected directions of three-dimensional works. Students must present both written and oral proposals to establish criteria and parameters within which the work will be evaluated. [156P]
Prerequisite: FAS348Y, P.I.

Faculty Advisor: Professor M.-P. Ducretet

The impact of French culture on the world as we know it has been profound and lasting. Indeed, no understanding of European and North American patterns of thought is complete without a prior understanding of the contributions made to those patterns by Francophones on both sides of the Atlantic. The French programme at Erindale College offers students a wide range of courses designed to provide the basis for the study of our French heritage.

For students wishing to pursue a programme leading to a high level of competence in French, we offer two series of language courses (FRE101Y, 121Y, 161Y, 261Y, 361Y, for non-specialists; FRE150Y/161Y/171Y, 271Y, 301H, 371Y, for specialists) using modern methods and maximizing contact with instructors. Native speakers of French are not permitted to take for credit FRE161Y, 171Y, 261Y, 271Y, 361Y. Such students, however, will be admitted to any course for which FRE161Y/171Y is a prerequisite.

For those wishing a full programme of French Studies, our introductory and upper-year offerings in linguistics and literature completely satisfy the requirements for specialist or major certification in French Language and Literature and major certification in French Language and Linguistics. These offerings comprise a variety of fields: French as a language system (including Business French); critical approaches to literature (including computerized text analysis); and the study of both French and Québecois literatures.

Note: Completion of at least 3 courses in the specialist programme and an average of 70% in 2 of the 3 courses, may entitle a student to participate in third year in the Study Elsewhere Programme at Aix-en-Provence. Information concerning the Diploma Programme in Translation may be obtained from Woodsworth College at 978-8713s

The series FRE161Y, 261Y, 361Y, which may constitute a minor programme, is intended to provide instruction for students specializing in other disciplines who wish to develop a practical knowledge of French. The series emphasizes self-help beyond the limits of the individual courses.

Please see section 5 for details of Programme Requirement.

NOTE: All courses listed below may be counted toward a Specialist or Major programme in *French Language and Literature*, *French Language and Linguistics*, a Combined Specialist or Combined Major in *Modern Languages and Literatures*, in *Latin and French* or in *Linguistics and French*, with the following exceptions: FRE101Y, 121Y, 261Y, 361Y.

NOTE: Students who are not specializing or majoring in French may be admitted to French courses in Literature and Linguistics, with permission of the Department, if they demonstrate sufficient linguistic competence. Students seeking admission to FRE101Y and 121Y will be required to provide a high school record as evidence of their level in French. Particularly well-qualified students may, as the result of a language proficiency test, be permitted to enrol in 200 level language courses. Native speakers of French are excluded from 100 level language practice courses, and from FRE261Y and 361Y.

FRE101Y Introductory French I
A basic course for beginners in spoken and written French: comprehension, speaking, reading, and writing. [78S, 52P]
Exclusion: Not open to students who have studied French in secondary school; not open to native speakers of French.

FRE121Y Introductory French II
Spoken and written French, reinforcing oral/aural competence, reading comprehension, and writing skills. [78S, 52P]
Exclusion: Not open to native speakers of French, nor to students with standing in Grade 13 French.
Prerequisite: FRE101Y, or some background in secondary school French

FRE150Y Introduction to French Literature
An introduction to the study of French literature through a chronological consideration of works by major authors from the Middle Ages to the present day. This course will serve as a useful background for upper-level literature courses and is strongly recommended for both specialists and non-specialists. [52L, 26T]
Prerequisite: FRE121Y/Grade 13 French

FRE161Y Practical French I
For students who wish to maintain and improve their general knowledge of French. Emphasis will be placed on comprehension, expression, and self-instruction. [78S]
Exclusion: FRE171Y. Not open to native speakers of French or immersion graduates.
Prerequisite: FRE121Y/Grade 13 French

FRE171Y Language Practice I
A course designed to reinforce those language skills (understanding, speaking, reading and writing) necessary for active participation in courses offered by the Department. Particularly recommended for students who intend to specialize or major in French. [78S, 26P]
Exclusion: FRE161Y. Not open to native speakers of French or immersion graduates
Prerequisite: FRE121Y/Grade 13 French

FRE210Y Introduction to Québec Literature
An introduction to the study of Québec literature (novel, drama, poetry) from its origins to 1960, with special consideration given to the historical, cultural and literary background. Particularly recommended as a first course on Québec literature. [26L, 26T]
Exclusion: FRE230Y, 419H(G)
Prerequisite: FRE150Y/161Y/171Y
Offered in alternate years.

FRE220Y The Literature of Classicism
Major writers of the seventeenth century, with emphasis upon the aesthetic and moral characteristics which constitute "classicism". [26L, 26T]
Prerequisite: FRE150Y/161Y/171Y
Offered in alternate years.

FRE224Y The Literature of Romanticism
French Romantic poetry, novels and plays of the eighteenth and nineteenth centuries. Origins of the movement and its later manifestations. [26L, 26T]
Prerequisite: FRE150Y/161Y/171Y
Offered in alternate years.

FRE225H Computer Applications in French
For students who wish to familiarize themselves with the use of computers for text analysis in literature and linguistics. [13L, 13T]
Prerequisite: FRE150Y/161Y/171Y/P.I.

FRE240Y Studies in Modern French and Québec Literature
(Formerly FRE140Y)
Techniques of literary criticism and analysis, based on a detailed study of works selected from the novel, drama and poetry of the nineteenth and twentieth centuries. [52L, 26T]
Exclusion: FRE140Y
Prerequisites: FRE150Y/161Y/171Y or Departmental permission

FRE256H Women and Literature
The relationship between women, society and literature, stressing the historical and ideological background of literary works: novels, essays, plays and poetry. Focus on different periods and national traditions: French, Québécois, African or Caribbean. [13L, 13T]
Prerequisite: FRE150Y/161Y/171Y

FRE261Y Practical French II
For students who wish to maintain and improve their general knowledge of French while specializing in other fields of study. Emphasis will be placed on the skills of comprehension, oral and written expression, and self-instruction (newspapers, radio, television, theatre). [78S]
Exclusion: Not open to native speakers of French
Prerequisite: FRE150Y/161Y/171Y

FRE271Y Language Practice II
A course designed further to improve the student's competence in written and oral French. [78S, 26P]
Exclusion: FRE261Y. Not open to native speakers of French
Prerequisite: FRE150Y/161Y/171Y

FRE272Y The Structure of Modern French: An Introduction
The phonological, morphological and syntactical systems of modern French. [26L, 26T]
Prerequisite: FRE150Y/161Y/171Y

FRE273Y General History of the French Language
The changes by which the Latin spoken in northern Gaul became today's French. Phonetic, morphological, syntactic and semantic evolution; regional, dialectical and social variations; the question of French in Canada; attitudes of men of letters (writers, grammarians, and scholars); political and social history. [26L, 26T]
Prerequisite: FRE150Y/161Y/171Y
Offered in alternate years.

FRE301H Business French
A study of vocabulary, grammar and writing techniques involved in business situations (e.g., economics, industrial relations, law, marketing). [39L]
Prerequisite: FRE261Y/271Y

FRE310Y Québec Novel from 1960
A critical study of major texts using various critical approaches. [26L, 26T]
Exclusion: FRE333Y
Prerequisite: One 200 series FRE "Specialist" course
Offered in alternate years.

FRE322Y The Literature of the Enlightenment
The revolution in social, political, religious and intellectual values which characterized the literature of the 18th century. [26L, 26T]
Prerequisite: One 200 series FRE "Specialist" course
Offered in alternate years.

FRE358Y French Theatre from 1900
(Formerly FRE354Y and 423H)
A critical and theoretical study of twentieth century theatre stressing the ways in which various playwrights have experimented with language and representation for the stage. [26L, 26T]
Exclusion: FRE354Y, 423H
Prerequisite: One 200 series FRE "Specialist" course
Offered in alternate years.

FRE361Y Practical French III
For students who wish to maintain and improve their general knowledge of French while specializing in other fields of study. Emphasis will be placed on the skills of comprehension, oral and written expression, and self-instruction (newspapers, radio, television, theatre). [78S]
Exclusion: Not open to native speakers of French
Prerequisite: FRE261Y/271Y

FRE364Y Prose Fiction from 1800 to 1900
The ways in which such writers as Balzac, Stendhal, Flaubert, Maupassant and Zola developed the techniques of the novel while exploring such themes as ambition, alienation and class struggle. [26L, 26T]
Prerequisite: One 200 series FRE "Specialist" course
Offered in alternate years.

FRE371Y Language Practice III
Further work in written and spoken French, with emphasis on both literary and informal usage. [78S, 26P]
Prerequisite: FRE271Y

FRE375Y Comparative Stylistics
A comparative study of the characteristics of French and English expression and how they pertain to the problems of translation. [26P, 26T]
Prerequisite: One 200 series FRE "Specialist" course

FRE376H French Phonology and Phonetics
Fundamental notions related to the characteristics of the phonetic and phonological systems of modern French. [13L, 13T]
Prerequisite: One 200 series FRE "Specialist" course
Offered in alternate years.

FRE378H French Syntax
Various modern approaches to syntax. [13L, 13T]
Prerequisite: One 200 series FRE "Specialist" course
Offered in alternate years.

FRE426Y Prose Fiction from 1900
(Formerly FRE366Y and 424H)
The ways in which twentieth century writers have explored the diverse spiritual, intellectual and psychological conflicts of their society while refining traditional forms of the novel and promoting innovative approaches to the problems of narration and representation. [26L, 26T]
Exclusion: FRE366Y, 424H
Prerequisite: Two 200+ series FRE "Specialist" courses
Offered in alternate years.

FRE475Y Practical Translation
English to French and French to English. Texts are drawn from literature, business, economics, politics, science, art and advertising. [26L, 26T]
Prerequisite: FRE375Y and two 200+ series FRE "Specialist" courses
Offered in alternate years.

FRE490Y Senior Essay
A senior essay is an independent research project on either a literary or linguistic topic chosen by the student and supervised by an instructor. [TBA]
Prerequisite: Permission of the Department

FRE491H Independent Study
Individual study with a member of staff on a topic of common interest including readings, discussions and papers. [TBA]
Prerequisite: Permission of the Department

Faculty Advisors: Professors G.H.K. Gad, C.J. Houston, S.H. Luk

Geography seeks to understand the processes which have brought about current landscapes and current patterns of land-use. Physical geography draws on the earth sciences to understand processes in the biosphere, lithosphere and hydrosphere that lead to distinctive variations or similarities from place to place in the physical environment. Human geography, more concerned with people's use of the earth, draws on the humanities and social sciences in order to understand the creation and organization of distinctive regions, economies and landscapes. A third focus of geography, that of environmental management, seeks to combine the traditions of human and physical geography; the physical basis of environmental deterioration and policy alternatives for contending with such deterioration are of central concern. Together, these three approaches offer a deliberately broad range of topics, and students are encouraged to explore the breadth of geography, as well as develop an emphasis in one of its subfields (e.g. urban geography within human geography).

At Erindale, the geography curriculum places considerable stress on experiential learning. Field studies are an important component of the programmes at all levels and in all areas of the curriculum. They complement lectures, provide material for workshops, develop skills in geographical methods, encourage student involvement in basic enquiry, and build student-staff cooperation. Field work often takes place on the College grounds, in the metropolitan area nearby and further afield in rural Ontario. The demands of field studies have taken students and staff to Vancouver, Montreal, the tundra of Iceland and the medieval cities of Europe.

In a world of fluctuating demand for specialists of any kind, the integrative qualities of a geographical education can serve as a useful basis for a wide variety of research, clerical and managerial positions that might be open to candidates with breadth, depth and insight. In the past, geography students have found employment in a wide variety of activities, such as planners with municipalities and provincial government departments, environmental analysts with consulting firms, or transportation and location analysts in a wide range of industry and commerce. A significant number of geography students have been successful in gaining admission to master's programmes in such fields as urban and environmental planning, library science, business administration or undergraduate programmes in law and architecture.

Geography offers a three year (15 course) Major and a four year (20 course) Specialist degree (for degree regulations see section 3 of this calendar). Within the Major or Specialist programmes students can concentrate in sub-fields of Geography, such as cultural-historical geography, the geography of cities, environmental management or the physical environment. They may also wish to gain breadth by combining study in several sub-fields.

There are close links with other disciplines and interdisciplinary programmes. Geography students often combine their geography courses with work in Approved Areas of Study such as Canadian Studies, Urban Studies, Population and Society, Earth Resources, Environmental Science or Material Culture (see section 5 programme descriptions).

Students in other disciplines should find many courses within Geography that complement their interests and expertise. Students with programmes in fields from literature to geology, from chemistry to history, or from fine art to economics may find in geography new ways of combining and developing their knowledge. To allow for this rich opportunity to associate many fields with Geography, courses in the Erindale programmes have few prerequisites. A Geography Handbook is available for detailed description of programmes.

In addition to JBG230Y, the following Geography courses are counted as Natural Science courses: GGR100Y, 201H, 202H, 205H, 206H, 207H, 212H, 214H, 276H, 280H, 300H, 301H, 302H, 303H, 304H, 307H, 312H, 316H, 374H, 376H, 377H, 379H, 381H, 491Y.

Please see Section 5 for details of Programme Requirements.

GGR100Y Introduction to Physical Geography
World climates, vegetation, hydrology, soils and the physical landscape. Interactions between different sectors of the physical environment are described; the role of man in the physical geographic system is illustrated. [52L, 26P]

GGR131Y Introduction to Human Geography
Variations in economic and social organization in pre-industrial and technologically-advanced societies: man's role in landscape change, as expressed through the location of agriculture, industry, and cities. [52L, 26T]

GGR201H Geomorphology: The Science of Landforms
This course will discuss glacial processes and landforms with special reference to Ontario. Other topics including weathering, slopes, and fluvial geomorphology will also be introduced. Field trips required. [26L, 13P]
Prerequisite: GGR100Y/JBG230Y

GGR202H(I) Statistics
Acquaints beginning students with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. [26L, 13P]
Exclusion: Any concurrent or previous Statistics course

GGR205H Principles of Soil Geography
The physical and chemical properties of soils; processes of soil formation; factors of soil formation; systems of soil classification; field and laboratory tests of soil properties. [26L, 13P]
Prerequisite: GGR100Y/JBG230Y
Recommended preparation: Grade 12 or Grade 13 Chemistry

GGR206H Introduction to Hydrology
Theoretical and practical aspects of surface and groundwater hydrology, together with the consideration of problems in water resource development. Measurement of streamflow, hydrograph analysis, physics of groundwater flow, snowmelt-runoff relationships, and urban hydrology. [26L, 13P]
Prerequisite: GGR100Y/JBG230Y

GGR207H Aerial Photo Interpretation
The aim of the course is to teach students to extract, interpret and apply the vast quantities of information present on an air photograph. Considerable attention also is given to presentation of aerial photographic information in mapped form. Students are reminded that GGR202H, GGR212H and GGR207H are a group of related courses and are required for the specialist degree in geography. [26L, 13P]
Prerequisite: GGR280H

GGR212H(I) Application of Statistics
A continuation of GGR202H including an introduction to non-parametric, analysis of variance and linear regression techniques. Students interested in taking this course should consider carefully the courses listed below as exclusions and choose the appropriate sequence after discussion with faculty members. [26L, 13P]
Exclusion: STA212H, 222Y(G), 242Y, 252Y(G), PSY201H, ECO220Y, BIO361H, SOC201Y
Prerequisite: GGR202H

GGR214H Climatology
Meteorological basis of climate; general circulation of the atmosphere and influence on climatic change; interaction between man and climate. Instruments and measurement techniques are examined in laboratory sessions. [26L, 13P]
Exclusion: GGR203H
Prerequisite: GGR100Y/JBG230Y
Recommended preparation: Grade 13 Mathematics

GGR220Y Regional Economic Models
An introduction to location, structure and interaction. Use of location theory in explaining industrial and agricultural patterns, transport networks and flow systems, regional economic development. [52L, 26T]

JBG230Y(I) Man and Environment
Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Problems of current environmental concern - land use, material and energy resources, pollution are considered and illustrated by case studies from different parts of the world. Given by the Departments of Biology and Geography. This course complements GGR233Y. [52L, 26T]
Exclusion: JBG130Y

GGR233Y Energy, Natural Resource and Environmental Management
Concepts in the management and decision-making process which shape the environment. Environmental quality, impact of technology on society and nature, and evaluation of alternatives. The course is future-oriented, concerned with public policy, and adopts a world-view from a Canadian standpoint. This course complements JBG230Y. [52L, 26T]
Prerequisite: Any 4 full course credits

GGR245Y(I) Urban Canada
An introduction to urban studies through an examination of the development and character of the urban fabric and urban life in Canada. [52L, 26T]

GGR253Y Cultural Geography
Social change and the resultant imprint on both urban and rural landscapes in preindustrial and modern societies. Special emphasis on the Ontario cultural landscape. [52L, 26T]
Prerequisite: Any 4 full course credits

GGR255H Perspectives On Current Population Issues
Current discussions on the "population problem" are examined in light of historical writings. Optimum population size and political strength and the tradition of pessimism in population theory. [26L, 13P]
Prerequisite: Any 4 full course credits

GGR263H Historical Geography of Ontario
Ontario from its founding to the early 20th century: settlement and ethnic roots, agriculture, transport, industrial growth and urbanization. The cultural landscape and regional literature will receive attention. Field trip. [26L, 13T]
Exclusion: GGR 351Y
Prerequisite: at least 4 full course credits

GGR276H Introduction to Data Processing in Geography
Practical instruction in the use of computers to solve geographical problems. An introduction to programming in a general purpose language and a special purpose language. [26L, 13P]
Prerequisite or Corequisite:GGR202H and 212H, two other courses in Geography

GGR280H Cartography
The use of maps and techniques of map making; topics include map interpretation, elements of cartographic design and mapping statistics. The aim of the course is to permit students to develop an areal or spatial perspective which they may bring to their studies in geography. [13L, 26P]

GGR300H Field Studies
Investigation of physical and socio-economic phenomena out-of- doors. Field observations and samples collected during a week-long field camp are analysed and the findings are submitted in a series of reports. Each student must pay the cost of transportation and accommodation. [39P]
Prerequisite: Any 8 or more course credits

GGR301H Environmental Geomorphology
Geomorphological aspects of environmental management. Topics will include: erosion and desertification; river channel changes; sedimentation; landsliding; floodplains and flooding; material resources; permafrost; land systems and geomorphological mapping. [26L, 13P]
Prerequisite: Any two of GGR201H, 205H, 206H, 214H
Offered in alternate years.

GGR302H Fluvial Geomorphology
Concepts of fluvial systems; slope processes;fluvial sediment entrainment and transport; sediment yield; stream morphometry; changes in time. [26L, 13P]
Prerequisite: GGR201H, GGR206H
Offered in alternate years.

GGR304H Climate Near the Ground
Elements of microclimatology as they apply to the environment of plants and animals. The role of the surface in controlling energy and water exchange within bioclimatic systems will be emphasized. The movement of contaminants will also be discussed. [26L, 13T]
Prerequisite: GGR206H/214H
Offered in alternate years.

GGR307H Soil Management
Application of soil geography to problems of resource use and management. Soil erosion processes and conservation techniques. Soil water management. Drainage and reclamation of wetland soils. Soil pollution issues. Soil capability classification. Selected problems of soils in arid and semi-arid regions, the humid tropics, as well as the Arctic and sub-Arctic. [26L, 13P]
Prerequisite: GGR205H
Offered in alternate years.

GGR312H Permafrost Environment
Study of physical geography in permafrost areas. Topics include: formation and distribution of permafrost; ground ice; geomorphological processes; hydrology; terrain disturbance; problems of construction and resource development. [26L, 13P]
Prerequisite: GGR201H/206H
Recommended preparation: Grade 13 Mathematics
Offered in alternate years.

GGR316H Hillslope Geomorphology
Systems approach to hillslope geomorphology studies; processes of erosion and deposition; mass wasting; slope forms of humid and arid regions; process-response models; applied aspects. [26L, 13P,]
Prerequisite: GGR201H
Recommended preparation: Grade 13 Mathematics
Offered in alternate years.

GGR324H Geography of Urban and Regional Transportation
Principles of transport and land use; characteristics of transportation networks and movements; transportation and economic development, past and present; geographical aspects ofcontemporary transportation problems. [26L, 13T]
Prerequisite: GGR202H

GGR325H Spatial and Locational Theory
Modern theoretical geography, spatial economics and regional science. Analysis of spatial form, transport process, land use theory, locational analysis, central place theory, human movement in geographical space. Planning and policy questions. [26L]
Recommended preparation: GGR220Y
Offered in alternate years.

GGR330Y Rural Land Use
Agricultural origins, agricultural ecology and the economic development of agricultural patterns; the concept of agricultural region and distribution of agricultural types. [52L, 26P]
Prerequisite: One GGR course
Offered in alternate years.

GGR333H Geography of Energy in Canada
Regional supply/demand pattern; production and delivery systems; available supplies; end uses and efficiencies; major proposed energy projects. [26L, 13T]
Recommended preparation: GGR220Y/233Y/361Y
Offered in alternate years.

GGR334H Water Resources Management
Canadian problems in water resource management; a selection of topics related to policy will be covered, e.g. forecasting the demand for water, inter-basin and inter-national water transfers, industrial and urban water supply and wastewater management, flood/drought as natural hazards, the Great Lakes, water supply in developing countries. [26L, 13T]
Recommended preparation: GGR233Y
Offered in alternate years.

GGR335H Environmental Modelling
An application of environmental models to contemporary problems of decision-making. The course will demonstrate the relevance of techniques of data management (statistics, computer systems) to issues facing Canada and the global community. [26L, 13P,]
Prerequisite: Any 8 full course equivalents, including GGR202H/(a course in STA)

GGR339H Urban Geography and Political Processes
The spatial bases of political power and the allocation of benefits from the public purse with a Canadian urban focus. Urban landscape and public policy. The distribution of urban activities in space; public institutions and policies; impact of legislation on the spatial distribution of urban phenomena. [26L, 13T]
Recommended preparation: GGR245Y/220Y
Offered in alternate years.

JGS340Y Concepts, Methods and Values in Urban Studies
Designed for students concentrating in urban studies irrespective of major disciplinary area. A survey of a variety of types of urban study from the social science perspective. Linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. Given by the Departments of Geography and Sociology. [52L]
Prerequisite: SOC101Y/216Y, SOC205Y/ GGR245Y, SOC200Y/201Y/ (GGR202H, 207H, 280H)

GGR344Y Geography of the Soviet Union
A survey of the geography of the Soviet Union, through an examination of topics ranging from the territorial expansion of the Russian state to contemporary issues in planning and development. Comparison of Soviet conditions with more familiar North American situations. [26L, 13T]
Prerequisite: Two GGR courses

GGR346H The Urban Planning Process In Canada
Introduction to planning as a conscious collective activity which can or actually does shape the city. Reflection upon the nature of urban planning, rather than discussion of particular urban development issues is emphasized. Major themes: the legal framework of planning in Ontario, outline of planning history, current issues in planning theory. The course may include one week-long internship in a planning office. [26L, 13T]
Prerequisite: GGR245Y/SOC205Y

GGR349H Workshop in Advanced Urban Geography
(Formerly GGR349Y)
This course emphasizes research and field work related to housing and the residential environment. It will contain a mixture of lectures, seminar discussions and independent work. Research topics will be selected according to current interests of students and staff. [26L, 13T]
Exclusion: GGR349Y
Prerequisite: GGR357H

GGR353H History of the Canadian Environment
For more than four centuries Canadian territory has been the subject of use and abuse by mankind. This course deals with the exploitation of natural and cultural resources from prehistoric times, with major emphasis on the consequences of technological innovation after 1800 and the growth of the conservation movement. [26L, 13T]
Prerequisite: Any 8 full course equivalents
Offered in alternate years.

GGR357H Geography of Housing and Housing Policy
An introduction to housing as both product and process. The analysis of housing markets in a spatial context, emphasizing the transaction mechanism, residential location and housing choice, the role of the state, public housing and the relationships of housing changes to patterns of mobility and neighbourhood change. Case studies of specific policy issues and alternative housing strategies. [26L, 13T]
Prerequisite: GGR245Y

GGR361Y Canadian Contemporary Regional Studies
A study of the spatial relations and distribution patterns of the physical phenomena, present and potential resources, population, and regional economic development. [26L, 13T]
Prerequisite: Any two GGR courses
Offered in alternate years.

GGR363H Geography of the Seas
The relationship of mankind to the oceans, from ancient to modern times: exploration, trade, migration, technology, oceanic resources, ports, coastal land use, and sovereignty. The seas in lore and literature. [26L, 13T]
Exclusion: GGR351Y
Prerequisite: At least 8 full course equivalents

GGR364H Historical Geography of Ethnic Groups in Canada
The creation and survival of ethnic communities in Canada with particular emphasis on rural settlements. Aspects of ethnic territoriality, the stability of ethnic communities, and the adaptation of immigrants to the Canadian environment. [26L, 13T]

GGR374H Water Quality
An introduction to the physical and chemical characteristics of natural water with emphasis on their importance to industrial and domestic supplies. Topics included are: measurement and analysis of dissolved and suspended constituents, chemical equilibrium in dilute aqueous solutions, and spatial variability of water quality with emphasis on Southern Ontario. [26L, 13P]
Prerequisite: Grade 13 Chemistry/CHM135Y/150Y, GGR206H
Offered in alternate years.

GGR376H Groundwater Hydrology
An introduction to the principles of groundwater flow with emphasis on their application to the development of groundwater supplies, construction dewatering, and contaminant migration. The main components of the course are: theory of groundwater flow, well drilling procedures and construction, data collection and evaluation, groundwater chemistry, groundwater assessment procedures, dewatering system design, and simple groundwater models. [26L, 13P]
Prerequisite: Grade 13 Chemistry/CHM135Y/150Y, GGR206H
Offered in alternate years.

GGR377H Environmental Monitoring
Techniques of point measurement of environmental parameters are examined with particular emphasis on air and water pollution. Problems of sampling in time and space are subsequently treated with a view to designing pollution indices. Applications to human health, government policy and industrial activity are noted. [26L, 13P]
Prerequisite: JBG230Y/one full course equivalent from GGR201H, 202H, 206H, 207H, 214H
Offered in alternate years.

GGR379H Advanced Field Methods in Physical Geography
Structured around field work, the course will include at least one major field trip. Students will be responsible for reading selected articles relating to the study areas prior to visiting the field. Projects will involve mapping of physical features (i.e., geologic structures, vegetation, soil, water) on a preliminary basis from aerial photographs in the laboratory and subsequently in the field. The intention is to conduct the major field trip outside Southern Ontario to provide a contrasting environment for the students (who, it is assumed already have some familiarity with the local area). [39P]
Prerequisite: Any 3 courses drawn from one or more of the following: Physical Geography, Geology and Biology
Offered in alternate years.

GGR381H Research Design
Designed to give students experience in the definition of and proper approach to a research study. Sampling schemes, analytical procedures, and thesis or report formats are also covered. Students prepare a paper on the research problem which they would intend to pursue in fourth year. In addition to the statement of purpose, the paper embodies a thorough review of pertinent literature and where appropriate, data from interviews with experts in the field, personal observations and/or preliminary sample analyses. [26P]
Prerequisite: Any 10 or more course credits

GGR389H Advanced Field Studies in Human Geography
This course involves students in advanced methods of field work in human geography. Emphasis is placed on the integration and interpretation of documentary evidence (historical and archaeological) with the physical evidence in the field, including the interpretation of landscape change. A one week field camp in a North American locale is required. [39P]
Prerequisite: GGR280H
Offered in alternate years.

GGR441H Advanced Topics in Urban Studies
An advanced seminar dealing with topics in urban studies, to be selected according to staff and student interests. Topics include images of cities and the spirit of place, the city in history, social theory and the city. [26P]
Prerequisite: 15 or more full course credits

GGR491Y B.A./B.Sc. Thesis
A research project, each student working on a topic of his choice under the individual guidance of a member of the staff. Copies of the thesis are to be submitted by March 1, and the student will present it before an examining committee.
Prerequisite: GGR381H, 6 GGR courses, 15 or more full course credits
Exclusion: All other courses in independent research

JBG491Y Environmental Research Project
Independent research on an environmental topic carried out under the supervision of a staff member whose written consent is required for registration. This project is open to third and fourth year students. A written report of the research will be required and a seminar presentation may be required.
Exclusion: All other courses in independent research

Faculty Advisor: Professor C. Saas
For more than two hundred years Germany, Austria, and German-speaking Switzerland have played increasingly important roles in European life, both as leaders in commerce and industry and as the homelands of outstanding musicians, philosophers, scientists, psychologists, and religious and political thinkers. Their scholars have excelled in such fields as Religious Studies, Mediaeval Studies, Philosophy, Literary Studies, Classics, Archaeology, History of Art and Music, Physics, Chemistry and Mathematics.
German writers are equally distinguished. Beginning with a vigorous medieval literature and continuing through Lessing, Goethe, and Heine to Kafka, Thomas Mann, and Brecht, German literature has treated the widest possible range of human problems: philosophical and psychological, moral and religious, social and economic. University courses in German offer a thorough study of the more important authors from the Middle Ages to modern times.
The Department also offers a variety of language practice courses taught primarily in German on the intermediate and advanced levels, including grammar, translation, conversation, essay-writing, stylistics, and laboratory work. Two courses deal with the history and structure of the language. To consolidate language learning and improve oral fluency the Department co-operates with the German Government whenever possible in sponsoring flights to Germany and summer work for a limited number of undergraduates.
As one of the major languages in a shrinking world, German is valuable in itself as a means of communication. It is particularly useful in careers such as the foreign service, customs and immigration, business and commerce, civil service, interpretation and translation, librarianship, radio and television, music, tourism, and of course teaching. A knowledge of German is a virtual necessity for specialists in certain disciplines, such as Music, Fine Arts, Classics, Theology, and Philosophy. As a literature, German may be studied alone or in combination with other languages and literatures, with Linguistics, Philosophy, or History. The successful completion of a four-year programme, including seven approved courses in German, may entitle a student to do work in the Graduate Division of the Department.
The Department prefers that students come to the university with Grade 13 German. However, since not all high schools offer this programme, an introductory course in German is available for students with little or no previous knowledge of the language. Upon completion of this course (GER100Y or 101H) students enter the regular stream of study. In addition, courses are available at the beginning and intermediate level in Reading German (GER105Y/205Y) for students

in departments or faculties requiring a knowledge of scholarly German. Students who desire information regarding German studies are advised to confer with Professor C. Saas (828-5275).
It is recommended that students who wish to specialize or co-specialize in German also take CLA261Y in First or Second Year.

Please see Section 5 for details of Programme Requirement.

GER100Y Introductory German
An intensive language course for students with no previous knowledge of German. Practice in comprehension, reading, writing and speaking. [78L, 52P]
Exclusion: Grade 13 German/GER101H/105Y

GER101H Introductory German: Continuation
An intensive language course for students who have studied some German, but who have not yet attained Grade 13 level. Practice in comprehension, speaking, reading, and writing. This course is the spring term of GER100Y. [39L, 26P]
Exclusion: Grade 13 German/GER100Y/105Y

GER202Y Language Practice I
Review of basic grammar, expansion of basic vocabulary, practice in comprehension and in the active skills of writing (translations, compositions) and conversation. Students intending to specialize in German must take a first-year literature course as well. The Department reserves the right to place students in the appropriate course in the series GER202Y, 210Y, 310Y/311Y, 410Y. [104P]
Exclusion: GER206Y
Prerequisite: Grade 13 German/GER100Y/101H

GER204Y The Contemporary Scene in German Literature
An introduction to German literature through the reading of texts which reflect cultural trends and socio-political issues of the German-speaking countries. [78L]
Prerequisite: Grade 13 German/GER100Y/101H with Departmental approval
Exclusion: GER206Y

GER206Y Modern German Literature: Language Practice
For students who, in addition to an introduction to German literature, want further language training. Works by such writers as Kafka, Brecht, Böll, and Borchert. A review of basic grammar, expansion of vocabulary, practice in translation and composition. [52L, 52P]
Exclusion: GER202Y/204Y
Prerequisite: Grade 13 German/GER100Y/101H
Offered in alternate years.

GER210Y Language Practice II
German at the intermediate level: extension of vocabulary, specific problems of grammar, practice in translation, essay-writing, reading and conversation. Students taking this course and intending to specialize in German must take a second-year literature course as well. The Department reserves the right to place students in the appropriate course in the series GER202Y, 210Y, 310Y/311Y, 410Y. [104P]
Exclusion: GER205Y
Prerequisite: GER202Y/206Y

GER222Y German Literature from 1870 to 1945
A study of prominent literary works in the period from the unification of Germany under Bismarck, through the Weimar Republic, to the downfall of the Third Reich. [78L]
Prerequisite: GER202Y, 204Y, 206Y

GER251Y The Development of German Cinema
German cinema from its beginnings as an art form to its current renaissance. Includes films by a such directors as Murnau, Herzog, and Fassbinder. Knowledge of German not required; previous film studies experience not required. [52S, 52P]
Offered in alternate years.

GER271Y German Civilization
A comprehensive study of German culture through the ages. Special consideration will be given to art history, music, and philosophy within the historical context. A description and analysis of present-day Germany will be included. No knowledge of German is required. This course does not count toward co-specialization in German. Available to First-Year students by permission of the instructor. [78L]

GER310Y Language Practice III
Study of idioms, translation, essay writing, reading, problems of grammar and oral practice. The Department reserves the right to place students in the appropriate course in the series GER202Y, 210Y, 310Y/311Y, 410Y. [78P]
Exclusion: GER311Y
Prerequisite: GER210Y/230Y

GER321H Literature of the Enlightenment
A study of selected works of the *Aufklärung* with emphasis on Lessing as its foremost representative. [39L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER322H Literature of the Storm and Stress
A study of some of the early works of Goethe and Schiller and their contemporaries. [39L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER326H Introduction to Middle High German
An introduction to the language, literature and civilization of Mediaeval Germany. [39L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER327H Mediaeval German Literature
Literary analysis of works such as Gottfried's *Tristan*, the *Nibelungenlied*, Middle High German poetry. [39L]
Prerequisite: GER326H
Offered in alternate years.

GER331H Young Germany and Biedermeier
Post-Romantic literature in the first half of the 19th century; authors such as Heine, Büchner, and Stifter will be studied. [39L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER332H 19th-Century Realism
The development of German literature in the wake of the Revolution of 1848. [39L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER410H Language Practice IV
Selected problems in grammar, translation, and essay writing at the advanced level; reading, and oral practice. The Department reserves the right to place students in the appropriate course in the series GER202Y, 210Y, 310Y/311Y, 410Y. [78P]
Prerequisite: GER310Y

GER421Y German Drama from Büchner to the Present: Theory and Practice
The development of modern German drama through the study of such playwrights as Büchner, Hebbel, Hauptmann, Kaiser, Brecht, Dürrenmatt, Handke and Fassbinder. [78L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER422Y Contemporary German Literature: 1945 to the Present
A study of major authors since the Second World War, including Böll, Celan, Dürrenmatt, Frisch, Grass and Christa Wolf. [78L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER425Y Goethe-Schiller-Hölderlin
Works to be studied include *Faust* I and II, Schiller's later plays and Hölderlin's poetry. [78L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER431H Early Romanticism
(Formerly GER325Y)
The origins and early manifestations of Romantic thought. Works by such authors as Friedrich Schlegel, Novalis, and Tieck. [39L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER432H Later Romanticism
(Formerly GER325Y)
The culmination of the Romantic movement, including the Heidelberg group of writers, whose works played a major role in the development of European Romanticism. Authors such as Arnim, Brentano, Eichendorff, the Grimm brothers, and E.T.A. Hoffmann will be studied. [39L]
Prerequisite: GER222Y/230Y
Offered in alternate years.

GER490H Independent Study
A reading and research project in German literature or linguistics.
Prerequisite: Permission of Department

GRK100Y Introductory Greek with Selected Readings
Introduces beginners to the ancient Greek language and prepares them for the reading of Greek literature. [104S]
Offered in alternate years.

GRK210H Socrates On Trial
Plato, *Apology of Socrates*. Further study of the language. [39S]
Prerequisite: Grade 13 Greek/GRK100Y
Offered in alternate years.

GRK213H The Wanderings of Odysseus
Homer, *Odyssey*, 6, 9, 11. Further study of the language. [39S]
Prerequisite: Grade 13 Greek/GRK100Y
Offered in alternate years.

Faculty Advisor: Professor Bruce White (From July 1, 1987, Professor D.L. Raby)
ERINDALE HISTORY HANDBOOK. A fuller description of the History programme is available in the History Handbook, which is produced in the Spring. It gives detailed information on course outlines, timetabling and programme requirements, and is available from the History Department, Room 227, North Building, phone 828-5283. It is an essential supplement to the Calendar, and students are urged to consult it.
History is exclusively neither an art nor a science, but a subtle blend of the two. The historical imagination reaches beyond the limits imposed by scientific method, but it does not enjoy unfettered poetic license. What is not required of art is required of history - to discover what the old universe was like rather than to invent a new one. We study the past in order to influence, no matter how modestly, the world around us and the world within us. Historical inquiry is always a response to the human need for information, an understanding of the broad patterns of social development. Concentration in history can provide students with the analytical skills and intellectual judgement required in a number of fields. From academic research and teaching to a career in publishing, journalism or the media, the historian's contribution is substantial. Training in history is appropriate preparation for a career in law or in government service, for example, as a researcher, archivist or policy analyst.
The history programme at Erindale is designed to give students a comprehensive view of the modern world. Strong core areas in European, Canadian and American History are supplemented by courses in British, Russian, Latin American and Third World History. Introductory 100 and 200 level courses are normally conducted as a combination of lecture and tutorial; more advanced courses are often offered as seminars, allowing students experience in independent research and in presenting their findings.
Students wishing to receive certification in History must register annually, beginning in their second year, with the History Secretary (Room 227, North Building), to ensure their progress through the programme.

Please see Section 5 for details of Programme Requirements.

HIS100Y Modern Europe, 1789-1945
Europe from the French Revolution through the Second World War. Political, economic, social and cultural aspects will be covered. [52L, 26T]

All 200 Level courses are open to first year students.

HIS200Y(I) Europe, 1300-1700
An introductory survey of European history, from the late Roman Empire to the fourteenth century, outlining the major developments which account for the shape of medieval civilization and its influence on subsequent centuries.
[52L, 26T]
Exclusion: HIS243H, 244H

HIS204Y(I) History of Italy
A general survey of the history of Italy: political, social, economic and cultural. [52L, 26T]
(Not offered in 1986-87)

HIS220Y(I) The Shape of Medieval Society
Europe from the late Roman period to the fifteenth century. A chronological survey of the various cultures that constituted medieval society and the actions and institutions that determined its particular shape. [52L, 26T]

HIS231Y(I) History of Great Britain, 1800-Present
The major themes of British history from the early nineteenth century--the effects of industrial society, the development of parliamentary democracy, the emergence of the welfare state, foreign and Empire relations, and religious, cultural and intellectual change. [52L, 26T]
Exclusion: HIS234Y, 239H

HIS233Y(I) Politics and Social Change in England, 1530-1800
(Formerly HIS230Y)
An introduction to the development of government and society in England from the sixteenth to the eighteenth century. Attention will be given to such events as the English Reformation, the Civil War, the Glorious Revolution, the beginnings of industrialization, and the challenge of the American and French Revolutions. [52L, 26T]
Exclusion: HIS230Y, 234Y, 238H
Offered in alternate years.

HIS241H(I) Europe in the 19th Century
An introduction to the principal themes of western and central European history from the fall of Napoleon to the 1890's. [26L, 13T]
(Not offered 1986-87)

HIS242H(I) Europe in the Contemporary Era
The evolution of European politics, culture, and society from 1890: the origins and consequences of the two world wars, the Bolshevik Revolution and Stalinism, Fascism and Nazism, the post-1945 reconstruction and division of Europe. [26L, 13T]
(Not offered 1986-87)

HIS248Y(I) The Industrial Revolution
The economic, technological and social transformation of European society in the eighteenth and nineteenth centuries. Why did these transformations occur when they did, and why did certain nations become industrial more rapidly and completely than others? The effects of industrial change on social structures and political organization, as well as the rise of new social classes and the interaction among them. [52L, 26T]

HIS250Y(I) Russia Since the 9th Century
A thematic approach concentrating on the modern period (post-1700). Students are encouraged to follow their own interests through independent reading and special projects. [52L, 26T]
Offered in alternate years

HIS262Y(I) History of Canada
An introduction to the social, political and economic history of Canada. Particular attention to regional diversity, the development of political movements, and the implications of economic development based on staples. [52L, 26T]

HIS271Y(I) American History Since 1607
A survey of significant developments in American history (e.g., the American colonies, the Revolution, the Civil War, industrialization, the effects of the Cold War) and important characteristics of American society (e.g., social mobility, racism, imperialism). Lectures and readings will combine the perspectives of political, social, economic and diplomatic history. [52L, 26T]

HIS289H(I) Latin America: The Colonial Era, 1492-1810
An introduction to the history of the southern two-thirds of the New World from the time of Columbus until the beginning of the struggle for independence from Spain and Portugal. [26L, 13T]

HIS290H(I) Latin America: The National Period, 1810-Present
Major themes in the history of South and Central America and the Carribbean from the Wars of Independence to the present. Discussion will focus on such issues as nationalism, development and underdevelopment, revolution, militarism and cultural identity. [26L, 13T]

HIS300Y War and the Military in American History
How Americans have approached, experienced and been affected by war, and the development and sociology of the military establishment, beginning with the nature of early modern warfare and its application in Anglo-America through United States involvement in Vietnam and the experiment with a volunteer army.
[52L, 26T]

HIS304H Numbers, Computers and History
Through a series of case studies, this course will examine the uses of quantitative evidence in history, and the role of computers in analyzing such evidence. Case studies will include the economic basis of slavery; the "rise of the gentry"; historical trends in births, marriages, and death; labor unrest; and voting behavior. In each instance, published works will be discussed and criticized, and simple exercises (some involving computers) will be used to demonstrate the methods and problems associated with this branch of historical study. [13L, 13T]
Prerequisite: One 300 level History course

HIS307H The Russian Revolution of 1917
The fall of the Romanovs and the coming to power of the Bolsheviks have been subjects of intense controversy for more than 60 years. This course will examine the principal interpretations of these events by focusing on original sources from 1917, e.g., memoirs, resolutions, diplomatic and journalistic reports, all of which are abundantly available in English. Each student will focus on a single party or personality, whose actions and ideas will be followed through the tumultuous days of 1917. [26L]
Prerequisite: One course in Modern European History

HIS308Y The History of Women since 1500
This course will look at some important aspects of women's lives that have changed in the past four hundred years - the value and nature of women's work: the relationship between work and personal relationships; the role of women in the family and the involvement of women in public and political life. Although the course will mainly look at European sources, and the experiences of European women, it will consider American material insofar as it is supplementary or illustrative. [52L, 26T]
Recommended preparation: A course in European history

HIS309H The Atlantic Provinces, 1500-Present
An historical introduction to an often neglected region of Canada. Emphasis on the chronic economic underdevelopment of this region, the cause of dissatisfaction in the hinterland and the development of a regional identity. [13L, 13T]
Prerequisite: HIS262Y
Offered in alternate years.

HIS313Y Canadian Labour and the Left
A study of the growth of the Canadian labour movement since Confederation and of the related development of Canadian radicalism. Social, economic and regional themes will be incorporated. [52S]
Prerequisite: HIS262Y/POL100Y

HIS314Y French Canada Since the Conquest
The development of the French-Canadian community in Canada, French-Canadian nationalism, the political and economic development of Quebec, and the cultural evolution of French-Canadian society both within and outside of Quebec. [52S]
Prerequisite: HIS262Y
Offered in alternate years.

HIS319Y Social Movements in 20th Century Canada
An examination of social movements and political protest in Canada from the 1890's to the 1970's. Particular attention will be given to the growth and impact of the social gospel, temperance and prohibition, trade unions, socialist parties, women's movements, regional protest and French Canadian nationalism. [26L, 26T]
Offered in alternate years.

HIS326Y Europe 400-1100
This course examines the transition from ancient to medieval society and the main elements shaping the distinctive civilization of early Europe. Major topics: barbarian culture in the pre-Roman and Roman iron age; paganism and christianity; the problem of the "Fall of the Roman Empire"; law and society in late antiquity and the early Middle Ages; the world of Gregory of Tours; the empire of Charlemagne; early feudalism. [52S]
Offered in alternate years

HIS327Y War and Revolution in 19th Century Europe
The impact of war and revolution on European history from Napoleon to the First World War. Major topics will include the Napoleonic Empire and the Vienna Settlement, the Revolutions of 1830, the Revolutions of 1848, the Crimean War, the wars of Italian and German unification, the Russo-Turkish War, war and colonial expansion, the Russo-Japanese War and the Russian Revolution of 1905, the Balkan Wars, and the outbreak of war in 1914. [52S]
Prerequisite: P.I.
Offered in alternate years

HIS329Y The Conflict of Nationality in Modern Ireland
A topical analysis of modern Irish history concentrating on the conflict of constitutional, social, revolutionary and cultural nationalism. Topics include Fenianism, Home Rule, the 1916 rising, the partition of Ireland and Ulster's time of troubles since 1968. [52L]
Exclusion: SMC348Y

HIS334H Multinational Corporations and International Relations
A study of the emergence of multinational corporations and their impact on international relations since the late 19th century. Major topics will include: the methods and pace of expansion of multinational enterprise; the relationships of multinationals with their parent governments, with other developed countries and with underdeveloped societies; multinational corporations and war. [13L, 13T]
(Not offered in 1986-87)

HIS335H Mexico: From Conquest to Independence (1519-1810)
The formation of the Mexican nation from the destruction of the Aztec empire by Herman Cortes and his band of adventurers, through 300 years of Spanish colonial rule to the outbreak of the struggles for independence. [13L, 13T]
Recommended preparation: HIS289H/290H
(Not offered in 1986-87)

HIS337Y British History, 1815-1914
The major themes of British history from the late 18th Century: the emergence of industrial society, the fate of aristocracy and religion, cultural and intellectual change, foreign relations, constitutional development and political history. [52S]
Prerequisite: P.I.
(Not offered in 1986-87)

HIS338Y From Empire to Welfare State, 1906-Present
A topical analysis of political, economic and social issues in modern British history. Themes include the decline of the Liberal Party, the impact of two world wars, the making of the welfare state, Empire developments, post-war Labour and Conservative Britain. [52L]
(Not offered in 1986-87)

HIS343Y France and Germany 1848-1945
A comparative study of the development of France and Germany from the revolutions of 1848 to the end of the Second World War. Emphasis will be on the interaction of economic, social and political developments - including the diplomatic relations between them - but students will be free to pursue topics in intellectual and ideological history. [52S]
Prerequisite: P.I.
(Not offered in 1986-87)

HIS350Y The Social History of the Family
An examination of marriage, child-rearing, inheritance, and male-female relations. Trends and changes will be examined in the context of broader economic and social developments in Europe and North America since 1700. [52L, 26T]
Offered in alternate years

HIS353Y International Relations, 1870-1945
The international relations of the European powers at their zenith and in decline. The interaction of the European powers is studied from the creation of the Second Reich to the origins of the First World War, the Versailles settlement, the inter-war "twenty year crisis" through the Second World War. The economic and social framework will be examined as well as political conflicts. [52S]
Prerequisite: P.I.
Offered in alternate years.

HIS355Y Totalitarianism
An examination of controversial interpretations of this period by some of Europe's leading authors with a view to understanding better what underlies the triumph of the 20th century totalitarian movements - Fascism, Nazism, and Stalinist Communism. [52S]
Prerequisite: P.I.

HIS356H Serfdom in Russia
(Formerly HIS356Y)
Why did serfdom arise and grow stronger in Russia at a time when similar systems of bondage were declining in Western countries? This course will examine the social and economic foundations of bondage in relation to other forces and trends: autocratic government, economic development, military organization, agricultural productivity, and peasant resistance. [13L, 13T]

HIS357Y The Renaissance
A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the development of the Renaissance in Italy and will deal with its manifestations in Northern Europe. [26L, 26T]

HIS359H History of Women in Canada
The role of women in the social and economic development of Canada since the founding of New France. Topics include: amerindian women, women in the fur trade, pioneer women, Victorian girlhood, marital sex and birth control, childbirth and motherhood, working women, feminism and reform, and the suffrage campaign. [26S]
Offered in alternate years

HIS360Y The Canadian Political Tradition
The development since the 1830's of conservative, liberal, and radical approaches to the ideas and methods of Canadian political life. [52L, 26T]
Recommended preparation: HIS262Y
Offered in alternate years

HIS365H Ontario
The study of the political, social and economic development of Ontario with special emphasis on the period from Confederation to the present. [26S]
Recommended preparation: HIS262Y
Offered in alternate years

HIS367Y Problems in Canadian-American Relations
(Formerly HIS367H)
This course will deal with political, economic and cultural relations between Canada and the United States since the American Revolution. Particular emphasis will be given to American economic and cultural influences upon Canada. [52L 26T]
Exclusion: HIS461Y(G)
Offered in alternate years

HIS369H Industrialization of Russia, 1860-1939
A comparison of industrialization efforts of the tsarist and Soviet governments: dilemmas of backwardness; international trade and competition; mobilization of labour and capital; technology; pressures on the consumer economy; labour organizations and unrest. [13L, 13T]
Offered in alternate years

HIS372Y The United States in the Twentieth Century
Major developments in the economic, social, political, and cultural life of the United States during the past century. [52L]
(Not offered in 1986-87)

HIS376Y The United States Between the Wars, 1918-1941
The study of economic, political, cultural and diplomatic developments associated with the emergence of "modern America." Major topics will include: the strengths and weaknesses of a consumer and corporate society; the transition from Republican to Democratic Party dominance; youth culture and protest culture; and the expansion of economic and political activity in the international arena. [26L, 26T]
Recommended preparation: HIS271Y/372Y
(Not offered in 1986-87)

HIS377Y Topics in Twentieth Century American Diplomacy
An examination of United States behaviour on the international scene since the 1890s. Economic, political and ideological factors involved in the growth of the American empire, World War I, World War II and the Cold War will be studied. [26L, 26T]

HIS379H Spain and Portugal from Napoleon to Franco, 1808-1936
The Iberian powers, pioneers in European expansion, had by 1800 been reduced to a marginal position in European politics. This course will examine the tremendous crisis provoked by the Napoleonic invasion and the independence of Latin America, the prolonged liberal/conservative struggles of the 19th century, the slow beginnings of industrialization, and the emergence of combative anarchist and socialist movements leading up to the pro-fascist *coup* of 1926 in Portugal and the Spanish Civil War (1936-39). [13L, 13T]
Recommended preparation: Gerald Brenan, *The Spanish Labyrinth;* A.H. de Oliveira Marques, *A History of Portugal* (2 vols.)
Offered in alternate years.

HIS391H Mexico: Independence to Revolution, 1810-1960
A seminar considering the growth of the Mexican nation from the struggle for independence to the "institutional revolution" of today. [13L, 13T]
Recommended Preparation: HIS335H

HIS392Y Canada and War
A topical examination of the Canadian experience of war and military preparedness including problems of political-military relations, conscription, aid to the civil power and militarism. [52L]
Recommended preparation: HIS262Y
(Not offered in 1986-87)

HIS397H From Fascism to Democracy: Spain and Portugal, 1936-1985
With the outbreak of the Spanish Civil War in 1936, the deep-rooted social conflicts of the Iberian peninsula merged with the general European struggle between fascism and democracy. The course will examine both political and military aspects of the civil war, the Franco and Salazar dictatorships, the role of the Church, the Communist Party and the liberal opposition in both countries, leading up to the Portuguese Revolution of 1974-75 and the liberalization of Spain following Franco's death in 1976. [13L, 13T]
Prerequisite: P.I.
Recommended preparation: Gerald Brenan, *The Spanish Labyrinth;* A.H. de Oliveira Marques, *A History of Portugal* (2 vols.)
Offered in alternate years.

HIS417Y Indians and Indian Policies in American History
(Formerly HIS330Y)
A study of the relationships between Indian tribes and the government and society of the United States. Major themes will include pre-contact soci-

ety and culture; the colonization of America and the origins of race consciousness; Indian removal; movements for cultural renewal; the frontier wars and Indian participation in America's major wars; the concentration, reservation and allotment policies; the Indian New Deal; and the Red Power movement. [52S]
Offered in alternate years.

HIS431Y Topics in Twentieth Century British Diplomacy
The exercise and decline of British power in foreign affairs, including war aims and the peace settlements of World War One, appeasement between the wars, World War Two, socialist alternatives in foreign affairs, the Suez crisis, Rhodesia, and the European Economic Community. [52S]
(Not offered in 1986-87)

HIS438Y The Making of the Modern Welfare State
The seminar will examine in a topical form the emergence of the modern welfare state. The Elizabethan Poor Laws, succeeding forms of social assistance, insurance and security, the post-war welfare state and its contemporary critics will be analyzed. [52S]

HIS445Y The Viking Age
A seminar on the history of Europe from the eighth to the eleventh centuries with emphasis upon the Scandinavians and their relations with western European civilization. Readings will be in both primary and secondary sources. [52S]

HIS466H Western Canada
The study of Western Canada from the 1850's to the present. Themes include economic development, immigration and settlement, rebellion, the unique political culture, and regionalism. [26L]
Recommended preparation: HIS262Y
Offered in alternate years

HIS478H Immigration and Ethnicity in American History
(Formerly HIS378Y)
The seminar will consider the extent to which the United States has been a "melting pot", including migrations to and settlement patterns in America, concepts of nationality and race, and the processes of assimilation and acculturation. [26S]

HIS479Y Cold War America
An examination of significant political, economic, social and intellectual developments, including Cold War foreign policies, economic and social reforms, McCarthyism, the Civil Rights movement, women's liberation, the "counter-culture," and the Indochina Wars. [52S]
Prerequisite: P.I.

HIS484Y Revolution and Reaction in Latin America
(Formerly HIS389Y)
A course focusing on politics and revolutionary movements in modern Latin America and related areas (e.g., southern Europe); emphasis will be placed on three or four particular countries, to be studied on a comparative basis. The course will also attempt to introduce possible approaches to history as a social science. [52S]

HIS485Y The Problem of Government in Classical Greece
A study of forms and ideas of socio-political organization in ancient Greece, concentrating on Athens, from Solon, the founder of her democracy, to Pericles, its greatest exponent. [52S]
Offered in alternate years.

HIS486Y From Republic to Principate
The breakdown of republican institutions and the evolution of the autocratic system of the Principate, traced from 133 B.C. to c 14 A.D., focussing particularly on the life and work of Julius Caesar and Caesar Augustus. [52S]
Exclusion: CLA354Y
Offered in alternate years

HIS487Y Canadian Social History
The transformation of Canada from an agrarian to an industrial society. Themes include migration and ethnicity, urbanization and industrialization, violence and social order, social stratification, education and family life, work relations. [52S]

HIS492Y Capital, Labour and Power in Latin America
This seminar will examine forms of labour organization in urban and rural Latin America in the 19th and 20th centuries, in the context of changing patterns of economic development. Slavery, debt peonage and free wage labour, the emergence of trade unions, the role of immigrant workers in such countries as Argentina and Brazil, State repression and/or patronage of trade union movements, and political ideologies of labour (anarchism, socialism, communism, populism) are among the topics to be covered. [52S]
Prerequisite: P.I.
Recommended preparation: An introductory course in Latin American history, politics or sociology
Offered in alternate years.

HIS497Y Independent Reading
(Formerly HIS401Y/403Y)
An independent study of an area of particular interest to a student or group of students carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year.
Prerequisite: P.I.

HIS498H Independent Reading
An independent study of an area of particular interest to a student or group of students, carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year.
Prerequisite: P.I.

HIS499H Independent Reading
An independent study of an area of particular interest to a student or group of students, carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year.
Prerequisite: P.I.

Faculty Advisor: Professor R.L. Beck
"Interdisciplinary Studies" is the name given to a special programme of courses which, because of their innovative character, might not readily be accommodated within the programmes of the regular academic departments of the College. Subject areas are changeable from year to year and students are advised to consult the Associate Dean of Humanities for current details.

INE112Y Introduction to Film Studies
An introduction to film history, major aesthetic approaches and the rudiments of film language. A screening fee will be charged. [26L, 78S, 26T]
Exclusion: INI112Y, NEW112Y, VIC112Y

INE203H Effective Writing
This half-credit course is for students who already write passable prose but who want to write better. The class will analyse the principles and practice of effective writing and explore various kinds of non-fictional prose, with special emphasis on the expository essay. There will be frequent writing exercises. A screening test will be given at the beginning of the course. [26L, 13P]
Exclusion: INE205H, ENG100Y

INE205H Writing for Business
Aimed at students who will be entering the business world, and who already write passably, this half-course will explore the principles and practice of effective writing, with special emphasis on business correspondence and reports. There will be frequent writing exercises. A screening test will be given at the beginning of the course. [26L, 13P]
Exclusion: INE203H, ENG100Y

INE350H Seminar in Material Culture
This is a research seminar open to students with 9 or more full course equivalents completed, 3 or more in Material Culture. Students will prepare a substantial research paper for presentation in both oral and written form. Cooperating faculty members will be invited to lead seminar discussions, with special attention given to research techniques. [26S]

INE390Y Independent Studies
A reading and research project, chosen by the student and supervised by a faculty member, designed to integrate work in an Approved Area of Study. The project will culminate in the writing of a substantial essay. The supervisor will be chosen in consultation with the Programme Co-ordinator. Open only to students enrolled in an Approved Area of Study. [TBA]
Prerequisite: Ten or more full-course equivalents and permission of the Programme Co-ordinator

INE401Y Senior Essay
A major independent research project chosen by the student and supervised by a faculty member. All projects must be approved by the Committee on Canadian Studies by the end of classes in the previous year. Application forms are available from the Programme Co-ordinator. [TBA]
Prerequisite: Open only to students with at least fifteen full-course equivalents and the permission of the Programme Co-ordinator

INE402Y Selected Topics in Canadian Studies
A seminar course considering varied perspectives on Canadian themes or periods as presented by several disciplines. The topics to be studied will be decided in accordance with the special interests of the students involved. [TBA]
Prerequisite: Permission of the Programme Co-ordinator

Faculty Advisor: Professor G. Pugliese
The Italian programme at Erindale is designed to provide a comprehensive study of the diversity which is Italy, a country whose culture continues to be a significant force in the shaping of Western civilization. The greatest attention is devoted to literature, as a principal manifestation of the national spirit, with courses organized around major figures, movements or genres, but other facets of Italian life and civilization are also examined.
Language is studied scientifically from all points of view - practical, stylistic, philological and historical - at all levels of instruction.
Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. Graduates in Italian are in demand and will continue to be. There are career opportunities in teaching, foreign affairs, government, social services, trade and law. Furthermore, the presence of large Italian communities throughout Canada provides a social, intellectual and practical incentive for the study of Italian.
Students are free to design for themselves the programme of study best suited to their interests and needs, and they can choose from available courses at Erindale and at St. George. There are conditions, however, which must be satisfied (a) for specialization (in Italian alone) (b) for a major (in Italian and another discipline) and (c) for a minor.
In case of uncertainty with regard to the programme of study, course content, graduate studies requirements, or any related matter, students are strongly advised to consult the discipline representative for Italian at Erindale.

Please see Section 5 for details of Programme Requirement.

ITA100Y Italian for Beginners
An introduction to the Italian language for students of non-Italian linguistic background. Essentials of grammar, oral practice, language laboratory, translation. [104L, 26P]
Exclusion: Previous schooling in Italian

ITA115Y Beginning Italian For Dialect Speakers
An introduction to the main elements of Italian grammar for students who speak, understand or have studied some Italian but do not have Grade 12 or 13. Language laboratory, linguistic study of modern Italian prose, composition, conversation. [104L, 26P]
Exclusion: Grade 12/13 Italian

ITA200Y Continuing Italian
This course consists of a thorough review of grammatical structures and is designed to improve the students' self-expressiveness in Italian. Selec-

tions from contemporary authors and passages dealing with present-day issues are used as a basis for discussion in Italian. For students whose background in Italian is solely academic. [78L, 26P]
Prerequisite: Grade 13 Italian/ITA100Y/P.I.

ITA210Y Continuing Italian for Dialect or Native Speakers
A comprehensive review of Italian grammar with readings from a variety of texts. Composition and conversation are integral parts of this course. [78L, 26P]
Prerequisite: Grade 13 Italian/ITA115Y/P.I.

ITA221Y Forms of Modern Italian Literature
An introduction to twentieth-century Italian literature through a study of representative "novelle", shorter works of fiction, plays and poetry. Selections will include writings by Moravia, Calvino and Pandolfi and the major poems of Saba, Ungaretti, Montale, Quasimodo and others. [52L, 26T]
Prerequisite: Grade 13 Italian/ITA100Y/115Y
Recommended preparation: Good knowledge of Italian
Offered in alternate years.

ITA230Y Italian Literature Through the Ages
A survey of the shorter forms of Italian literature from the Middle Ages to the beginning of the twentieth century. Emphasis will be given to poems and "novelle" but theoretical piecessand short plays of recognized literary significance will also be examined. [52L, 26T]
Prerequisite: Grade 13 Italian/ITA100Y/115Y
Offered in alternate years.

ITA235Y Topics in Italian Civilization
Various aspects of modern Italian civilization such as fascism, the Resistance, mafia, industrialization, language and mass-media, immigration, the generation of '68, terrorism, women's liberation, religion and political ideologies will be discussed through a selection of short stories, novels, sociological and historical documents, articles from newspapers and magazines. [52L, 26S]
Prerequisite: Grade 13 Italian/ITA100Y/115Y
Offered in alternate years.

ITA240Y Italian Cinema (In English)
A course designed to explore the characteristics of the modern Italian film. The stress will be on works by such established masters as Rossellini, Visconti, Fellini and Antonioni, but films by younger directors (e.g. Wertmüller, Bertolucci) will also be examined. Analysis and discussion to be entirely in English. [52L]

ITA270H Reality, Myth, Death: The Modern Italian Novel (In English)
All classes will be conducted in English and all novels will be in English translation. Works to be read include: Moravia's *The Conformist*, Bassani's *Garden of the Finzi-Contini*, Silone's *Bread and Wine*. The background will be approached in informal group discussions. [26L]
Exclusion: ITA390Y
Offered in alternate years.

ITA272H Pirandello and the Modern Italian Theatre (In English)
The problem of conflicting realities and of the definition of the personality in the plays of Pirandello. Works by Betti and De Filippo (including *Marriage Italian Style)* will also be read. All texts and discussions will be in English. [26L]
Offered in alternate years.

ITA275Y The Culture of the Italian Renaissance (In English)
A survey of the art forms, social ideals and intellectual ideology of the Italian people in the fifteenth and sixteenth centuries, with some attention also given to the political and economic conditions of the period. Artists, writers and philosophers, whose major works will be considered, include: Michelangelo, Leonardo da Vinci, Castiglione, Machiavelli, Cellini, Pico della Mirandola. Slides, records and other illustrative materials will be used. [52L, 26S]
Offered in alternate years.

ITA321Y Dante's *Divina Commedia*
An introduction to the work and thought of Dante, with special emphasis on the *Inferno* and *Purgatorio*. [52L, 26T]
Prerequisite: ITA200Y/210Y

ITA324Y Renaissance Prose and Poetry
An examination of treatises by Machiavelli, Castiglione, and Guicciardini, and poems by Lorenzo de' Medici, Poliziano, and Michelangelo, in relation to trends in Renaissance thought and the new concept of man and the world. [52L, 26T]
Exclusion: ITA323H
Prerequisite: ITA200Y/210Y/340Y
Offered in alternate years.

ITA325H Leopardi's *Canti*
A close reading of the poetry of Italy's finest lyric poet in the light of his prose writings and within the context of Classical and Romantic traditions. [26L, 13T]
Prerequisite: ITA200Y/210Y
Offered in alternate years.

ITA326H Petrarca
A study of Petrarca's poetry with some consideration of his influence on Italian and other literatures. [26L, 13T]
Prerequisite: ITA200Y/210Y
Offered in alternate years.

ITA330Y The Cinema of Antonioni and Fellini
Both directors will be studied in depth. Particular attention will be devoted to showing how they resolved the technical transition from black and white to colour and how their cinematic mythologies evolved. Since they bridge the gap between neo-realism and contemporary ideologies their influence on the current generation of Italian directors such as Bertolucci will also be demonstrated. Readings will include shooting scripts and technical and theoretical writings on the cinema. [52S, 52P]
Offered in alternate years.

ITA340Y Creative Italian
Advanced language course designed to give the student oral and written proficiency. Selected readings on questions of topical interest, discussions, compositions, some translation. [52L, 26P]
Prerequisite: ITA200Y/210Y

ITA341Y Intensive Language Practice
The aim is to provide students with the necessary oral and writing skills required in the literature courses and for effective communication through the intensive examination and performance of expressive strategies. [26L, 52P]
Prerequisite: ITA200Y/210Y/P.I.
Recommended preparation: Knowledge of the fundamentals of the Italian Language

ITA371Y Advanced Translation
Techniques and theories of translation, using modern texts containing a variety of linguistic codes. Some simultaneous translation. [26L, 52P]
Prerequisite: ITA340Y
Offered in alternate years.

ITA390Y 20th-Century Novel and Drama
Masterpieces of modern Italian fiction and drama analyzed against the background of modern-day Italy. One work will be examined in detail from each of the following novelists and playwrights: Svevo, Vittorini, Buzzati, Calvino, Pirandello, Betti and De Filippo. [52L, 26S]
Exclusion: ITA270H, 272H
Prerequisite: ITA200Y/210Y
Offered in alternate years.

ITA395H Major Novels of the 19th-century
A study of the genesis and evolution of the Italian novel, with a close reading of Alessandro Manzoni's *I promessi sposi* and Giovanni Verga's *I Malavoglia*. [26L, 13T]
Prerequisite: ITA200Y/210Y
Offered in alternate years.

ITA427H Boccaccio
A critical portrait of one of "the three crowns of Florence" through an examination of representative selections from his minor works and a detailed analysis of his masterpiece, the *Decameron*. [26L, 13T]
Prerequisite: ITA200Y/210Y
Offered in alternate years.

ITA436Y The 18th-century in Italy
An investigation of the intellectual trends and literary forms in Italy from the pre-enlightenment to Romanticism. Readings from the works of Vico, Muratori, Gravina, Metastasio, Rolli, Parini, Verri, Beccaria, Goldoni, Alfieri and others. [52L, 26T]
Prerequisite: ITA200Y/210Y
Offered in alternate years.

ITA450Y Advanced Composition
Analysis of expressive strategies and discussion of problems relating to syntax, morphology and vocabulary as they arise from individual compositions and essays and from selected reading passages. [26L, 52P]
Prerequisite: ITA210Y/340Y
Offered in alternate years.

JBG230Y(I) Man and Environment
Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Problems of current environmental concern - land use, material and energy resources, pollution are considered and illustrated by case studies from different parts of the world. Given by the Departments of Biology and Geography. [52L, 26T]
Exclusion: JBG130Y

JBG491Y Environmental Research Project
Independent research on an environmental topic carried out under the supervision of a staff member whose written consent is required for registration. This project course is open to third and fourth year students. A written report of the research will be required and a seminar presentation may be required.
Exclusion: All other courses in independent research

JBP359Y Sociobiology: Biological Bases of Social Behaviour
(Taught Jointly With Psychology)
Concepts from ethology, ecology, and population biology will be introduced and applied to theoretical understanding of the evolution and biological function of social behaviour. Topics to be discussed will include altruism, aggression, social spacing, dominance, sex, parental investment and care, social symbioses, and the evolution of life histories. Emphasis will be placed on the complex social systems of insects and mammals. Laboratory sessions will involve field observations, laboratory demonstrations, and the preparation of individual projects. Given by the Departments of Biology and Psychology. [56L, 78P]
Prerequisite: BIO100Y/201Y/203H, PSY100Y, P.I.

JGP334H Physics of the Earth
A course dealing with the quantitative physical description of the earth, its dynamics, internal structure and tectonic history. Topics covered in detail are: radioactivity and radiometric dating of rocks; the rotation and dynamics of the earth; the earth's gravitational and magnetic fields; ancient magnetic fields; and seismological evidence for the internal structure and composition of the earth. Extensive use is made of potential field methods and solution of partial differential equations. Given by the Departments of Earth and Planetary Science and Physics. [26L, 13T]
Prerequisite: PHY240Y
Recommended preparation: EPS100H/120H/121H/236H/335H

JGS340Y Concepts, Methods and Values in Urban Studies
Designed for students concentrating in urban studies irrespective of major disciplinary area. A survey of a variety of types of urban study from the social science perspective. Linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. Given by the Departments of Geography and Sociology. [52L, 26T]
Prerequisite: SOC101Y/216Y, SOC205Y/GGR245Y, SOC200Y/201Y/ (GGR202H, 207H, 280H)

LATIN

(See Classics)

LINGUISTICS

LAT100Y Introductory Latin
A course designed to acquaint the student with the essentials of the Latin language and to introduce him to Roman literature. [104S]

LAT210H(I) The Poetry of Catullus
Selections from the work of Catullus, including both the love poetry and the poetry of social comment with particular emphasis on the literary value of Catullus' work; includes study of the Latin language. [39S]
Exclusion: LAT215H(G)
Prerequisite: Grade 13 Latin/LAT100Y/130Y(G)

LAT211H(I) The Poetry of Horace
Selections from the *Odes* of Horace, with particular emphasis on the literary quality of Horace's lyric poetry; includes study of the Latin language. [39S]
Prerequisite: Grade 13 Latin/LAT100Y/130Y(G)

LAT212H The Life and Times of Julius Caesar
Suetonius' biography, *The Divine Julius*, studied for the light it throws on the character and career of Julius Caesar. Some study of the Latin language. [39S]
Prerequisite: Grade 13 Latin/LAT100Y/130Y

LAT228Y(I) Introduction to Roman Law
The purpose of this course is to improve the Latin of students with some interest in law. The reading will be selections from the second century A.D. textbook of Roman law, the *Institutes* of Gaius, which divides its subject into the law of persons, the law of things and the law of actions. Schultz' *Classical Roman Law* will be used for reference. The course will include some lectures on the history of Roman Law. [52T]
Prerequisite: Grade 13 Latin/LAT100Y/130Y(G)

The aim of Linguistics is to develop an understanding of how all languages work, and of how languages use disparate means for the same effects. The theme is the unity and the variety of human language. Such a theme subsumes many variations, including grammatical theory and its application to data, language divergence and convergence in space and time, the sociocultural stratification of linguistic systems, normal and pathological language behaviour and language learning.
Undergraduate Linguistics is a valuable component of a liberal education, especially in a multilingual country such as Canada. It is also valuable as pre-professional training for people interested in teaching English, French or other languages, in areas of rehabilitative medicine such as audiology or speech therapy, in special education, in work with native peoples or with immigrant groups in our society, in religious and missionary work, or in academic disciplines such as psychology, philosophy, literature and language studies, where the contribution of linguistics is increasingly recognized as important.
Students interested in linguistics should consider the following: ENG200Y, FRE272Y, GER326H, MAT104H, PHL245H, PSY315H, PSY374H, SOC152Y, SOC309Y, SPA425H.

LIN100Y Introduction to General Linguistics
Aims at describing certain universals in the phonological, morphological, syntactic and semantic structures of language. The principal purpose is not indoctrination into any particular school of linguistic thought but rather to acquaint students with the various possibilities of analyzing the components of language. Since the primary goal is to serve as a valuable tool for students of English and foreign literatures, languages, psychology, anthropology, sociology, communications, etc., the course uses a multi-disciplinary approach. [52L, 26T]

(See also Applied Mathematics)
Faculty Advisor: Professor V. Jurdjevic
Mathematics, from its historical origins, has been based on notions abstracted from every-day life: number, magnitude, spatial position, etc. but concerned not so much with the concepts themselves as with what may be arrived at by consequence of simple observations about their essential meaning. Significantly, these observations themselves (the axioms) were left undiscussed within the subject itself. Moreover, since the beginning of the 17th century, the subject's conceptual scheme has been thickly cross-woven with a formal manipulative one (as exemplified in elementary algebra) whenceforth the mathematician laid aside his role of observer of the abstract and became a being acting within it. Throughout its further development, many other concepts, such as real and complex numbers, sets, groups - to name the simplest - were added. However, the general picture remained essentially the same, that is, of a working, grounded in logic, of what is disinterestedly accepted. There are many ways in which mathematics is required. To the humanist, mathematics is part of our western culture. To the scientist, it serves as an indispensable conceptual ground. The pure mathematician is interested in abstract mathematical activity in its own right and is led to the unfolding of the structure of mathematics almost as an art-form. The applied mathematician, by contrast, is more interested in the clarifying use he can make of this structure as he comes face to face with the world. He was traditionally involved solely with the applications of mathematics to certain problems of physics. Facets of present-day mathematics, however, give rise to significant contributions to science more generally understood and, as in Economics and Linguistics, to where mathematics appears, in some sense, as a foundation for the edifice of precise thinking.
The Department of Mathematics, when providing its courses, is mindful of this multifariousness. Traditionally, a training in mathematics has been much esteemed for careers in law and business. Nowadays, it serves equally for work in a variety of fields within the natural and social sciences. Thus, the professional mathematician will be found, schools and universities apart, in government and technologically oriented business organizations for which, for the most part, he will have required some post-graduate work.
The Specialist Programme in Mathematics is recommended to students who want a deeper knowledge of the subject and particularly so to those intending to teach the subject in secondary schools. Students planning subsequent graduate work should consult the Department and take some advanced undergraduate courses on the St. George campus. Mathematics may also be combined with other fields of study as in the various joint programmes.
The successionary nature of mathematics demands for most topics, specific knowledge and students should pay heed to prerequisites required for courses of possible subsequent interest to them. However, a student who wishes to take a course, but lacks an official requirement, may be permitted to do so if he shows himself adequately prepared.
First year students with sufficient background who want, either for itself or for other studies, a course of some substance are advised to take MAT138Y rather than 132Y.

See Section 5 for details of programme requirements.

MAT104H Symbolic Logic
Propositional calculus. Predicate calculus. (The aims of the course are to develop a clear understanding of logical concepts and to acquaint students with proof techniques)
(Of general interest). [26L, 13T]
Exclusion: PHL245H

MAT105Y Introduction to Algebra and Calculus
Vectors, linear equations, matrices. Trigonometric and logarithmic functions. Limits, derivatives, extreme values, integrals. Applications. (Essentially a substitute for Grade 13). [52L, 26T]
Exclusion: Grade 13 Mathematics C

MAT108H Introduction to Algebra and Number Theory
Introduction to abstract mathematics via the elementary topics in number theory and algebra.
(Of interest to serious students). [26L, 13T]
Prerequisite Grade 13 algebra

MAT132Y Calculus
Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of calculus. Complex numbers. Sequences and series. Elementary linear algebra. Partial derivatives. (Primarily intended for non-specialists). [52L, 26T]
Exclusion: MAT130Y/133Y/134Y/135Y/138Y/139Y/149Y/150Y
Prerequisite: Grade 13 Mathematics R & F, C/MAT105Y

MAT138Y Calculus
Review of basic concepts of calculus: derivatives, integrals, the fundamental theorem, improper integrals and limits. A rigorous treatment of sequences and series: convergence tests, power series and introduction to uniform convergence.

(Similar to MAT132Y but of more substance). [52L, 52T]
Exclusion: MAT130Y/132Y/133Y/134Y/135Y/139Y/149Y/150Y
Prerequisite: Grade 13 Mathematics A, R & F, C/MAT105Y

MAT214H Differential Equations
Ordinary differential equations. Emphasis throughout on applications. (Suitable for non-specialists). [26L, 13T]
Exclusion: APM251Y/MAT230Y(G)/234Y/244H(G)
Prerequisite: MAT132Y/138Y
(MAT214H and 233H replace MAT235Y)

MAT228H Linear Algebra
Matrices, linear transformations systems of linear equations, determinants, canonical forms, applications. (Of general interest). [26L, 13T]
Exclusion: MAT224H/225Y
Prerequisite: Grade 13 Algebra or C/MAT105Y

MAT233H Calculus of Several Variables
Differential and integral calculus of several variables: partial differentiation, chain rule, Taylor series and classification of critical points. Multiple integrals, line and surface integrals, vector calculus, Green's theorem. (Suitable for non-specialists). [26L, 13T]
Exclusion: MAT230Y/234Y/235Y/238Y/250Y
Prerequisite: MAT132Y/138Y
(MAT233H and MAT214H replace MAT235Y)

MAT234Y Advanced Calculus For Social Scientists
Sequences and series. Differential calculus for functions of several variables. Taylor series in one and many variables. An introduction to integral calculus for functions of two variables. An introduction to optimization; extremal problems. Lagrange multipliers; linear programming. Difference and differential equations emphasizing linear systems. Applications to economics and Markov chains. [52L, 26T]
Exclusion: MAT214H/230Y/233H/235Y/238Y/250Y
Prerequisite: MAT132Y/138Y

MAT238Y Advanced Calculus
Real numbers. Elements of topology in R^2 and R^3. Differential calculus of functions of several variables: the implicit function theorem, extremal problems, Lagrange multipliers. Transformations. Parametrized integrals. Integral calculus: line, surface and volume integrals. Theorems of Gauss and Stokes. (For those with more than a casual interest in mathematics) [52L, 26T]
Exclusion: MAT230Y/233H/234Y/235Y/250Y
Prerequisite: MAT138Y

See also APM251Y, (page 69)

MAT308H Philosophy of Mathematics
The origins of arithmetic, geometry and mechanics. (This course is, at basis, concerned with ontology but is illustrated for the most part through mathematical exercises. Required work will be through problems rather than essays). [26L, 13T]
Prerequesite: Any second year MAT course or equivalent.
Offered in alternate years.

MAT309H Introduction to Mathematical Logic
Formal languages: content as opposed to form, expressive power and inherent limitations as revealed by Gödel's theorems. [26L, 13T]
Exclusion: CSC438H
Prerequisite: MAT104H/PHL245H, MAT132Y/138Y, 228H

MAT310H Set Theory: An Introduction
The mathematical theory of sets. The classical paradoxes. The concept of infinity. [26L, 13T]
Prerequisite: MAT228H/238Y
Offered in alternate years.

MAT328H Introduction to Differential Geometry
Curves in R^2 and R^3: arc length, curvature, torsion, Hopf's theorem, Frenet's equations, the main theorem. Surfaces in R^3: first and second fundamental forms, Gauss curvature and mean curvature, the Bonnet immersion theorem. [26L, 13T]
Prerequisite: MAT228H, 233H/234Y/235Y/238Y

MAT334H Complex Variables
Theory of functions in one complex variable: analytic and meromorphic functions; Cauchy's theorem, residue calculus, conformal mappings. Introduction to analytic continuation, harmonic functions. [26L, 13T]
Exclusion: MAT319H/330Y
Prerequisite: MAT238Y/250Y

MAT338H Introduction to Real Analysis
Metric spaces, completeness, uniform convergence. Topics in measure theory: Lebesgue integral, Riemann-Stieltjes integral. L^p spaces, Fourier series. [26L, 13T]
Exclusion: MAT350Y
Prerequisites: MAT228H, 238Y

MAT344H Introduction to Combinatorial Mathematics
Basic counting principles. Inversion formulas, principle of inclusion-exclusion. Generating functions. Permutations with restrictions. Graph theory and applications. [26L, 13T]
Prerequisite: MAT228H
Offered in alternate years.

MAT349H Abstract Algebra
Introduction to groups, rings, and fields. [26L, 13T]
Exclusion: MAT300Y
Prerequisite: MAT108H/228H

MAT359H Introduction to Topology
Topics selected from point-set, geometric, and algebraic topology. [26L, 13T]
Prerequisite: MAT238Y/250Y
Offered in alternate years.

MAT399H Independent Work in Mathematics
A prospective student should select his topic and advisor before the end of second year and discuss the topic with his advisor.
Prerequisite: Acceptance by an advisor

See also APM 351Y, (page 67)

Faculty Advisor: Professor E. Kremer

The Greek words from which "philosophy" is formed mean "love ofwisdom" and all great philosophers have been moved by an intense devotion to the search for wisdom. What distinguishes philosophy from the physicaland social sciences is its concern not only with the truths which are discovered by means of specialized methods of investigation, but with the implications such discoveries have for human beings in their relations with one another and the world. Moreover, philosophy has an abiding interest in those basic assumptions about the nature of the physical and socialworld, and about the nature of inquiry itself, which underlie the methodology by means of which scientists seek to explain their observations.

Philosophy examines the grounds for those beliefs which make up people's fundamental views of the world. Here are a few fundamental beliefs, some held by some people, some by others: "Telling lies is always wrong", "Some things can never be known", "The material world is all that exists", "What is right or wrong depends entirely on one's society or culture", "People are inherently selfish", "Life must have a transcendent purpose". There are many other similar beliefs which deeply affect the way we think and live. Philosophers discuss them as thoroughly and systematically as possible.

The Philosophy Department offers courses which study basic works of famous philosophers of the past taken in their historical settings, and it offers courses in which students are trained to think critically about philosophical issues themselves. A glance through the courses offered in Philosophy will inform any prospective student of the names of philosophers studied, and the special areas investigated in the Philosophy programmes at the University of Toronto. A dictionary or encyclopedia will supply the standard definition of logic, ethics, epistemology, and metaphysics. But one who wants to know what philosophy is must do it. A student can learn a great deal from a study of what has been written by the great philosophers through history. But such study is only an important preliminary. To read without bold and critical thinking is next to useless.

Some students may not wish to undertake more than a few courses in philosophy to supplement their work in other fields. They may make a free choice among the courses offered by the Department. The only restrictions are that they take no more than one 100 level course and that 300 and 400 level courses presuppose previous work in philosophy. All courses at the 200 level are open to any student. Many students will find that their interests embrace philosophy and some other subject. The Philosophy Department has joint

programmes with various departments. Other students will find that their primary interest is in philosophy. The Specialist Programme is designed for such students. Its completion may be a step toward graduate study in philosophy, or it can lead in other directions; law, journalism, education, theology, and politics are some possibilities. It cannot be stressed too strongly, however, that one of the chief rewards of studying philosophy must always be intrinsic to the subject itself.

ERINDALE PHILOSOPHY HANDBOOK. Because of space and time restrictions, the Calendar gives only brief and abstract descriptions of courses. The Philosophy Handbook, which is produced in the Spring, gives detailed information on course outlines, requirements, readings, instructors, time-tabling, etc. It is available at the Philosophy Department, Room 227 North Building, phone 828-5296, or will be mailed on request. It is an essential supplement to the Calendar and students are urged to consult it.
The Philosophy Discipline Representative and staff will be glad to offer advice and assistance. To arrange for counselling by a faculty member, phone 828-5349.

Please see Section 5 for details of Programme Requirement.

PHL100Y Logic, Knowledge, and Reality
An introduction to philosophy, emphasizing logic, theory of knowledge, and metaphysics. Elementary techniques of modern symbolic logic and problems in inductive logic and probability. What can be known with certainty? What is reality? Are there limits to knowledge? [78L]
Exclusion: PHL101Y, 102Y, PHI103Y(G), 104Y(G), 105Y(G)

PHL101Y Mind, Value and Religion
An introduction to philosophy, stressing conceptions of human nature and of the good life. The religious dimension of life; arguments for the existence of God; free will; mind and body in relation to the scientific image of human nature; the rational foundation for morality; the relation of individual to state; authority, liberty, and justice. [78L]
Exclusion: PHL100Y, 102Y, PHI103Y(G), 104Y(G), 105Y(G)

PHL200Y Birth of Western Philosophy
Classical doctrines of Plato and Aristotle concerning the universe and God, human knowledge and logic, soul and body, moral values and the good life. Plato's predecessors, the pre-Socratics and Socrates, and post-Aristotelian developments in Stoicism, Epicureanism and neo-Platonism. [78L]
Exclusion: CLA200Y

PHL210Y 17th and 18th Century Philosophy
Classic texts by European philosophers (e.g., Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant). Their attitudes toward science and religion, and their theories about the nature of the world and of human knowledge, culminating in the "Copernican Revolution" of Kant. [78L]
Recommended preparation: PHL100Y

PHL220H Introduction to Existentialism
A survey of twentieth-century existentialism and its untraditional answers to many of philosophy's traditional questions. Topics include: human perception and knowledge of reality; freedom and the meaning of life; sexuality and the body. Authors include, Heidegger, Buber, Marcel, Camus, Sartre, de Beauvoir, Merleau-Ponty. [39L]

PHL235H Philosophy of Religion
The nature of religion; religious faith; arguments for God's existence; religious experience; religion and human autonomy; the problem of evil; religious and atheistic existentialism.
[39L]

PHL240H Persons, Minds, and Bodies
Consciousness and its relation to the body; personal identity and survival; knowledge of other minds; psychological events and behaviour. [39L]

PHL241H Philosophy of the Emotions
Typical problems studied: Can emotions be assessed as rational or irrational? Do we have immediate knowledge of our emotions? Are emotions right or wrong in themselves? Are we responsible for them? How do our socialized emotional repertoires condition our conception of ourselves, including our gender identity? Do they encourage harmful stereotypes? [39L]

PHL242H Minds and Machines
(Formerly PHL342H)
Can machines think and feel? Are human beings simply very complicated organic machines? These questions are discussed in the light of recent work on the simulation of intelligence and purposive behaviour. [39L]

PHL243H Philosophy of Human Sexuality
Philosophical issues about sex and sexual identity in the light of biological, psychological, and ethical theories of sex and gender. The concept of gender; male and female sex roles; theories of psycho-sexual development; sexual morality; "natural", "normal" and "perverse" sex; sexual liberation; love and sexuality. [39L]

PHL244H Human Nature
Theories of human nature, e.g., psychoanalysis, behaviourism, sociobiology. Current issues, e.g., egoism and altruism, instincts, I.Q., rationality, sanity and mental illness. [39L]

PHL245H Modern Symbolic Logic
The application of symbolic techniques to the assessment of arguments. Propositional calculus and quantification theory. Logical concepts; techniques of natural deduction. [39L]
Exclusion: MAT104H, 204H

PHL246H Probability and Inductive Logic
The elements of axiomatic probability theory, and its main interpretations (frequency, logical, subjective). Reasoning with probabilities in decision making and science. [39L]
Recommended preparation: PHL100Y/245H

PHL255H Science and Pseudo-Science
An examination of (e.g.) ESP, astrology, race and I.Q., scientific creationism, psychoanalysis, sociobiology; the principles of good science as opposed to pseudo-science, especially in "borderline" cases; misuses of science. [39L]

PHL271H Ethics and the Law
Moral issues in the law, such as civil liberties and police powers, censorship, the death penalty, paternalism, and the constitutional protection of human rights. Case studies from Canadian law. [39L]

PHL272H Philosophy of Education
The nature, aims, and content of education; learning theory; education and indoctrination; the teaching of morals and the morality of teaching; the role and justification of educational institutions, their relation to society and to individual goals; authority and freedom in the school. [39L]

PHL274H Contemporary Social Issues
Against the background of some major social and political theories, this course will explore such practical problems as nationalism, racism, sexism, inequality, civil disobedience, revolution, and political radicalism. [39L]

PHL277Y Moral, Social, and Political Philosophy
A survey of some major moral and political theories, e.g., utilitarianism, rights theory. A study of central issues in moral philosophy, e.g., moral relativism, the nature and limits of moral responsibility, self-interest and morality, and central issues in social and political philosophy, e.g., anarchy and the legitimacy of the state, the evaluation of forms of government, civil disobedience and revolution. [78L]
Exclusion: PHL265H, 275H, 276Y
Recommended Preparation: PHL100Y/101Y

PHL281H Morality, Medicine, and the Law
Moral implications of recent developments in medicine and the life sciences; related legal and social issues. Euthanasia, health care priorities, abortion, fertility control, against the background of some major ethical theories. [39L]

PHL285H Aesthetics
Some central areas in philosophy of art such as the nature of a work of art; definitions and theories of arts, aesthetic experience, perception and sensibility; objectivity in criticism; standards of taste or evaluation. [39L]

PHL288H Literature and Philosophy
The literary expression of philosophical ideas and the interplay between literature and philosophy. [39L]

NOTE: All 300 series courses, with the exception of PHL 344H-349H, have a prerequisite of three half-courses (or the equivalent) in Philosophy. It is strongly recommended that students prepare for 300 series courses by taking two of PHL 100Y/101Y/200Y/210Y/245H/277Y. Some 300 series courses have specific prerequisites or recommended preparation, as described below. Students who do not meet the prerequisite for a particular course but believe that they have adequate preparation should consult the instructor concerning entry to the course.

PHL303H Topics in Plato
Central philosophical problems in Plato. [26S]
Exclusion: PHL301Y
Recommended preparation: PHL200Y

PHL304H Topics in Aristotle
Central philosophical problems in Aristotle. [26S]
Exclusion: PHL302Y
Recommended preparation: PHL200Y

PHL307H Topics in Mediaeval Philosophy
A study of some of the principal figures and intellectual problems in the period from the first century to the sixteenth. Figures such as Philo, Augustine, Abelard, Avicenna, Maimonides, Aquinas, Duns Scotus, Ockham and Suarez will be studied on topics in metaphysics, epistemology, ethics and philosophy of nature. [26S]
Recommended preparation: PHL200Y

PHL312H Kant
A systematic study of *The Critique of Pure Reason*. [26S]
Recommended preparation: PHL210Y/313H

PHL313H Issues in Modern Philosophy
The critical study of an important text. [26S]
Prerequisite: PHL210Y

PHL315H 19th-Century German Philosophy
Post-Kantian idealism in Fichte, Schelling, and Hegel, and the reactions against it of Kierkegaard, Marx, and Nietzche. [26S]
Recommended preparation: PHL210Y/312H/313H

PHL320H Husserl and Phenomenology
The logical, epistemological and metaphysical dimensions of Husserl's work. Phenomenology as a new method for the study of consciousness and as a foundation for philosophy and science. Other applications of phenomenology. [26S]
Recommended preparation: PHL210Y/312H/313H

PHL321H Existentialism
An inquiry into a single existential philosopher, either Kierkegaard or Heidegger, or the study of a single theme, such as the understanding of philosophy and its method, the nature of truth, "being-in-the-world". [26S]
Recommended preparation: PHL210Y/220H/312H/313H/320H

PHL325H The Analytic Tradition
(Formerly PHL225H)
Analytic philosophy up to 1945. Authors include Frege, Russell, Moore, Wittgenstein, and logical positivists such as Ayer. [26S]
Recommended Preparation: PHL245H
Offered in alternate years.

PHL327H Contemporary Analytic Philosophy
Trends since 1945 in English and North American analytic philosophy. [26S]
Recommended Preparation: PHL245H
Offered in alternate years.

PHL332H Issues in Metaphysics
Typical problems: ontological categories; ontological commitment; the objectivity of space and time; causality and determinism; mind and body. [26S]

PHL333H Issues in Epistemology
Typical problems: knowledge and belief, perception, the analytic-synthetic distinction, theories of truth, necessity and the *a priori*. [26S]

PHL340H Issues in Philosophy of Mind
Typical problems: the brain-mind identity theory; intentionality and the mental; personal identity; the nature of human action. [26S]
Offered in alternate years.

PHL341H Freedom, Responsibility, and Human Action
Human action and the nature of freedom and responsibility in the light of contemporary knowledge concerning the causation of behaviour. [26S]
Offered in alternate years.

PHL344H Metalogic
Soundness and completeness of propositional and quantificational logic, undecidability of quantificational logic, and other metalogical topics. [39L]
Exclusion: MAT304H
Prerequisite: PHL245H/MAT104H/204H and one full course equivalent in PHL/MAT/CSC
Recommended preparation: PHL345H

PHL345H Intermediate Logic
A sequel to PHL245H, developing skills in quantificational logic and treating of definite descriptions. The system developed will be used to study a selection of the following topics: philosophical uses of logic, formal systems, set theory, non-classical logics, and metalogic. [39L]
Prerequisite: PHL245H/MAT104H/204H and one full course equivalent in PHL/MAT/CSC

PHL346H Philosophy of Logic and Mathematics
Platonism versus nominalism, the relation between logic and mathematics, implications of Gödel's and Church's theorems, counterfactuals, necessity and possibility, extensional and intensional contexts, intuitionism. [26S]
Exclusion: MAT308H
Prerequisite: PHL245H/MAT104H/204H and one full course equivalent in PHL/MAT/CSC
Offered in alternate years.

PHL347H Many-Valued and Modal Logics
Many-valued and modal propositional logics and their interrelations; logical matrices and possible-world semantics; problems of interpretation and philosophical applications. [39L]
Exclusion: MAT312H
Prerequisite: PHL245H/MAT104H/204H and one full course equivalent in PHL/MAT/CSC
Recommended preparation: PHL 345H

PHL349H Set Theory
Axiomatic set theory developed in a practical way, as a logical tool for philosophers, with some attention to philosophical problems surrounding it. [39L]
Prerequisite: PHL245H and a full course in PHL/CSC/MAT
Offered in alternate years.

PHL350H Philosophy and Theories of Language
The claims of logical positivism, ordinary language philosophy, structuralism, or generative linguistics about the importance of language for philosophy; hypotheses about mind, metaphysics, and meaning. [26S]

PHL351H Language and Logic
The sense - reference distinction; the theory of descriptions; model languages, the relation between theory of truth and theory of meaning, the semantics of modal notions. Readings include Frege and Russell. [26S]
Prerequisite: PHL245H

PHL355H Philosophy of Natural Science
An investigation of the structure and methods of science. Topics include: explanation, methodology, realism and instrumentalism, and the structure of theories such as relativity, quantum mechanics, or evolution. [26S]
Recommended preparation: PHL245H

PHL365H Contemporary Political Philosophy
A study of some of the best recent work by political philosophers on topics such as justice, rights, welfare, and political authority. [26S]
Offered in alternate years.

PHL370H Issues in Philosophy of Law
Major issues in philosophy of law, e.g., responsibility and punishment, the obligation to obey the law, legal positivism, law and morality. [26S]

PHL372H Issues in Philosophy of Education
A selection of issues and texts. [26S]

PHL373H Moral Education
A study of moral development, moral and values education and the moral and social implications of the teaching of morals. Topics will be examined against the background of some major theories in moral philosophy. [39L]

PHL375H Contemporary Moral Philosophy
A study of some of the best recent work by moral philosophers on topics such as the objectivity of values, rights and duties, utilitarianism, and the nature of moral judgments. [26S]
Offered in alternate years.

PHL395H Special Seminar in The History of Philosophy
An intensive study of some historical figure, theme or period. Topic to vary from year to year. [26S]
Prerequisite: Permission of the Instructor

NOTE: Prerequisite for 400 series courses is permission of the instructor. This will normally be given only where nine half courses (or the equivalent) in Philosophy have been completed.

PHL495H Senior Seminar in Philosophy
A seminar for advanced students in Specialist and Major Programmes in Philosophy. Topic to vary from year to year. [26S]

PHL496H/497H/498H/499H Individual Studies

Faculty Advisor: Professor H.W. Taylor
Physics was born of a desire to understand nature in a quantitative way. Guided by experiment and intuition, physicists arrive at mathematical relationships among various quantities. These relationships are then tested experimentally and extended by further research. The physics courses offered at Erindale are designed to help students both to understand and to use the concepts and relationships which have been developed, and to appreciate the need for continual questioning of scientific theories. The non-science student should gain insight into the nature of scientific investigation, while the student whose interest is in sciences other than physics should acquire a background knowledge leading to a deeper understanding of his own discipline. Students intending to specialize in physics will meet a broad programme of courses which will prepare them for advanced study.
The present programme in Physics at Erindale College employs the most up-to-date demonstration apparatus and undergraduate facilities. It has been designed to meet the diverse needs of the science students of the College.
Students wishing to specialize in physics should consult a physics professor.
Recommended first-year programme:
i) for physics and science specialistss
PHY140Y, MAT138Y(MAT132Y may be acceptable for some programmes)
ii)for pre-meds, general interest, etc. PHY120Y/132Y; MAT132Y/138Y
Second Course in Physics:
PHY221H and PHY 222H are recommended for students in Biology. PHY218H and PHY 219H are recommended for students in Survey Science, and, in general, anyone who wishes second courses in Physics.
Please see Section 5 for details of Programme Requirement.

PHY120Y Introductory Physics for Life Science Students
Vector kinematics, dynamics of particles and rigid bodies, friction, forces in fluids, hydrostatics, torques and static equilibrium, dynamics of rotating systems, concepts of work and energy, momentum conservation, impulse, fluid flow, vibration, elastic properties of solids, gas laws and introductory thermodynamics. Emphasis on application to biological systems where possible. [52L, 39P, 26T]
Exclusion: PHY 132Y/140Y
Prerequisite: Grade 13 Mathematics
Corequisite: MAT132Y/138Y
Recommended preparation: Grade 13 Physics and one additional mathmatics course helpful but not essential

PHY132Y World of Physics
(Formerly PHY118Y)
Recommended for students interested in a general survey course in physics. An overview of physics is presented starting from its classical foundations, through its evolution to the present and on to some of the challenges which lie ahead. Topics include: kinematics and dynamics of particles; special relativity; forces; work and energy; conservation laws; electricity and magnetism; nuclear and elementary particle physics.
Note: Students lacking grade 13 Physics may enrol in this course with the permission of the instructor. [78L, 39P, 26T]
Exclusion: PHY120Y, 140Y
Prerequisite: Grade 13 Mathematics, R&F/A, C, Physics
Corequisite: MAT132Y/138Y

PHY140Y Principles of Physics
Designed to provide science students with a thorough, quantitative foundation in physics and experience in applying physical principles. The course is a systematic development of classical physics and relativistic mechanics and their application to current problems in different sciences. Topics include: forces, statics, kinematics in two and three dimensions; special relativity, momentum, energy conservation laws, particle dynamics, gravitation; systems of particles, rotational motion, relativistic dynamics, oscillations, transport processes, electromagnetic fields and forces, the limitations of classical physics, and an introduction to quantum mechanics. This material will be discussed with applications to problems in elementary particle physics, nuclear physics, geophysics and other sciences. [78L, 39P, 26T]
Exclusion: PHY120Y/132Y
Prerequisite: Grade 13 Physics, Grade 13 Mathematics, R&F, C, A
Corequisite: MAT132Y/138Y
Recommended preparation: Good standing in Grade 13 physics and mathematics, including algebra

PHY218H Applied Electromagnetism and Electromagnetic Waves
Electrostatics, conduction, magnetism, magnetic force, induced currents, introduction to Maxwell's equations and radiation. Vibrating systems, waves in gases, liquids and solids; velocity of light, light sources, lasers, reflection, refraction, diffraction, interference, telescopes, cameras, optical transmission systems. Examples selected from applied physics and engineering. [26L, 13T]
Exclusion: PHY210Y, 221H, 240Y
Prerequisite: PHY120Y/132Y/140Y

PHY219H Introduction to Electronics
Resonance in AC circuits, diodes, rectification, semiconductors, transistors, linear amplifiers, oscillators, introduction to integrated circuits. Applications to data processing. [26L, 18P]
Prerequisite: PHY218H/221H/240Y

PHY221H Electromagnetism and Optics for Life Science Students
Wave generation, waves in gases, sound and hearing, absorption of acoustic radiation, light waves, reflection and mirrors, refraction and lenses, optical microscopes, limits of resolution, diffraction, interference, vision and the eye; electrostatics, electromotive forces, conduction, the electrical activity of nerves, magnetic force, induced currents, alternating currents, resonance. Emphasis on application to biological systems. [26L, 13T]
Exclusion: PHY210Y, 218H, 240Y
Prerequisite: PHY120Y/132Y/140Y

PHY222H Atomic and Nuclear Physics and Applications in the Life Sciences
Atomic properties of matter, quantum numbers, energy levels, photoelectric effect, the electron microscope, x-rays, absorption of radiation, radioactivity and radioactive decay, nuclear radiation physics. [26L, 13T]
Exclusion: PHY 210Y
Prerequisite: PHY120Y/132Y/140Y

PHY224H Technique of Physical Measurement
A course designed to familiarize students with some of the basic laboratory measurements and techniques used in research and development in fundamental physics and in industry. To include experimentation and instrumentation in optics, nuclear radiation physics, properties of materials and electronics. [26L, 78P]
Prerequisite: PHY120Y(with a minimum of 70% & P.I.)/132Y/140Y/ CHM150Y
Corequisite: Any 200 level PHY course

PHY240Y Electromagnetism
(Formerly PHY231Y)
An introductory course in electricity and magnetism. Topics include: Gauss's Law and electrostatics; DC circuits and instruments; AC circuits and resonance; magnetostatics and Faraday's Law; introduction to Maxwell's equations; electromagnetism in material media. Vector analysis will be introduced as required and a working knowledge of calculus and elementary differential equations is assumed. [52L, 26T]
Exclusion: PHY218H, 221H
Prerequisite: PHY132Y(with a minimum of 70% & P.I.)/140Y, MAT132Y/138Y

PHY257H Quantum and Statistical Mechanics I
A first course covering the development of basic concepts of quantum and statistical mechanics. Topics include: historical experiments, wave mechanics (including the deBroglie hypothesis and the Schroedinger equation), simple quantum mechanical systems, statistical uncertainty, entropy and temperature, the laws of thermodynamics, macroscopic systems at constant temperature, the Planck distribution for photons in blackbody radiation. [26L, 13T]
Exclusion: PHY254H, 256H
Prerequisite: PHY132Y (70% and P.I.)/PHY140Y, MAT132Y/138Y
Corequisite: (MAT233H/238Y) and (MAT214H/APM251Y)

PHY258H Quantum and Statistical Mechanics II
A continuation of PHY257H designed particularly for students intending to specialize in the Physical Sciences. Topics include: Thermodynamics of open systems, spin and statistical distribution functions, the Fermi-Dirac distribution, Boson physics, reversibility and irreversibility, classical thermodynamics, interacting particles, introduction to Hilbert space, the postulates of quantum mechanics, matrix formulation, the harmonic oscillator, angular momentum. [26L, 13T]
Exclusion: PHY254H, 256H
Prerequisite: PHY257H

PHY325Y Quantum Physics Laboratory
An introduction to modern physics through a set of selected experiments. Topics include: laser physics, atomic spectroscopy, microwave optics, absorption of gamma rays, nuclear coincidence counting, gamma ray spectroscopy, Rutherford scattering, nuclear magnetic resonance, ferroelectric hysteresis. [156P]
Prerequisite: PHY240Y/231Y

PHY326H Quantum Physics Laboratory
This course is one-half of PHY325Y. [78P]
Exclusion: PHY325Y
Prerequisite: PHY240Y/231Y

PHY332H Applications of Quantum Mechanics
This course continues the development of the basic foundations of Quantum Mechanics begun in PHY 257H and 258H and applies these ideas to a wide range of physical phenomena. Topics include Schroedinger equation, wave packets, uncertainty principle, commutation relations, orbital and spin angular momentum, particle in a square well, harmonic oscillator, black-body radiation, one-electron and multi-electron atoms, basic physics of semiconductors and metals, the nucleus, elementary particles and quarks. [26L, 13T]
Exclusion: PHY340Y
Prerequisite: (PHY218H/221H and 219H)/240Y,2[illegible] 257H
Corequisite: APM351Y/311H

PHY333H An Introduction to Classical and Continuum Mechanics
This course introduces the student to more advanced problems and formulations in mechanics. An attempt is made to help the student see similarities and differences in microscopic and macroscopic viewpoints, as problems involving both classical and continuum mechanics are considered. Thermodynamics is introduced as a tool, required to deal with macroscopic systems when temperature becomes an important variable. [26L, 13T]
Exclusion: PHY351H, 354H
Prerequisite: PHY257H, (MAT214H and 233H)/239Y

PHY334H Radiation, Fields and Matter
This course presents an overview of the theory of electromagnetic fields and radiation, together with applications to optics. Students should be familiar with electrostatics, magnetostatics, and the derivation and interpretation of Maxwell's equations. [26L, 13T]
Exclusion: PHY352Y
Prerequisite: PHY218H/231Y/240Y

JGP334H Physics of the Earth
A course dealing with the quantitative physical description of the earth, its dynamics, internal structure and tectonic history. Topics covered in detail are: radioactivity and radiometric dating of rocks; the rotation and dynamics of the earth; the earth's gravitational and magnetic fields; ancient magnetic fields; and seismological evidence for the internal structure and composition of the earth. Extensive use is made of potential field methods and solution of partial differential equations. [26L, 13T]
Prerequisite: PHY240Y
Recommended preparation: EPS100H/120H, 121H/236H/335H

PHY470Y Introduction to Research in Physics
An experimental or theoretical research problem under the supervision of a member of the Physics staff. By special arrangement, this research problem may be started during the summer before the student enters his final year.
Prerequisite: Permission of Physics Faculty Advisor

PHY471Y Supervised Readings
A programme of individual study chosen by the student with the advice of, and carried out under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest, or to explore interdisciplinary fields not available in the regular syllabus.
Prerequisite: Permission of Physics Faculty Advisor

Faculty Advisor: Professor A. Braun
Political science is the study of politics and government. In general, politics are the ways in which the decisions are made about who is to rule in a society and what laws and policies are to prevail within its physical boundaries, while government is the process by which general rules are carried out. Part of political science is given over to describing specific processes or events - for example, a particular Canadian party leadership convention or such Canadian conventions generally - in somewhat the same way as a biologist would describe something in physical nature. But political science will go from these particularities to generalizations. One may describe political violence in contemporary Canada within the framework of an analysis of violence in countries similar to ours or, even more generally, in all societies both past and present. The study of politics at Erindale deals not only with how politics and government *do* proceed but how they *should* be carried on in the light of a long tradition of political philosophy. Thus students will be introduced in some courses to such questions as: What tests do we apply to determine whether one kind of government is better than another? Who should rule? Under what conditions, if any, have people a moral obligation to disobey government?
In spite of its fascination for many people, political science is a demanding study. This is so partly because its subject-matter is very complex. But more than that, we all bring to political science opinions about what is and what ought to be which we have accepted uncritically. Here are some questions to which most people would give ready answers:
1) are totalitarian nations more likely than democratic countries to have aggressive foreign policies?
2) is it desirable that governments should not try to "legislate morality"?
3) are we more likely to control environmental pollution if we vest powers over such matters in larger rather than smaller units of government?
Although most of us would be willing to make snap judgments about such questions as these, each is very complex and our opinions are probably no better founded than are those of non-experts about, say, the law of relativity or the causes of the common cold. The study of political science will not eliminate political prejudices and is not directed toward eliminating political convictions; at a minimum, it gives a person more ability than he has otherwise, to give an account of the basis of his beliefs, both about what the political world is, and what it can and should be.

Students are urged to consult the Erindale Political Science Handbook and the Political Science

Undergraduate Handbook (available in the Political Science office, Room 34 Crossroads Building), both of which are published in the Spring, for detailed information on course offerings.

Students contemplating taking 400 series courses in Political Science at the St. George Campus are advised to consult either the Discipline Representative or the Undergraduate Secretary of the Department (978-3340) about balloting procedures.

Please see Section 5 for details of Programme Requirement.

POL100Y Introduction to Canadian Politics
A study of the political process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the cabinet, parliament, the judiciary, and the public service. [52L, 26T]

POL104Y Foreign Political Institutions
Foreign political movements and forms of government relevant to twentieth-century politics; Presidential government (United States); Parliamentary systems (France and Germany); Soviet Communism, and Nazi Germany. [52L]

POL200Y Political Theory
The development of political thought to the 17th century. Among the theorists examined are Plato, Aristotle, Machiavelli, Hobbes and Locke. [52L]

POL203Y Politics and Government of the United States
A comparative study of the development of American government and the main elements of the American political tradition; the structure and functioning of executives, legislatures, courts, bureaucracies, parties, and pressure groups in federal and state government; characteristic processes of American politics such as voting, bargaining, and regulation; and resultant patterns of public policy. [52L]

POL204Y Politics and Government of the U.S.S.R.
Historical development of the Soviet political and economic system; the leadership, party, public administration, political socialization, interest groups, dissent. [52L]

POL207Y Introduction to Public Administration and Public Policy
Major theories and concepts in the fields of public administration and public policy, drawing on the experience of Canada and other advanced industrialized nations. [52L]

POL208Y Introduction to International Relations
The contribution of the individual, the group, the nation, the state, and the international system to conflict and conflict management in the nineteenth and twentieth centuries, and an examination of the problems of equity and justice in the contemporary international system. [52L]

POL211Y Canadian Political Parties
(Formerly POL311Y)
The role and functioning of Canadian political parties, intra-party structures and processes, political culture and ideas, federal and provincial party systems, elections and voting. [52L]
Prerequisite: POL100Y
Offered in alternate years.

POL221H Political Participation
How and why do people get involved in politics? An examination of the behaviour of the ordinary citizen in Canada and the United States. Topics to be considered include: the development of mass democracy; the form and extension of popular participation; elections and voting behaviour; political protest movements. [26L]

POL222H Elites and Political Leadership
An introduction to the study of political leadership and the exercise of political power. Topics will include the relationship of political leaders to the non-political elites in society, the cohesiveness and responsiveness of political leadership, the turnover of elite personnel, and the characteristics and processes of decision-making. [26L]
Prerequisite: POL221H/one other POL course

POL302Y Politics and Government of Western Europe
Common features of political life in Western Europe and the particularities of such countries as West Germany, Italy, Britain, and France. Historical development of patterns of political opposition; relationships between social cleavages, party systems, political leadership, public policy. [52L]

POL307Y Public Administration and Public Policy in Canada
Combines a study of the organization, processes and issues in Canadian public administration with a study of the institutions and processes involved in policy making. Also focuses on the study of specific policy areas including some of the following: economic policy, social welfare, regional disparities, and industrial development. [52L]
Prerequisite: COM100Y/203H/POL100Y
(POL207Y is recommended but is not a formal prerequisite)

POL308Y Urban Politics
A comparative course dealing with Urban Politics in Canada, Britain and the United States. It will deal with governmental structure, political issues, and the political process in urban areas. A major element will be a research paper on some aspect of politics in the metropolitan Toronto area. [52L, 13T]

POL309Y The State in Planned and Market Economies
(Formerly POL214Y)
Examines the principal theoretical arguments of Liberalism, Marxism and Democratic Socialism; major differences within the Liberal and Marxist traditions as well as between them; the historical development and current problems of planned and market economies; the rule of law, politics, and the potential for democratic control in both capitalist and socialist societies. [52L]
Prerequisite: POL100Y/102Y/ECO100Y

POL312Y Canadian Foreign Policy
A theoretical and historical view of Canada's external relations; the Canadian foreign policy process, including policy approaches, government decision-making, domestic and external processes and instruments, techniques and bargaining; relations with the United States, Europe and the outer world; foreign policy in the diplomatic, military, economic and cultural sectors. [52L]
Prerequisite: POL208Y

POL314Y Public Opinion and Voting
An examination of the nature of political attitudes and opinions, the processes by which they are acquired, their use in describing political culture, and the role of opinions and attitudes as explanations of individuals' voting choices. Research on Canadian politics will be discussed in comparison with studies in other countries. [52L]

POL316Y Contemporary Canadian Federalism
Constitutional, political, administrative, and financial aspects of federal-provincial relations, regionalism and cultural dualism. [52L]
Prerequisite: POL100Y
Offered in alternate years.

POL320Y Modern Political Thought
The development of political thought in the 18th and 19th centuries; implications for political thought in the 20th century. Democratic and anti-democratic tendencies. [52L]
Prerequisite: POL200Y

POL327Y Comparative Foreign Policy
Comparative study of the foreign policies of the Soviet Union, the United States, Great Britain, France, and Germany.
Prerequisite: POL208Y

POL328Y International Organization
A weekly two-hour lecture concerned with the development, structures, and functions of international organizations. The emphasis is on the political impact of international organizations and international law in international relations. Attention will be focused on the two universal political organizations, the United Nations and its forerunner, the League of Nations. Other international organizations will also be considered. [52L]
Prerequisite: POL208Y

POL329Y Marxism
A survey of Marxist political thought dealing with Marx and Engels; the German Social Democrats; Lenin, Trotsky and the Russian revolution; Maoism; problems of contemporary communism. (First part of course lectures, second part seminars)
[26L, 26S]
Prerequisite: A course in political theory or philosophy

POL330Y Politics and Morality
The relation between the individual's quest for the good life and political order. The role of the wise man in civil society. Study of a small number of texts including Sophocles, Plato, Rousseau and Nietzsche. [52L]
Prerequisite: POL200Y

POL331H Ontario Government and Politics
Political structures and processes in Ontario; Cabinet government; the interaction of Cabinet, Legislature and public service; political parties and the party system; provincial-municipal relations. [26L]
Prerequisite: POL100Y
Offered in alternate years.

POL333Y Comparative Provincial Politics
(Formerly POL333H)
Parties and party systems, elections, voting behaviour, political culture, administrative machinery, decision-making processes and institutions, similarities and differences in public policy. [52L]
Prerequisite: POL100Y

POL340Y International Law
International law as an instrument of conflict resolution. Recognition, sovereign immunity, subjects of international law, and jurisdiction are some of the subjects examined. [52L]
Prerequisite: POL208Y

POL446Y 20th Century Political Thought
An interpretive study of central themes and issues. Representative thinkers: Nietzsche, Weber, the Frankfurt School, Camus, Arendt, Strauss. [52S]

POL459Y The Military Instrument of Foreign Policy
The relationship of military force to politics; Nuclear war and deterrence, conventional war, revolutionary war and counter-insurgency are examined from the perspectives of the U.S., the U.S.S.R. and other contemporary military powers. [52S]
Prerequisite: POL208Y and permission of the Instructor.

POL495Y Undergraduate Reading Course
A reading course in which the written component will be agreed upon between the student and instructor.
Prerequisite: Permission of Instructor and Discipline Representative

Faculty Advisors: Professors A. Fleming and J. Polivy

Psychology is the science that examines the structure and organization of behaviour in animals and man. It is concerned with the means by which behaviour is acquired and explores the mechanisms of adaptation to the social and physical environments. Emphasis is on cognitive, social, physiological, genetic, and other factors which determine or affect behaviour. Among the topics covered by psychology courses are developmental changes in behaviour, learning, the structure and organization of the senses, modes of perceiving and responding, the environment and genetic events which shape behaviour, the origins and implications of drives, motives, conflicts, and emotions, and the wide variety of individual and species differences which are produced by differences in genetic endowment, physiology, and past experience.
Because of the demands of science for rigor and objectivity, stress is given to the techniques by which behaviour is studied. Because psychology is the science of the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many psychology courses. An intensive examination of research findings is paramount in all psychology courses.
Students who are interested in psychology as a career must be prepared for several years of graduate study. Persons who hold a Ph.D. in psychology find employment in universities, research institutes, mental hospitals and clinics, government agencies, and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in psychology is not in itself a professional qualification. People holding bachelor's degrees in psychology typically find employment in a wide variety of business, technical, educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in psychology may be valuable to students planning various professional careers in medicine, law, nursing and education for example.

NOTE: P.I. (Permission of Instructor) is obtained by balloting in Room 3030 prior to 15 August for both Fall and Spring courses or prior to the first class for Summer courses.
(*) Courses designated by an asterisk require that the student arrange a faculty supervisor during the preceding term and ballot as well. Students may take no more than the equivalent of four "project" or "thesis" half courses.
Please see Section 5 for details of Programme Requirements.

PSY100Y Introductory Psychology
Psychology is the science of behaviour, and the course seeks to acquaint the student with the scientific method as it is applied in attempts to understand both human and animal behaviour.
This course is a prerequisite for all other psychology courses, except PSY201H and PSY202H
[52L, 26T]

PSY201H Research Design and Analysis in Psychology I
Basic descriptive and inferential statistics. [26L, 26T]
Exclusion: Any concurrent or previous statistics course

PSY202H Research Design and Analysis in Psychology II
Concerned with the design of experiments and the more advanced methods of statistical analysis, including complex analysis of variance. [26L, 13T]
Exclusion: Any concurrent or previous statistics course except PSY201H
Prerequisite: PSY201H

PSY210Y Introduction to Development
A survey of the scientific study of the behaviour of children. Topics include historical and philosophical background, methods and theories, and research on particular aspects of behavioural development. [78L]
Prerequisite: PSY100Y

PSY220Y Introduction to Social Psychology
A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes. [78L]
Prerequisite: PSY100Y

PSY230H Introduction to Personality
A survey of theories of personality, focusing on its formation and components, and an evaluation of the empirical status of each theory according to the current research literature. [39L]
Prerequisite: PSY100Y

PSY252H Animal Behaviour
A study of the social behaviour of organisms as observed and measured in both laboratory and field settings. The evolution and mechanisms of the behaviour of a variety of animals will be examined. Emphasis will be placed on the similarities and differences between species in such behaviours as courtship, mating, parental care, feeding, aggression, and other social behaviours. [39L]
Prerequisite: PSY100Y

PSY260H Introduction to Learning
A survey of empirical findings and theoretical interpretations relevant to the scientific study of the phenomena of learning and memory in human and animal subjects. [39L]
Prerequisite: PSY100Y

PSY270Y Introduction to Cognitive Psychology
A systematic investigation of thought processes and mechanisms underlying them. Topics include memory, problem solving, language and attention. [78L]
Prerequisite: PSY100Y

PSY280Y Perception
Emphasizes seeing and hearing. The ways the processing systems work in humans and lower animals. Visual perceiving of shape, space, motion, and colour. Auditory perceiving of simple and complex sounds, location, speech. Focus is on the perceiver as seeker and user of information. [78L]
Prerequisite: PSY100Y

PSY290Y Introduction to Physiological Psychology
An introduction to the study of the neural and endocrinological bases of behaviour, including aspects of normal and abnormal neural and cognitive development. [78L]
Prerequisite: PSY100Y

PSY303H(*) Individual Project
Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.
Prerequisite: PSY201H, 309H/a laboratory course, P.I.

PSY304H(*) Individual Project
Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.
Prerequisite: PSY201H, 309H/a laboratory course and P.I.

PSY309H Experimental Design and Theory
(Formerly PSY203H)
Problems involved in research design and the interpretation of experimental findings; the logical structure of psychological theories. Practice in the critical evaluation of research designs. [39L]
Exclusion: PSY203H
Prerequisite: PSY100Y, 201H

PSY311H Social Development
A survey of contemporary research and theory in various aspects of social development such as moral development, sex-role development, aggression, pro-social behaviour. [39L]
Prerequisite: PSY210Y

PSY314H Perceptual Development
A survey of current research in auditory and visual abilities in infancy and childhood. [39L]
Exclusion: PSY312H(G)
Prerequisite: PSY210Y/280Y

PSY315H Cognitive Development
A survey of contemporary research and theory in the development of language, thinking and intelligence, focussing on Piaget's views. [39L]
Exclusion: PSY312H(G)
Prerequisite: PSY210Y/260H/270Y

PSY316H Early Social Behaviour
An examination of research on topics such as attachment, dependency, and peer relations in infants and young children. [39S]
Prerequisite: PSY210Y, P.I.

PSY319H Developmental Psychology Laboratory
Readings, laboratory exercises and research projects designed to acquaint the student with methodology appropriate for infant and child study. [39P]
Prerequisite: PSY201H, 210Y, P.I.

PSY320H Social Psychology: Attitudes
Intensive study of social attitudes and opinions, including their development, description, measurement, modification, and organization. [39L]
Prerequisite: PSY220Y

PSY324H Aggression
Examination of the situational determinants of human aggressive behaviour. Some comparative literature will be related to a global view of the problem. Topics include: definition of aggression, aggression as arousal, alcohol and violence, personal space, anger and cognitive labelling, and deindividuation. [26L]
Prerequisite: PSY100Y

PSY329H Social Psychology Laboratory
Independent research projects in social psychology. Each project will include the design of an experiment, data collection, and a written report. [39P]
Prerequisite: PSY201H, 220Y, P.I.

PSY331H Psychological Tests
Critical analysis of objective and projective tests of intelligence, personality, interests and aptitudes will be undertaken with considerable emphasis given to reliability and validity research associated with these instruments. [39L]
Prerequisite: PSY100Y, a 200 level course in Psychology

PSY332H Advanced Personality
Detailed discussion of the extension of major theories of personality to treatment (therapy) for personality disorders, and research growing out of the theories. [26L]
Prerequisite: PSY230H

PSY340Y Abnormal Psychology
A survey of theories and research on abnormal behaviour and psychological treatment with special emphasis on social learning theory and behaviour modification techniques. [78L]
Exclusion: PSY240H(G)
Prerequisite: PSY100Y, a 200 level course in Psychology

PSY341H Psychopathologies of Childhood
Considers concepts of normal, abnormal and delayed development. Schemes of classification and diagnosis, approaches to identification of etiologies, and contemporary treatment methods are critically evaluated. The emphasis is on controlled research as a primary source of knowledge about psychopathology and treatment. [39L]
Prerequisite: PSY210Y/340Y

PSY342Y Practicum in Exceptionality in Human Learning
A seminar and practicum dealing with the philosophy and application of psychological principles in working with exceptional children, both handicapped and gifted. Seminar at Erindale, practicum through selective placement in elementary and secondary schools and other public agencies, under the supervision of the course instructor. [26S, 52P]
Prerequisite: 10 full course equivalents, including PSY210Y and P.I.

PSY354H Comparative Social Behaviour
Types of social organization and interaction in various animal groups will be discussed. Emphasis will be placed on the evolution, ontogeny, and biological functions of social behaviour in animal groups which possess complex social systems. [39L]
Prerequisite: PSY100Y, P.I.

JBP359Y Sociobiology: Biological Bases of Social Behaviour
(See Joint Courses)
Concepts of ethology, ecology, and population biology will be introduced and applied to the understanding of the evolution and biological function of social behaviour. Topics to be discussed will include altruism, aggression, social spacing, dominance, sex, parental investment and care, social symbioses, and the evolution of life histories. Emphasis will be placed on the complex social systems of insects and mammals. Laboratory ses-

sions will involve field observations, laboratory demonstrations, and the preparation of individual projects. Given by the Biology and Psychology departments. [56L, 78P]
Prerequisite: BIO100Y/201Y/203H, PSY100Y, P.I.

PSY373H Human Memory and Learning
Facts, theories, and methods in the study of human learning. Major emphasis will be on recent trends in the study of verbal learning, memory and verbal behaviour. [39L]
Exclusion: PSY371H(G), 372H(G)
Prerequisite: PSY260H/270Y (PSY270Y is strongly recommended)

PSY374H Introductory Psycholinguistics
A contemporary approach to the psychological study of language and speech, highlighting the biological and cognitive aspects of language acquisition and use. [26L]
Exclusion: JLP324H(G)
Prerequisite: PSY210Y/260H/270Y

PSY376H Psychology of Reading
Survey of various topics concerning reading processes and their acquisition, including perceptual processes in reading, reading comprehension and recall, learning to read, individual differences in reading skills, rapid reading, reading disabilities and artificial intelligence models of reading. Emphasis will be on an understanding of the underlying information-processing mechanisms. [39L]
Prerequisite: PSY260H/270Y

PSY379H Human Memory and Learning Laboratory
Experiments will be carried out to illustrate recent theoretical and experimental issues. Students use themselves (and other students) as subjects and they design, carry out and report experiments in this area. [39P]
Prerequisite: PSY201H, 270Y/373H, P.I.

PSY389H Sensory and Perceptual Processes Laboratory
The fundamentals of sensory and perceptual processes. Students conduct laboratory experiments, using each other as subjects. [39P]
Prerequisite: PSY201H, 280Y, P.I.

PSY390H Advanced Topics in Physiological Psychology
(Topics change periodically)
Current areas of research in physiological psychology will be explored in detail. These areas will include the following: the hormonal bases of human and animal behaviour, the development of motivational systems and perceptual capacities, the physiological bases of memory, language, and other higher cortical functions in man, and the neurochemical bases of sleep and emotion. [39L]
Prerequisite: PSY290Y, P.I.

PSY393H Cognitive Neurology
Problems in cognitive psychology will be explored from the viewpoint of clinical neurology. Some sample topics: amnesia and models of memory; split-brain research; the temporal lobes and verbal and non-verbal memory; the role of the frontal lobes; perceptual asymmetries in normal people; models of brain function. [26L]
Prerequisite: PSY100Y, 270Y/290Y

PSY394H Motivation and Emotion
This course will examine models of emotion froma an historical and theoretical perspective. Close attention will be paid to the role of cognitive-perceptual, autonomic and somatic variables particularly as they relate to the phenomenology of emotion and the motivation of behaviour. [26L]
Prerequisite: PSY100Y, a 200 level course in Psychology

PSY399H Psychobiology Laboratory
Supervised demonstration experiments designed to familiarize students with methods of collecting, analysing, and reporting data in ethological and physiological experiments employing animal subjects. Students will also learn how to handle selected species of animals. [39P]
Prerequisite: PSY201H, 290Y, P.I.

PSY400Y(*) Thesis
Each student will conduct independent research and write a thesis under the supervision of a staff member(s). Seminar meetings will be held weekly to discuss: (a) general topics important to the conduct of research; (b) student research proposals; (c) thesis results. Admission decided on the basis of academic merit. [78S]
Prerequisite: PSY201H/BIO360Y, PSY309H/ laboratory course in Psychology, satisfactory progress in the Specialist Programme in Psychology or Interdisciplinary Specialist Programme in Animal Behaviour, P.I.

PSY403H(*) Individual Project
Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.
Prerequisite: PSY201H, 309H/a laboratory course, P.I.

PSY404H(*) Individual Project
Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. Prerequisite: PSY201H, 309H/a laboratory course, P.I.

PSY410H Special Topics in Developmental Psychology
(Topics change periodically)
Examination in depth of a limited topic within developmental psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. [39S]
Prerequisite: PSY210Y, P.I.

PSY420H Special Topics in Social Psychology
(Topics change periodically)
Examination in depth of a limited topic within social psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. [39S]
Prerequisite: PSY220Y, P.I.

PSY440H Special Topics in Abnormal Psychology
(Topics change periodically)
Examination in depth of a limited topic within abnormal psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. [39S]
Prerequisite: PSY340Y, P.I.

PSY480H Special Topics in Perception
(Topics change periodically)
Examination in depth of selected topics within perception. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. [39S]
Prerequisite: PSY280Y, P.I.

Faculty Advisor: Professor L.E. Schmidt
The academic study of religion involves the examination of many forms of religious life, including such major traditions as Buddhism, Christianity, Hinduism, Islam and Judaism, from a variety of perspectives (for example, historical, philosophical, social scientific, textual). The diversity which characterizes this study is reflected in the variety of courses offered or crosslisted by the Department, and by the wide range of training and expertise of our faculty.
The study of religion offers usefulpreparation for participation in a religiously diverse world. As an inquiry into an important dimension of human experience it is intrinsically valuable and satisfying, but can also help prepare one for a wide range of careers (e.g., socialwork, law, politics from the localto the international level, teaching, medicine, leadership in religious organizations). The academic study of religion can also lead to graduate work in such programmes as the M.A. and Ph.D. degrees at the University's Centre for Religious Studies.
Specialist, major, minor and joint programmes are described in detail in the Department of Religious Studies' Handbook. These programmes may include a limited number of relevant courses offered by other Colleges or by departments such as Anthropology, Classics, East Asian Studies, English, Fine Art, History, Middle East and Islamic Studies, Near Eastern Studies, Philosophy, Psychology and Sociology.
Enquiries: Faculty advisor (828-5275) or Department of Religious Studies, 110 Charles St. West. (978-2395)

Please see Section 5 for details of Programme Requirement.

REL100Y World Religions: An Introduction
An introduction to various traditions from prehistoric to modern times, including Judaism, Hinduism, Zoroastrianism, Buddhism, Taoism, Confucianism, Shinto, Christianity and Islam. Comparison of ideas, attitudes, practices and institutions. [52L, 26T]
Exclusion: REL220Y

REL105Y Contemporary Problems in Religious Ethics
An introduction to the analysis of ethical problems in the context of religious studies. Abortion; euthanasia; militarism; sex, marriage and the changing roles of men and women; reproductive technologies.
[52L, 26T]

REL203Y Religion and Literature
The problems of doubt and faith, despair and hope, flesh and spirit, vice and virtue, sin and grace, suffering and freedom, mortality and immortality, in the works of selected imaginative writers. Critical analysis, in terms of classical theological categories, of selections from such authors as Dostoyevsky, Bernanos, Mauriac, Eliot and Camus. (All works to be read in English). [52L, 26T]

REL207H Religion and Identity in Canada
Personal and social identity as created and expressed through such Canadian religious groups as "mainline" religious traditions, evangelical sects, pentecostal-charismatic movements, ethnic churches, and the "new religions". Religious behaviour studied as the interplay between believing and belonging. [26S]
Recommended preparation: REL105Y

REL210H Hope and the Human Condition
Twentieth-century Christian responses to the judgment that man's "origin, his growth, his hopes and fears, his loves and beliefs are but the outcome of the accidental collocation of atoms" (Bertrand Russell). The significance of hope for personal, social and political life according to such thinkers as Macquarrie, Moltmann, Ellul and Metz. [26S]

REL212Y Major Themes in Biblical Literature
Major religious themes running through biblical literature. Old and New Testament concepts of creation, election, covenant, salvation, divine law, prophecy, wisdom, justification, etc. [52L, 26T]

REL224H Technology, Ethics and the Future of Humanity
The role of technology within various projections of global economic development. Assumptions about human life and nature implicit in such projections. Ethical and religious implications of issues such as the energy crisis, modernization of the Third World, expansion of multinational corporations, the nuclear arms race and environmental pollution. [26S]
Recommended preparation: REL105Y

REL230Y The Roles of Religion in Human Development
The positive and negative roles which religion has played and continues to play in human development. A general analysis of personhood and the need in authentic human living for self-transcendence. The phenomenon of faith; religion as wonder; religion as meaning; and religion as health. [52L]

REL241Y Introduction to the New Testament
An introduction to the types of literature in the New Testament (Gospels, Acts, Epistles, Apocalypse) and to the distinctive content of the literature as a whole. The history of texts and versions, the process of canonization of the literature, and the critical methods of scriptural study are examined. [52L, 26T]

REL261Y Christianity in the Context of World Religions
The role of Christianity among religions; its contribution to human ethical and religious ideas. Studied in its historical development and through an analysis of its institutions, practices and teachings. [52L]

REL304Y Religion and Culture in Asia
Religion as a cultural determinant in South, Southeast and East Asia. Cultural expressions of religious values and meanings, e.g., in art, architecture, life-style, basic attitude, ethnic and national identities. [52S]
Recommended preparation: REL200Y/220Y/267Y/268Y

REL314H Life and Teachings of Jesus
Analytic and comparative study of the earliest accounts of Jesus; the "historical Jesus" viewed in the light of Jewish Messianic expectations. [26L, 13T]
Prerequisite: REL228Y/241Y/another course in biblical literature

REL319H Life and Letters of Paul
The literary form of Paul's letters, the sources of his thought and the theological view that emerges. [26L, 13T]
Prerequisite: REL228Y/241Y/another course in biblical literature

REL361Y World Religions: A Comparative Study
A comparative study of World Religions, including their role and significance in modern secular society. Agreements and differences in teachings and practices among World Religions. Arguments for and against a universal religion. A review of various proposals for the future direction of World Religions. [52S]
Recommended preparation: REL100Y/200Y

REL362Y Evolution: Cosmic and Religious Implications
Biblical, patristic and medieval, philosophical and theological antecedents to the theory of scientific evolution. Nineteenth century developments. The thought of Teilhard de Chardin as a twentieth century Christian interpretation. Concepts of building the earth, converging and personaliz-

ing universe, matter and spirit, energetics of love. Evolution as it relates to religious themes of creation, faith, sin and evil, cosmic Christ, hope and the end of time.
Exclusion: REL233Y
Recommended preparation: one previous REL course

REL363H Evil and Sin: A Christian Interpretation
The biblical and theological foundations for a Christian interpretation of evil and sin. Evil as problem and as mystery. Old misunderstandings and new insights into a theology of sin. Sin as act and as condition (sinfulness). The role of evil and sin in the process of religious development.
Recommended preparation: One previous REL course

REL375Y The Development of Christian Identity
The development of Christian identity, (1) as examined from a psycho-social, ethical and theological perspective; (2) as revealed in personal documents like autobiographies, diaries and letters; (3) as a challenge in a secularized, technological society dominated by the mass media.
Recommended preparation: REL105Y/230Y
Prerequisite: one REL course

REL490Y Individual Studies
Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

REL491H Individual Studies
Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

REL492H Individual Studies
Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

Faculty Advisor: Professor W. Kalbach
One of the essential questions sociologists have had to confront concerns the extent to which the individual is determined by society and to what extent he is a determinant of society. In examining such questions, sociologists use the methods of science as well as those of the humanistic disciplines. The answers are not self-evident and traditional explanations often prove unreliable, both as a source of understanding and as a guide to action. Sociology provides another approach for assessing existing knowledge and developing more valid theories of social behaviour and the nature of society.
Students in other fields may gain from the study of sociology a clearer understanding of the human and social condition as it relates to their chosen profession and to contemporary institutions in general. There are opportunities in Canada and abroad for professional sociologists in teaching, research, administrative and consulting positions. A professional career in sociology usually requires advanced training beyond the undergraduate level.
There are a variety of areas of interest which the student may select for emphasis in the specialist and major programmes. The subspecialty areas in sociology are listed below and the Department is prepared to recommend, in consultation with the student, programmes which emphasize Canadian society, urban sociology, interpersonal relations, research methods or some other combination of courses. Students entering the sociology programme should enrol with the Department of Sociology *before the end of the first term in their second and subsequent years* and should seek advice from the advisor or other instructors in the Department while working out their programmes. Registration in the final year of studies is necessary to confirm that all requirements are being met and to insure that the specialist, major, or minor status will be noted on one's graduating transcript. Students should check with the departmental advisor when enrolling in the Department.
The Department of Sociology offers a Specialist, a Major and a Minor Programme in Sociology.

Please see Section 5 for details of Programme Requirement.

SOC101Y Introduction to Sociology
An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society. [52L, 26T]
Exclusion: SOC216Y

SOC152Y Introduction to Communication Theory and Research
This course aims at presenting the major theories of verbal and nonverbal communication. The principal purpose is to familiarize the student with the various possibilities of analyzing communication from the point of view of psychology, sociology, philosophy, linguistics, drama, physics and religious studies. The course further aims to acquaint the student with the research methods most commonly used in designing experiments in communication. [52L, 26T]
Prerequisite: SOC101Y/216Y either previously or concurrently

SOC200Y Introduction to Social Research
How social observations are used to develop and test sociological ideas. A variety of theoretical approaches and research techniques are critically examined to illustrate general principles of conceptualization, measurement, and explanation. [52L, 26T]
Prerequisite: SOC101Y/216Y
Offered in alternate years.

SOC201Y Social Statistics
An introduction to data analysis which emphasizes understanding rather than mathematics, exploratory techniques (how to look for hypotheses); corresponding confirmatory techniques (how to test hypotheses). Basic analysis of variance, regression, chi-square; tables and graphs. [52L, 26T]
Exclusion: Statistics courses
Prerequisite: SOC101Y/216Y
Offered in alternate years.

SOC202Y Structure of Interpersonal Relations
A study of patterned relationships, social roles, and social expectations that arise out of interaction among individuals. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC203Y History of Social Theory
Origins and development of the classical tradition of sociological theory; the social and political ideas of this tradition; historical contexts, ideological elements and contemporary relevance. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC205Y Urban Sociology
Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies. Studies human behaviour in its multifaceted relations with the urban environment. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC206Y Social Organization
Classical and recent theories specifying the organizational bases of different types of society. These are applied comparatively through empirical studies of selected topics. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC207Y Sociology of Work and Occupations
The nature and meaning of work in relation to changes in the position of the professions, unions and government, of women and minority groups, and in industrial societies more generally. Career choice and strategies, occupational mobility, and individual satisfaction at work. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC210Y Ethnicity in Social Organization
Impact of racial, ethnic, and linguistic heterogeneity and of various patterns of immigration on economic, political, and cultural institutions, and on individual identity, self-conceptions, social attitudes, and relations. [52L]
Prerequisite: SOC101Y/216Y

SOC212Y Deviance and Control
A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC214Y Sociology of the Family
Development of the contemporary western family with special emphasis on changing relations among its members. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC215Y Socialization
The acquisition and reproduction of personality, culture, and social structure. Topics will include socialization and the socio-biology debate, psycho-social, cognitive, and behaviouristic approaches to human development, child-rearing practices, sex-role acquisition and learning, structural influences on values, attitudes and aspirations, political socialization, adult socialization and aging, and the comparative study of socialization. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC216Y Advanced Introduction to Sociology
Introduction to sociology through an intensive critical examination of selected parts of the discipline; intended for students who cannot enrol in a 100 series course. (Not open to first year students or students from outside Arts & Science) [52L, 13T]
Exclusion: SOC101Y

SOC220Y Canadian Society
An analysis of the changing structure of Canadian society. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC245Y The Sociology of Aging
Social gerontology is a growing discipline dealing with many social aspects of advanced age, e.g., problems of retirement, post-retirement life,a living arrangements and family, changes in identity, new roles for later life. [52L]
Prerequisite: SOC101Y/216Y

SOC280Y Communication and the Extraordinary
The study of persons labeled "exceptional" in mundane settings (family, school, leisure, etc.) and of those labeled "ordinary" in extreme settings (concentration camp, natural disaster, exile, etc.). Emphasis will be placed on the child and adolescent and how he shuttles in and out of the roles of perpetrator, victim, spectator and survivor as information becomes available from his verbal and non-verbal communicational acts. [26L, 26T]
Prerequisite: SOC101Y/216Y, 152Y

SOC284Y Communication and Ethics
This course examines the different ways that the flow and the content of information are controlled by various agencies, as well as the effects of censorship, or lack of it, on society. [52L]
Prerequisite: SOC152Y

SOC301Y Social Inequality
Examines the various systems by which, in all human societies, rewards (such as prestige, power, wealth, and others) are differentially distributed, and the principal theories that have attempted to account for these phenomena. [52L, 26T]
Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC303H Careers in Crime and Delinquency
An examination of delinquent and criminal lifestyles from the perspectives of social psychology, the sociology of occupations, and the sociology of law. The etiology, social history, organization, and societal response to different types of crime and delinquency are considered. Special attention is given to the career criminal. [26L, 13T]
Prerequisite: SOC101Y/216Y, 212Y

SOC304Y Change and Conflict in Contemporary Society
An examination of technical, social, and ideological changes accompanying industrialization in both developed and underdeveloped nations. [52L, 26T]
Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC305Y Sociology of Religion
Various theories of religious behaviour and organization are examined with special attention given to the role of religion in relation to social change and social integration. Current research and methods of study will beastressed. [52L, 26T]
Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently
Offered in alternate years

SOC306Y Sociology of Crime and Delinquency
Definitions and sociological explanations of crime and delinquency. Social background of Canadian criminal law; the role of police, courts, prisons and other institutions of social control. [52L]
Exclusion: WDW203Y
Prerequisite: SOC212Y

SOC308Y The Canadian Media
An analysis of the institutional foundations and constraints of Canadian printed, filmed and electronic media. Emphasis will be placed upon the historical development of the Canadian media including foreign influences on policy and decision making; the role of such bodies as the CRTC and provincial censorship boards; national versus private broadcasting; bilingual and multilingual media; and the impact of videotext systems, such as Telidon. [52L, 26T]
Prerequisite: SOC152Y, 1 Sociology course at the 200 level either previously or concurrently

SOC309Y Sociology of Mass Communication
The course first critically appraises some modern communications theorists - Innis, McLuhan, Meier - and then dissects some old and new Canadian media institutions. Special emphasis on the origin and destiny of innovation, governmental media organizations and their articulation with media institutions. Participants create a project utilizing one medium. [52L, 26P]
Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC311Y Sociology of Education
An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions. [52L, 26T]
Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently

SOC312Y Population and Society
An analysis of population change and consequences from both global and Canadian perspectives. Trends in mortality, fertility, and migration are examined relative to their significance for growth, and their relation to social structure and social change. [52L, 26T]
Prerequisite: SOC101Y/216Y, 200Y/201Y

SOC313Y Sociological Theory
The development of sociology and contributions of particular sociologists whose concepts not only have historical interest but also illumine the subject matter and method of contemporary society. [52L, 26T]
Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently

SOC315Y Interaction in Institutional Settings
Ethnographic description and comparative analysis of standard social occasions taking place within the domains of the corporation, the church, school, government, and the court. The primary course objective is the observation and documentation of the everyday enactment of institutional "rules of the game" for social interaction. [52L]
Prerequisite: SOC101Y/216Y, 1 SOC course ab 200 level either previously or concurrently
Offered in alternate yearso

SOC316Y Group Structure and Process
The study of small group processes and structures, including leadership, influence, cliques and coalitions, communication patterns, productivity and morale. [52L, 26T]
Prerequisite: SOC101Y/216Y, 202Y
Offered in alternate years.

SOC319Y Gene Culture Coevolution
Some recent developments in social theory are examined with particular emphasis placed on three evolutionary processes - 1) biological evolution; 2) the "evolution" of behaviour in individual life cycles (individual learning); and 3) sociocultural transmission and evolution; and how these three processes are thought to interact with and affect each other to produce human social behaviour. [52L, 26T]
Prerequisite: ANT100Y/SOC101Y/216Y, BIO101Y/PSY100Y

SOC321H Social Research Methods II: Techniques and Applications
Theoretical and applied problems in research design, sampling and measurement with emphasis on survey research. [26L, 13P]
Prerequisite: SOC101Y/216Y, 200Y
Offered in alternate years.

SOC322H Social Statistics II: Techniques and Applications
The understanding and application of multivariate analysis using computers in the survey research environment. [26L, 13P]
Prerequisite: SOC101Y/216Y, 201Y
Offered in alternate years.

SOC324Y Politics and Society
The social basis of politics. Culture and social organization in their relation to power and its application. [52L, 26T]
Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently

SOC325Y Sociology of Health and Medicine
Medicine is examined as a sociocultural phenomenon. A comparative approach will be used to analyze sociocultural processes related to disease and illness etiologies; the social organization of health care; utilization patterns; and the development of healer and patient roles. [52L, 26T]
Prerequisite: SOC101Y/216Y, at least 1 SOC course at 200 level either previously or concurrently

SOC327Y Sociology of Death and Dying
An analysis of death and the process of dying as social and cultural phenomena with emphasis on the complex of beliefs, ideas and actions relative to death. [52L]
Prerequisite: SOC101Y/216Y, one of SOC215Y/245Y/312Y/325Y

SOC328H Environmental Sociology
An examination of the multi-faceted relationship between the physical environment, especially the built environment (e.g., buildings) and human behaviour. Principles underlying people's use of space and the potential significance of the environment as a variable in the study of human behaviour will be considered. [78S]
Prerequisite: SOC101Y/216Y, 205Y

SOC329H Collective Behaviour
An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving a study of relationships between forms of collective action and the more conventional order, i.e., the relationship of collective behaviour to social action and control, stability and change. [26L, 13T]
Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC330H Race and Ethnic Relations
Social processes involved in minority relations in terms of race and ethnicity and their social, economic, and political consequences. [26L, 13T]
Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC331Y Communication and Feeling
Sociological and communicational analysis of feeling and "affective-assessment" polarities, e.g., love-hate, trust-mistrust, admiration-disdain, etc., in the context of everyday settings with emphasis on the family, extramarital relationships (hetero and homosexual), friendships and educational institutions. [26L, 26T]
Prerequisite: SOC152Y, 1 SOC course at the 200 level either previously or concurrently

SOC334Y Communication and Children
Description and analysis of children's verbal and nonverbal communication networks, patterns and skills in the playgroup, in the classroom and with siblings, and with teachers, parents and some other adults. [26L, 26T]
Prerequisite: SOC152Y, 1 SOC course at the 200 level either previously or concurrently

JGS340Y Concepts, Methods and Values in Urban Studies
(See Joint Courses)
Designed for students concentrating in urban studies irrespective of major disciplinary area. A survey of a variety of types of urban study from the social science perspective. Linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. Given by the Departments of Sociology and Geography. [52L, 26T]
Prerequisite: SOC101Y/216Y, 205Y/GGR245Y, SOC200Y/201Y/(GGR202H, 207H, 280H)

SOC346Y Society, Organization, and the Individual
An analysis of formal organizations, e.g., hospitals, prisons, schools, business firms, government agencies, etc., focusing upon their structural characteristics, effects of social environments, and the influence upon their members. [52L, 26T]
Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC 390Y/391H/392H Independent Research
Intended for Sociology Specialists and Majors who have completed ten university courses, i.e., are in third year, and who wish to explore in depth a particular subject area in sociology. Students must have completed or be taking concurrently the required method and theory courses (SOC 200Y/201Y, 313Y, or their equivalent), and have attained a B average in SOC courses. Students may take a maximum of two full course credits, or equivalent, of independent studies. Not more than one full course or equivalent may be taken with the same instructor. To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor.

NOTE: *FOURTH-YEAR COURSES* provide the opportunity for greater specialization in the five sociology subspecialty areas than is generally possible in the second or third years of the sociology program. The actual content for "selected topics" courses will vary in focus from year to year. Students are advised to check with the Faculty Advisor/Sociology Office for more specific information re availability, course outlines and for instructions on *balloting*, which is required.

SOC410H Selected Topics in Theory and Research Methods I
[26S, 13P]
Prerequisite: SOC200Y/201Y for research methods topics, SOC313Y/203Y for sociological theory topics, at least one additional course beyond the introductory level in this subspecialty area

SOC411H Selected Topics in Theory and Research Methods II
[26S, 13P]
Prerequisite: Same as for SOC410H

SOC420H Selected Topics in Interaction I
[26S, 13P]
Prerequisite: SOC200Y/201Y, SOC313Y/203Y, at least two additional courses beyond the introductory level in this subspecialty area

SOC421H Selected Topics in Interaction:II
[26S, 13P]
Prerequisite: Same as for SOC420H

SOC422H Selected Topics in Societies, Urban Life or Inequality:I
[26S, 13P]
Prerequisite: SOC200Y/201Y, SOC313Y/203Y, at least two additional courses beyond the introductory level in the designated subspecialty area.

SOC423H Selected Topics in Societies, Urban Life or Inequality II
[26S, 13P]
Prerequisite: Same as for SOC422H

SOC490Y/491H/492H Independent Research
Open only to students who have completed fifteen university courses, i.e., are in fourth year, and have a B average in SOC courses. For other requirements and restrictions, see SOC390Y/391H/392H.

Faculty Advisor: Professor E.G. Neglia

Hispanic culture offers a variety probably unrivaled by any other modern western culture. In the Middle Ages Spain was the vital point of contact between the Christian, Jewish and Islamic civilizations; in its Golden Age it led the way in the exploration and settlement of the New World, and established a great empire in the process; today it is estimated that the Spanish language is the third most widely-spoken in the world.

Spanish studies has a twofold goal; the first, to learn to speak, understand, read and write with ease a language shared by over two hundred million people; the second, to become familiar with the civilization and intellectual life of the Hispanic world through the study of the artistic and literary phenomena of that world.

Courses are offered for beginners in the language, as well as those with grade 13 standing or equivalent. Stress is laid on both spoken and written language and the language laboratory is used to promote fluency. After the first year all courses, both literary and linguistic, are conducted in Spanish as much as possible to give the student maximum exposure to the language.

Two courses, Spanish Civilization and Culture, and Latin American Civilization and Culture, are offered in English and may be taken by students in any year. These courses provide comprehensive views of the social, political, artistic and intellectual developments of Spain and Latin America and have proven useful not only to students studying the language but also to those who may have an interest in the Hispanic scene for other reasons.

Core language courses are offered in all years. Students wishing to specialize would, in addition to these core courses, follow programmes in literature and linguistics designed to allow them to enter Graduate Studies in Spanish or Type A courses at the Faculty of Education. Students may elect a single specialization (10 courses) or a combined specialization programme of Spanish and another language (7 courses) (see Modern Languages and Literatures). In addition, Erindale offers a major programme in Spanish consisting of 6 courses, and a minor programme of 3 courses.

Opportunities for qualified teachers exist at the secondary and university levels. In addition, the study of Spanish as of other modern languages, may prepare students for careers in the foreign service, journalism, publishing, commercial and cultural relations between Canada and Spanish-speaking countries. The development of closer Canadian relations with Spain and Latin America will extend the range of opportunity for those well versed in the Hispanic field.

In addition to Erindale course offerings, other courses may be taken on the St. George campus

with the permission of the Faculty Advisor. Students may also wish to participate in the Study Elsewhere programme.
Early consultation with the staff is essential if the student is to be assured of a programme suitable for his needs and interests.
Courses with low enrolment may have to be withdrawn. While every effort will be made to accommodate students locally according to their needs, those in the Specialist and Combined Specialist programmes should be prepared to take one or two of their courses on the St. George Campus.

Please see Section 5 for details of Programme Requirement.

SPA100Y Spanish Language for Beginners
For those who have had no previous background in Spanish. By the end of the year, students should have sufficient skill in the written and spoken language to be able to specialize in Spanish if they wish. Emphasis will be placed on oral practice both in class and in the language laboratory. [78L, 26P]
Exclusion: Grade 13 Spanish

SPA220Y Composition and Oral Practice II
Conducted mainly in Spanish and designed for those who have completed a basic course in the language. A grammar review and intensive written and oral practice provide an opportunity for a greater range of expression and a broader understanding of the language. [52L, 26T]
Prerequisite: Grade 13 Spanish/SPA100Y

SPA250Y Spanish Civilization and Culture (In English)
Historical approach to selected topics in Spanish culture and civilization, including literature and art, with special attention given to Spain's interplay with other Mediterranean areas, especially that of Islam. Illustrative material. [52L, 26T]
Offered in alternate years.

SPA258Y Forms of Modern Hispanic Literature
An introduction to ways of analysing literature through a study of Modern Hispanic literary texts (drama, prose and poetry). [52L, 26T]
Exclusion: SPA247H, 257H
Prerequisite: Grade 13 Spanish/SPA100Y
Offered in alternate years.

SPA280Y Latin American Civilization and Culture (In English)
From the pre-Columbian civilization (Aztec, Maya and Inca) to the present; deals with significant manifestations in literature, art, music, architecture. Discussion of social, economic and political problems of Latin America. Illustrative material. [52L]
Offered in alternate years.

SPA320Y Composition and Oral Practice III
Conducted mainly in Spanish and designed to meet the needs of those who already have a good basic knowledge of the language. Emphasis on improvement of style, translation, essay writing and oral practice. [52L, 26T]
Prerequisite: SPA220Y

SPA343H Approaches to Golden Age Drama
A survey of Spain's most fertile, original and historically significant period of dramatic production. Special attention will be given to critical methods, structural analysis and dramatic theory. The plays studied will also be related to the sociocultural context of the age. [26L, 13T]
Exclusion: SPA350Y
Prerequisite: SPA220Y, one other course in the 200 or 300 series
Offered in alternate years.

SPA348Y Modern Hispanic Drama
The major Spanish and Spanish American playwrights of the 20th century. Plays will be discussed and analyzed and, to reveal their full meaning in tangible theatrical terms, students will be encouraged to participate in the actual performance of some plays in a real theatre atmosphere. [52L]
Exclusion: SPA346H, 376H
Prerequisite: SPA220Y
Offered in alternate years.

SPA353H Golden Age Prose
A study, in Spanish, of the varieties of fiction during the sixteenth and seventeenth centuries with special reference to Cervantes. The texts will be related to the historical setting that gave rise to them and the relationship between reality and fiction will be discussed. [26L, 13T]
Exclusion: SPA350Y
Prerequisite: SPA220Y/one other course in the 200 or 300 series
Offered in alternate years.

SPA356H Modern Spanish Novel
Covers the period from the beginning of the realistic novel in the nineteenth century up to the present day. Students will be expected to do a certain amount of reading of original texts as a preparation for their classes and a good working knowledge of Spanish is assumed as the course will be given in Spanish. [26L]
Prerequisite: One or more SPA 200 series courses
Offered in alternate years.

SPA366H Modern Spanish American Poetry
A study of some major poets and the different currents in Spanish American poetry; Pablo Neruda, Cesar Vallejo for special study. [26L]
Prerequisite: One or more SPA 200 series courses
Offered in alternate years.

SPA382H Modern Spanish American Novel
A study of the representative novels of Spanish America, including the regional and Indianist novel as well as that of the Mexican revolution. [26L]
Prerequisite: One or more SPA 200 series courses
Offered in alternate years.

SPA385H Spanish American Stories
Representative works of outstanding Spanish American short story writers including Quiroga, Cortazar, Rulfo and Borges. [26L]
Prerequisite: One or more SPA200 series courses
Offered in alternate years.

SPA420Y Advanced Composition and Oral Practice IV
Designed for those who already have a good knowledge of the language. Emphasis on ability to write and speak good Spanish through translation, essays, letters, class discussions, etc. [52T]
Prerequisite: SPA320Y

SPA425H History of the Spanish Language
Begins with an introduction to phonetics, phonology and basic concepts of linguistics. Proceeds to the study of the evolution of Spanish from its Vulgar Latin origins up to the present day. An attempt will be made to relate linguistic development to historical and cultural aspects. Some general knowledge of Latin is desirable. Interest in theoretical linguistics and a working knowledge of Spanish will be assumed. Given in Spanish. [26L]
Prerequisite: SPA220Y
Offered in alternate years.

SPA436H Contemporary Spanish Poetry
A study of some major poets and poetics of the twentieth century. The lectures will be in Spanish. [26L]
Prerequisite: SPA220Y
Corequisite: SPA320Y
Offered in alternate years.

Faculty Advisor: Mrs. O. Fraser
Statistical theory and methodology have applications in almost all areas of science, engineering, business, government and industry. The practising statistician is involved in such diverse projects as designing clinical trials to test a new drug, economic model-building to evaluate the costs of a guaranteed-income scheme, predicting the outcome of a national election, planning a survey of television viewing habits, and estimating the animal population in a popular hunting district. Today's consumer is bombarded with the results of so many quantitative studies using statistical methodology that it is necessary for him to know something about statistics in order to be properly critical. A basic knowledge of statistics should be an integral part of everyone's general education.
STUDENTS WHO ARE INTERESTED IN A PROGRAMME ARE STRONGLY URGED TO HAVE EARLY CONSULTATION WITH THE FACULTY ADVISOR OR ANY STAFF MEMBER.
NOTE: Some courses required for Major and Specialist Programmes may be available only on the St. George Campus.

Please see Section 5 for details of Programme Requirement.

STA202H(I) Statistics
Acquaints beginning students in the biological, physical and social sciences with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. [26L, 13T]
Exclusion: Any concurrent or previous Statistics course

STA212H(I) Application of Statistics
A continuation of STA202H including an introduction to non-parametric, analysis of variance and linear regression techniques. Students interested in taking this course should consider carefully the courses listed below as exclusions and choose the appropriate sequence after discussion with faculty members. STA202H and 212H are together equivalent to STA222Y(G). [26L, 13T]
Exclusion: STA222Y(G), 242Y, 262Y, 352Y(G), PSY202H, ECO220Y, 227Y, SOC201Y, GGR212H, BIO361H
Prerequisite: STA202H

STA242Y Probability and Statistics: An Introduction
Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance. [52L, 26T]
Exclusion: STA212H, 222Y(G), 262Y, 352Y(G), PSY202H, ECO220Y, 227Y, SOC201Y, GGR212H, BIO361H
Prerequisite: MAT132Y/138Y

STA262Y Probability and Statistics: An Introduction
This course deals more rigorously with the topicsn included in STA242Y and is intended primarilyn for students in certain Specialist Programmes.n [52L 26T]
Exclusion: STA212H, 222Y(G), 242Y, 352Y(G),n PSY202H, ECO220Y, 227Y, SOC201Y, GGR212H, BIO361H
Corequisite: MAT228H, 233H/234Y/238Y

STA302H Regression Analysis
Least squares theory and fitting equations to data, analysis of residuals, transformations. Practical implementations stressed. [26L, 13T]
Prerequisite: STA242Y/262Y/212H and permission of instructor
Recommended Prerequisite: MAT228H

STA312H Methods of Statistical Inference
A survey course: the mathematical methods of statistical inference. [26L, 13T]
Exclusion: STA352Y(G)
Prerequisite: STA262Y/242Y and permission of instructor

STA347H Probability and Applications
Probability spaces and random variables, conditional probability, characteristic functions, limit laws. Application of common probability distributions. Introduction to stochastic processes. [26L, 13T]
Prerequisite: STA262Y/242Y and permission of instructor

STA402H Experimental Design
Statistical issues in the design of experiments and the collection ohdata. Analysis of variance, randomization, factorial designs, blocking, confounding, higher-way tables. [26L, 13T]
Prerequisite: STA302H

STA412H Estimation and Testing
Basic theory of estimation and hypothesis testing. [26L, 13T]
Prerequisite: STA312H

STA432H Advanced Statistics
Topics selected from: non-parametric techniques, multivariate analysis, decision-theoretic methods, Bayesian analysis, exploratory data-analysis, sequential procedures, reliability and life-testing. [26L, 13T]
Prerequisite: STA262Y/242Y and permission of instructor

Faculty Advisor: Professor R. C. Gunn
Survey Science is concerned with the measurement and representation of the geometric and physical features of our environment. It finds application in a variety of activities, which include mapping the earth's surface and charting its waters, establishing land boundaries and delineating property, searching for and inventorying natural resources, determining the size and shape of the earth, and locating transportation facilities and other engineered structures.
Survey Science has close contact with many other disciplines, particularly those which deal with the land, its use, subdivision, development and management. Although very much a quantitative science, built upon a strong base of mathematics, physics and statistics, it also includes a substantial treatment of the law as it relates to the land and professional conduct.
Students who intend to proceed to registration with the Association of Ontario Land Surveyors will satisfy the academic requirements of the Board of Examiners by completing the four-year Specialist Programme set forth in Section 5 of this Calendar, together with those other courses specified by the Board and which are given as elective courses within this Programme. For these requirements of the Board as set down from time to time, students should contact the Faculty Advisor.
For registration as a Canada Lands Surveyor or with other provincial associations, students should enquire directly to the secretary of the Board of Examiners of that jurisdiction.

All SUR courses, except SUR251H, 352H, 353H, 454H, 455H, 456H and 458H count as science credits.

Please see Section 5 for details of Programme Requirement.

SUR201H(I) Introduction to Surveying
Introduction to the procedures used to acquire field data with applications in various surveying activities. [26L, 39P]
Prerequisite: Grade 13 Mathematics (Algebra, R&F and C) and Physics.

SUR202H(I) Basic Surveying
Processing of survey data for presentation in various forms. Traverse calculations, coordinate geometry and circular curve geometry. [26L, 39P]
Prerequisite: SUR201H

SUR203H Land Surveying I
Celestial and terrestrial coordinate systems and their interrelationship. The determination of astronomic azimuth. The mathematical analysis of theodolite and level geometry.
[26L, 39P]
Exclusion: SUR230Y
Prerequisite: MAT132Y/138Y, PHY132Y/140Y, SUR202H

SUR204H Land Surveying II
Definition of elevation, levelling instrumentation and analysis of errors, precise levelling procedures. Introduction to electromagnetic distance measurement. Construction surveys dealing with alignment and the volume of materials. [26L, 39P]
Exclusion: SUR230Y
Prerequisite: SUR203H

SUR210H Introduction to Survey Analysis
Application of matrix methods and the computer to the analysis of survey problems. Coordinate transformations. Linearization of computational models. Linear equations and their methods of solution. Error analysis and error propagation.
[26L, 26T]
Prerequisite: MAT132Y/138Y, CSC108H
Corequisite: SUR201H

SUR241H Introduction to Land Planning
Fundamentals of obtaining and processing site information to provide the framework for land planning and site development design. Concept of official plans and zoning bylaws. [26L, 13T]
Prerequisite: EPS120H, 121H/GGR100Y

SUR251H Introduction to Survey Law
(Formerly 250H)
Legal history; legal systems and institutions; introduction to English law in general, with emphasis on land law; legal proceedings; the law of professional practice. [39L]
Prerequisite: INE203H/205H/ENG100Y

SUR311H Survey Analysis I
The statistical theory of measurement; precision and accuracy; variance-covariance propagation; error ellipses and ellipsoids and their statistical properties. Pre-analysis of measurements. The adjustment of observations; parametric, conditional and combined least squares procedures, with applications to surveying problems. [26L, 39P]
Prerequisite: SUR210H, 230Y/(203H and 204H), STA242Y

SUR312H Survey Analysis II
Survey control systems. Mathematical models for the parametric adjustment; formation and solution of the normal equations; and statistical testing. Pre-analysis procedures and survey network design. [26L, 39P]
Prerequisite: SUR311H
Recommended preparation: CSC108H

SUR321H Geodesy I
Figure of the earth, gravitational potential, gravity field, principles of satellite and inertial positioning systems, levelling and geopotential numbers, tidal effects. [26L, 26P]
Prerequisite: SUR210H, 230Y/(203H and 204H), CSC108H
Recommended preparation: MAT228H, 214H and 233H

SUR322H Geodesy II
Reduction of geodetic observations, horizontal, vertical and three-dimensional networks, map projections, gravimetry, accuracy assessment.
[26L, 26P]
Prerequisite: SUR321H

SUR325H Geodetic Astronomy I
The celestial sphere and its coordinate systems, variations in celestial coordinates, time systems, star catalogues and instrumentation. Determination of astronomic azimuth, latitude and longitude. [26L, 39P]
Prerequisite: SUR210H, 230Y/(203H and 204H)

SUR335H Photogrammetry I
Vertical photograph geometry and steropairs. Stereoscopy and parallax. Introduction to stereomodel orientation and stereoplotting instrumentation. Photogrammetric optics. The metric camera. Photographic processes. [26L, 39P]
Prerequisite: SUR210H, 230Y/(203H and 204H)

SUR336H Photogrammetry II
Stereomodel orientation and stereoplotting instrumentation. Camera calibration. Measurement and reduction of image coordinates. Interior and exterior orientation of the metric photograph; the projective model and collinearity equations. Analytical procedures. Applications of photogrammetry to map compilation. [26L, 39P]
Prerequisite: SUR311H, 335H

SUR337H Remote Sensing and Its Interpretation
Overview of remote sensing. System types discussed for various applications. Introduction to digital image analysis. Assignments on image interpretation. Environmental monitoring and land use. [26L, 26T]

SUR342H Land Planning: Regional Studies
(Formerly SUR340H)
Principles and practice of urban and rural planning and major development works. Land use and other studies needed for comprehensive planning and preparatory to site planning and development. [26L, 13P]

SUR346H Drainage Law and Engineering
Legal and engineering aspects of land drainage. Particular emphasis on the Drainage Act of Ontario. [39L]
Prerequisite: SUR230Y/(203H and 204H), 241H
Recommended preparation: SUR251H

SUR352H Land Law and Registration
(Formerly SUR350H)
Real property law; land survey systems; title and deed registration systems. [39L]
Prerequisite: SUR251H

SUR353H Boundary Law
(Formerly SUR351H)
Boundaries; land parcel descriptions; principles of evidence. [39L]
Prerequisite: SUR352H

SUR361H Mapping and Charting
Map and chart content. Projections, classification of mappings according to projection surfaces and projection centres. Map distortion. Reproduction of cartographic material. Cartographic techniques and drafting. Chart compilation. National mapping and charting systems. [26L, 26P]
Prerequisite: SUR230Y/(203H and 204H), CSC108H, MAT214H and 233H

SUR362H Data Management and Representation
Data recording. System architecture. Data manipulation, data structures and operators. Data representation. Data models. [26L, 26P]
Prerequisite: CSC108H, third year standing

SUR391H Special Topics in Survey Science
Studies of selected topics in Survey Science not covered in the regular courses.
Prerequisite: Permission of instructor

SUR392H Special Topics in Survey Science
Studies of selected topics in Survey Science not covered in the regular courses.
Prerequisite: Permission of instructor

SUR405H Field Survey Projects
An intensive session of 144 hours in the field covering various aspects of survey project design, data acquisition, data reduction and layout.
Prerequisite: SUR230Y/(203H and 204H), fourth year standing

SUR423H Applications of Geodetic Methodology I
Applications in surveying, geophysics and engineering. Criteria for selection of method, design and implementation of sample projects, assessment of results. [26L, 26P]
Prerequisite: SUR322H

SUR426H Geodetic Astronomy II
Application of the theory developed in SUR325H for a detailed study of several field methods for obtaining astronomic position. Actual field observations are performed, computed and analyzed. [26L, 39P]
Prerequisite: SUR325H

SUR431H Phototriangulation
Photogrammetric triangulation as a viable method for the extension of survey control. Triangulation by analog and analytical methods. Photo control and targetting. Independent model triangulation. Strip and block adjustment. Accuracy of photogrammetric triangulation. [26L, 26P]
Prerequisite: SUR311H, 336H

SUR443H Land Planning: Site Development
(Formerly SUR440H)
Development of land within the concept of the Official Plan. Subdivisions, condominiums and general site development and approval procedures. [26L, 13P]
Prerequisite: SUR241H

SUR454H Advanced Survey Law
(Formerly SUR450H)
Advanced studies in Canadian survey laws; legal provisions for surveys and records; land information systems and cadastre; projects, special research and discussion topics. [39L]
Prerequisite: SUR353H

SUR455H Survey Law Seminar
Research in some aspect of law related to surveying; a topic of individual selection for study under supervision, oral presentation before the class and submission of a professional paper. [39S]
Prerequisite: SUR251H and specific P.I.

SUR456H Law of the Sea and Offshore Boundaries
International law related to maritime jurisdictions: development of the Law of the Sea and the United Nations Conventions; Canadian Territorial Sea and Fishing Zones Act; Canada Lands Surveys Act. Technical aspects of the delimitation of maritime boundaries. [26L, 13T]
Prerequisite: SUR251H and specific P.I.

SUR458H Professional Affairs
Perspective on the professions: professional charter by statute; professional ethics, responsibility and liability. Fundamentals of business management; contract law; negligence law. Court procedure and expert witness. [39L]
Prerequisite: SUR251H and fourth year standing

SUR471H Hydrographic Surveying I
Underwater acoustics as related to hydrographic depth measurement. Horizontal positioning at sea. Tidal theory, water transport and the basics of physical oceanography. Chartwork and navigation. [26L, 39P]
Prerequisite: SUR312H, 322H, 325H, 336H
Corequisite: SUR361H

SUR472H Hydrographic Surveying II
Marine surveys including sounding techniques, positioning, depth measurement and sweeping. Geological surveys and measurement of oceanographic parameters. Data processing and nautical cartography. [26L, 39P]
Prerequisite: SUR471H

SUR495H Survey Project and Seminar
Participation in a comprehensive survey project under supervision of staff, including oral presentation of project material before the class and preparation of a final written report. [39P, 13S]
Prerequisite: SUR405H

Faculty Advisor: Professor R.L. Beck

WDW103Y Organizational Theory
An introduction to the development of managerial and organizational theory and practice. Materials will be drawn from a variety of disciplines, including Psychology and Sociology, dealing with bureaucracy and behaviour in large scale organizations. Not recommended for students in the Commerce and Finance programme. [52L]
Exclusion: COM441H, 442H

Certificate in Business
This certificate is designed to introduce students to the general theories and concepts of business organization and management and to develop analytic skills in a business environment.
It provides an ideal way for students who have not previously attempted post-secondary education to begin their university studies. Many of the courses in the programme are drawn from degree programmes in commerce, economics, political science, computer science and statistics. Students who wish to undertake degree studies upon completion of the certificate may request advanced standing in these courses.
The certificate is also useful for students who have completed a degree in a field other than Commerce or Business. The programme gives these students an opportunity to learn the basics of accounting, marketing, finance, computer science, personnel, organizational theory and public administration at the undergraduate level.

Certificate in Personnel and Industrial Relations
This certificate is designed for labour, management and government personnel who have an interest in Personnel and/or Industrial Relations. The programme was developed in response to a professional demand for individuals with post-secondary education in relevant and specific areas. It is structured to permit concentration in either Personnel or Industrial relations.
Several courses in this certificate may be appliled towards the designation C.P.M. (Certificate in Personnel Management) awarded by the Personnel Association of Ontario.

For further information about these programmes call the Registrar's Office (828-5344).

Index

A
Academic Counselling 19
Academic offences 36
Academic records 33
Access to student records 33
Academic status 31
Admission to the Faculty 13
Advisors, Faculty 19
Animal Behaviour programme 37
Anthropology
  courses 66
  faculty 12
  programmes 37
Appeals (petitions) 32,33
Applied Mathematics courses 69
Application dates 15
Approved Areas of Study 56
Art & Art History 45
Astronomy
  courses 69
  faculty 10
  programmes 38
Athletics and Recreation 20
Averaging and Status 31
Awards 18

B
B.A.,B.Com.,B.Sc.:
  degree requirements 26
Behaviour, Code of 36
Biochemistry programme 38
Biology
  courses 70
  programmes 38
Botany, faculty 10

C
Canadian Studies programme 57
Career Centre 20
Certificate programmes 158
Chemistry
  courses 77
  faculty 10
  programmes 39
Checking of marks 34
Cinema Studies programme 57
Classics
  courses 81
  faculty 9
Classical Civilization programme 40
College Council 1
Code of Behaviour 36
Commerce
  courses 82
  faculty 12
  programmes 41
Communications programme 41,52
Computer Science
  courses 86
  faculty 11
  programmes 41
Condition, admission on 14
Corequisite, definition 24
Courses
  choosing 22
  definition 24
  enrolment 28
  grading 30
  in other divisions 25
  key 65
  loads 23,25
  limitation of enrolment 2
  withdrawal from 28
Crime and Deviance programme 57

D
Dates, sessional 5,6
Dean's Honour List 27
Degree requirements 26
B.A. Degree requirements 26
B.Sc. Degree requirements 26
B.Com. Degree requirements 26
Degree, choice of 22
Disabled Persons, Services to 20
Discipline 36
Distinction 27
Distribution requirement 24
Drama
  courses 88
  programme 42

E
Earth and Planetary Science
  courses 97
  faculty 11
  programmes 46
Earth Resources programmes 57
Economics
  courses 89
  faculty 12
  programmes 42
English
  courses 93
  faculty 9
  programmes 44
English Proficiency Test 28
Environmental Management programme 46
Environmental Science programme 57
Enrolment 28
Examinations 32
Exceptionality in Human Learning
  programme 58
Exclusion, definition 24

F
Faculty, Erindale College 9-12
Faculty Scholar 27
Fees 17
Financial Assistance 18
Fine Art
courses 100
faculty 9
programmes 44
French
courses 105
faculty 9
programmes 45

G
Geography
courses 106
faculty 12
programmes 46
Geology programmes 47
German
courses 113
faculty 10
programmes 48
Grades 29
Grade Point Average 31
Grading regulations 30
Greek, courses 116
Greek and Roman History programme 49

H
Health Service 20
High Distinction 27
History courses 116
faculty 10
programmes 49
Humanities, concentrated programme 62

I
Individual Approved Areas of Study 61
Instruction, types and duration 65
International Student Centre 21
Interdisciplinary Studies courses 122
Italian
courses 123
faculty 10
programmes 50

J
Joint Courses 126

L
Latin American Studies programme 59
Latin, courses 127
Letters of Permission 25
Librarians 12
Library 20
Linguistics
courses 127
faculty 10
Logic 59

M
Marks, checking of 34
Material Culture programme 59
Mathematics
courses 128
faculty 11
programmes 51
Modern Languages and Literatures
programmes 51

N
Native Studies Programme 59

O
Officers
of College 8
of Faculty 8
of University 7
Ombudsman 35
Outstanding Financial Obligations 17

P
Part-time students 25
Payment of fees 17
Petitions 32
Philosophy
courses 131
faculty 10
programmes 52
Physics
courses 135
faculty 11
programmes 52
Political Science
courses 137
faculty 12
programmes 53
Population and Society programme 60
Prerequisites
definition 24
secondary school 15
Probation, academic 31
Programmes of Study 37-64
Psychology
courses 140
faculty 10
programmes 53
Publications 2

R
Recommended preparation (definition) 24
Records, student 33
Refused further registration 31
Registration 28
Re-registration in Faculty 25
Religious Studies
courses 144
faculty 10
programmes 54
Renaissance Studies programme 60

Residence accommodation 17,21
Responsibilities of students 2,23
Restricted Course load 25
Rules for the conduct of examinations 32

S
Sanctions 36
Scholarships 18
Secondary School prerequisites 15
Senior citizens, admission 14
Services to Disabled Persons 20
Sessional dates 5,6
Social Sciences, concentrated programme 62
Sociology
  courses 146
  faculty 12
  programmes 55
Spanish courses 151
  faculty 10
  programmes 55
Special consideration 33
Special Erindale
  programmes 62
Special students 22
Standing in courses 29
Standing, deferred 29
Statistics
  courses 153
  faculty 11
  programmes 55
Status, academic 31
Student organizations 19
Student card 34
Student records 33
Study Elsewhere programme 63
Survey Science
  courses 154
  faculty 11
  programmes 56,62
Suspension 31

T
Teaching Learning Centre 19
Term Work 29
Transcript of record 35
Transfers, between Colleges 29
Transfer credit 25

U
Urban Studies programme 60

W
Withdrawal 28
Woodsworth College Courses 157
Writing Laboratory 19

Z
Zoology faculty 10

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