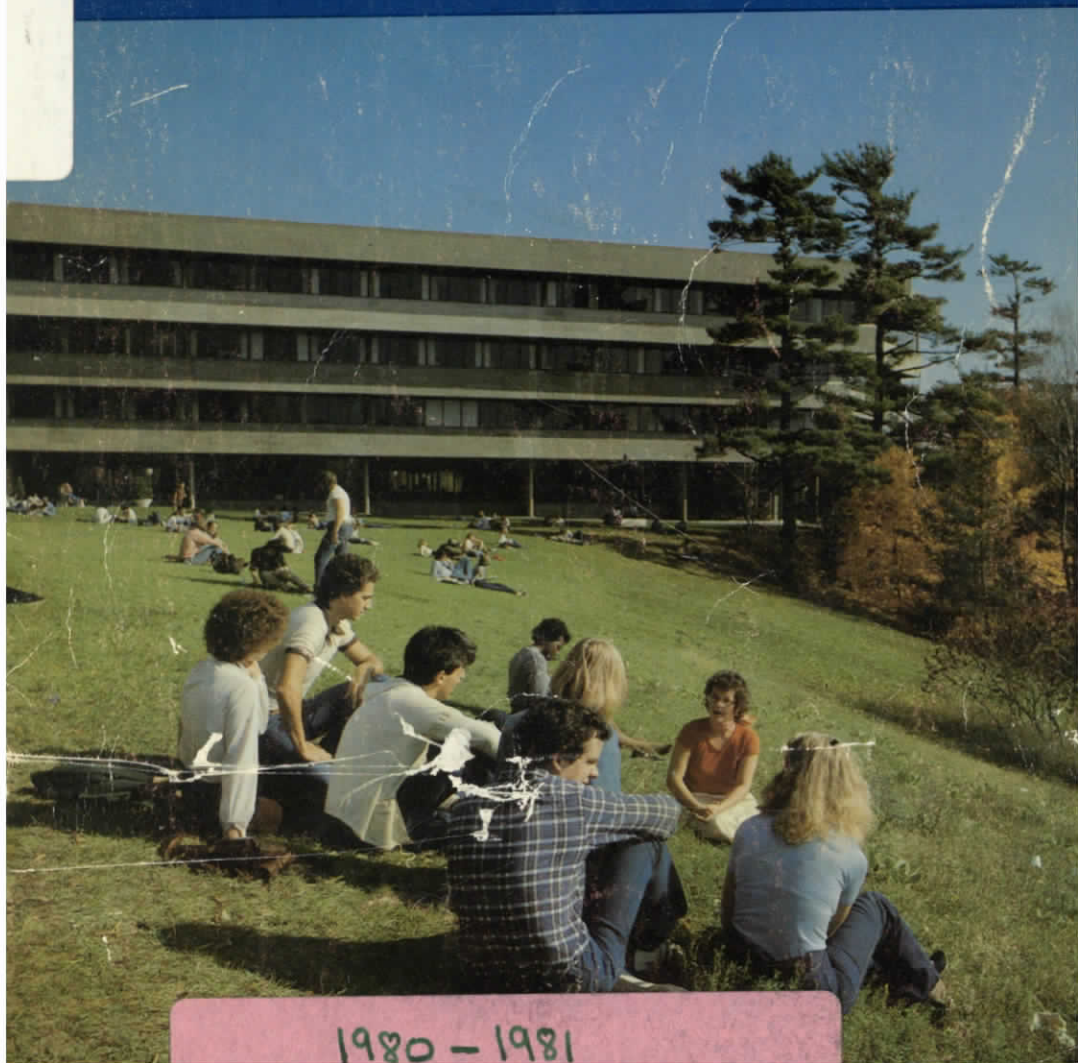


University of Toronto

ARBOROUGH COLLEGE
Calendar 1980-81

RETURN TO: S415A
Convocation and
Student Records

UTSC



1980 - 1981

University of Toronto

SCARBOROUGH COLLEGE Calendar 1980-81

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

STEPHEN LEACOCK



TABLE OF CONTENTS – See page 246

IMPORTANT NOTES

(1) Student Responsibility

Students are responsible for making themselves familiar with the information in this Calendar, particularly the section of the Calendar dealing with Academic Regulations. Counsellors in the Student Services Office would be pleased to assist students in interpreting these regulations, in explaining their application in particular cases, and (where appropriate) in assisting students who encounter special difficulties to request special consideration with respect to the regulations.

(2) Curriculum Changes

The courses in this Calendar and their descriptions are accurate at the time of printing. However, the College reserves the right to withdraw courses or to amend their descriptions; in such cases the College will make every effort to provide equivalent alternative instruction, but the provision of such instruction cannot be guaranteed.

(3) Enrolment Limits

Scarborough College reserves the right to limit the number of registrants in any course in circumstances where the number of qualified applicants for a course exceeds the teaching or other resources available.

(4) Course Selection and Registration

Key to the Course Descriptions

Students are urged to read carefully pages 37 to 38 of this Calendar before reading the course descriptions. These pages contain important information about: the designation and numbering of courses; prerequisites, corequisites and exclusions; and about supervised reading, supervised research and independent study courses.

Prerequisites and Corequisites

Prerequisites and corequisites may be waived only with the specific permission of the instructor. Students who register in courses without their prerequisites or corequisites, and without the permission of the instructor, may be withdrawn from these courses after the beginning of classes.

Prerequisite: Permission of Instructor

Where the prerequisite of a course is permission of its instructor, students who register in the course without permission may be withdrawn after the beginning of classes. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes in April of the preceding year.

Supervised Reading or Research Courses

Registration in supervised research or reading courses, thesis courses, etc., requires the written consent of the instructor, provided on the form printed on page 241 of this Calendar. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes by April of the preceding year.

St. George Campus or Erindale Campus Courses

Students who propose to register in courses on the St. George or Erindale campus should consult page 24 of this Calendar.

(5) Registration Information

Full registration information and the Schedule of Fees will be provided by the Registrar's Office, as follows:

1980 Summer Session

Students who were registered at the College in the 1979 Summer Session or the 1979-80 Winter Session should pick up registration information from the Registrar's Office in March or April. New students and students reactivating their enrolment after a year away will be mailed their registration material.

1980-81 Winter Session

Students who were registered at the College in the 1979 Summer Session or the 1979-80 Winter Session will receive registration material in the mail in June 1980. New students and students reactivating their enrolment after a year away will receive their registration information with their letter of admission or with the letter verifying reactivation of their enrolment.

ACADEMIC CALENDAR

Summer Session 1980

	1 April	Last day for new students to apply for admission to the University for the Summer Session wishing to enrol in 'Y', 'A', 'F' or 'H' courses.
	15 May	Last day for new students to apply for admission to the University for the 1980 Summer Session wishing to enrol in 'B' or 'S' courses. Applications will be accepted after the above dates to the maximum extent possible. However, applications received by the above dates will receive priority consideration.
Friday	9 May	Last day to register for 'Y', 'A', 'F' and 'H' courses.
Monday	12 May	Classes for 'Y', 'A', 'F' and 'H' courses begin.
Friday	16 May	Last day to enrol in 'Y', 'A', 'F' or 'H' courses.
Monday	19 May	Victoria Day - University closed.
Friday	6 June	Last day to withdraw from 'A' and 'F' courses.
Friday	20 June	Last day of classes in 'A' and 'F' courses on St. George and Erindale Campus.
Monday	23 June -	
Thursday	26 June	Examination week in 'A' and 'F' courses on St. George and Erindale Campus.
Thursday	26 June	Last day of classes in 'A' and 'F' courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.
Friday	27 June	Last day to register for 'B' and 'S' courses.
Tuesday	1 July	Dominion Day holiday - University closed.
Wednesday	2 July	Classes for 'B' and 'S' courses begin.
Tuesday	8 July	Last day to add 'B' or 'S' courses.
Friday	18 July	Last day to withdraw from 'Y' or 'H' courses.
Friday	25 July	Last day to withdraw from 'B' or 'S' courses.
Monday	4 August	Civic holiday - University closed.
Tuesday	12 August	Last day of classes for 'Y', 'B', 'H' and 'S' courses on St. George and Erindale campus.
Wednesday	13 August -	
Friday	15 August	Examination week for 'Y', 'B', 'H' and 'S' courses on St. George and Erindale Campus.
Friday	15 August	Last day of classes in Scarborough Campus courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.

Winter Session 1980-81

Monday	30 June	Last day for new students to apply for admission to the University for the Winter Session 1980-81 wishing to enrol in 'Y', 'A', 'F' and 'H' courses. Applications will be accepted after this date to the maximum extent possible. However, applications received by this date will receive priority consideration.
Monday	1 September	Labour Day - University closed.
Tuesday	2 September -	
Wednesday	3 September	Registration for students who did not complete all registration procedures previously.
Monday	8 September	Classes for the 1980-81 Academic Year begin. 'Y', 'H', 'F' and 'A' courses begin.
Friday	19 September	Last day to enrol in 'Y', 'H', 'F' or 'A' courses.
		Last day this term to transfer into a new Specialist, Major or College Programme.
Monday	13 October	Thanksgiving Day - University closed.
Friday	31 October	Last day to withdraw from first term 'F' or 'A' courses.
Monday	1 December	Last day for receipt of application for University of Toronto In-Course Bursaries.

Friday	5 December	Last day of classes in the first term.
Monday	8 December	Last day for submission of term assignments in 'F' and 'A' courses.
Monday	8 December	
Friday	19 December	Term test and final examination period.

1981

Monday	5 January	Classes for the second term begin. Second term 'B' and 'S' courses begin. Last day to register for 'S' and 'B' courses.
Friday	16 January	Last day to enrol in 'S' or 'B' courses. Last day this term to transfer into a new Specialist, Major or College Programme.
Friday	13 February	Last day to withdraw from 'Y' and 'H' courses.
Monday	16 February	
Friday	20 February	Reading Week - all classes cancelled.
Friday	27 February	Last day to withdraw from 'S' or 'B' courses.
Friday	10 April	Last day of classes; no tests or examinations may be held until the beginning of the examination period.
Friday	17 April	Good Friday - University closed.
Tuesday	21 April	Last day for submission of term assignments for 'Y', 'H', 'S', or 'B' courses.
Tuesday	21 April	Annual examinations begin.
Monday	11 May	Annual examinations end.
Monday	8 June	Spring Convocation begins.

OFFICERS OF THE UNIVERSITY 1980-1981

CHANCELLOR	A.B.B. Moore, B.A., B.D., LL.D., D.D., O.C.
CHAIRMAN OF THE GOVERNING COUNCIL	M. Paikin, B.A.
PRESIDENT	J.M. Ham, B.A.Sc., S.M., Sc.D.
SPECIAL ASSISTANT TO THE PRESIDENT	J.H. Sword, B.A., M.A., LL.D.
VICE-PRESIDENT AND PROVOST	D.W. Strangway, M.A., Ph.D., F.R.S.C.
VICE-PROVOSTS	W. Saywell, B.A., M.A., Ph.D. E. Kingstone, M.D., C.M. R.W. Missen, M.Sc., Ph.D., F.C.I.C.
VICE-PRESIDENT AND REGISTRAR	H.C. Eastman, B.A., A.M., Ph.D.
VICE-PRESIDENT, BUSINESS AFFAIRS	A.G. Rankin, B.Com., F.C.A.
VICE-PRESIDENT, CAMPUS & COMMUNITY AFFAIRS	W.E. Alexander, B.S.P., M.Sc., Ph.D.
UNIVERSITY OMBUDSMAN	E.A. McKee, M.A.
CHIEF LIBRARIAN	R. Blackburn, M.A., B.L.S., M.S., LL.D.
SECRETARY OF THE GOVERNING COUNCIL	D.S. Claringbold
DIRECTOR OF ADMISSIONS	W. Kent, M.A.
DIRECTOR OF STUDENT AWARDS	P.S. Phillips, B.A., C.A.
DIRECTOR OF STUDENT RECORD SERVICES	J.C. Wilson, B.A.Sc., M.Sc., Ph.D.
WARDEN OF HART HOUSE	R.M.H. Alway, B.A., M.A., Phil.M.
CO-ORDINATOR CAMPUS SERVICES	H.L. Reimer, B.A., B.Paed.

Administration and Faculty of Scarborough College

Principal	J.E. Foley, B.A., Ph.D.
Acting Principal	S.J. Colman, M.A.
Assistant to the Principal	C. Caton, B.A., M.Sc.
Associate Dean	T.T. Tidwell, B.S., Ph.D.
Dean of Students in Residence	
Chairman, Division of Humanities	P.W. Gooch, M.A., Ph.D.
Associate Chairman	J.N. Grant, M.A., Ph.D.
Administrative Assistant	A.P. Western
Chairman, Division of Life Science	G.R. Williams, B.Sc., Ph.D., D.Sc.
Chairman, Division of Physical Sciences	J.E. Dove, B.Sc., M.A., Ph.D.
Associate Chairman	J.S. Halperin M.Sc., Ph.D.
Administrative Assistant	J. Norman
Chairman, Division of Social Science	R.S. Blair, M.A., M.A.
Administrative Assistant	M. Kimmerly
Registrar	G.E.L. Curri
Associate Registrar	N.H. Dobbs, B.A.
Assistant Registrar	M. Gerrard
Administrative Assistant	L. Pearson
Admissions/Liaison Counsellor	M.V. Choy, B.A., M.A.
Manager of Business Services	J.F. Brook
Administrative Assistant, Personnel	J.P. Hope
Administrative Assistant, Accounts	G. Tapper
Administrative Assistant, Residences	N. Mawson
Librarian	J.L. Ball, M.A., M.L.S., Dip.Lib, A.L.A.
Coordinator, Collection Dept.	M. Wiederkehr, M.L.S.
Coordinator, Public Services	R. Farrow, B.A., M.L.S.
Coordinator, Special Collections	L. Le, B.A., M.L.N.
Coordinator, Technical Services	P. Yamamoto, B.A., M.S. in L.S.
Head, Scarborough-Erindale Technical Services	A. Gregorovich, B.A., B.L.S.
Coordinator, Special Programmes	A.J.G. Patenall, M.A., Ph.D.
Director of Writing Laboratory	B. Corben, M.A.
Director of the English Proficiency Programme	A. Fisher, B.A., M.A., Ph.D.
Director of Athletics	T. Pallandi, B.Ph.E., B.A., M.S.
Assistant Director of Athletics	J. Laaniste, B.Sc., B.Ed.
Assistant Director of Athletics	M.A. Pilskalnietis, B.Ph.E.
Physician	T.W. Fox, B.A., M.D., F.R.C.P.(C)
Physician	A.M. Breuls, M.D.
Psychiatrist	Taylor Statten, M.D., F.R.C.P.(C)
Manager of Physical Services	G.A. FitzGerald

Division of Humanities

Classics

A. Boddington, B.A. (Oxon), *Associate Professor*
J.H. Corbett, M.A., Ph.D. (Toronto), *Associate Professor*
J.N. Grant, M.A. (Edinburgh), Ph.D. (St. Andrews), *Associate Professor*
M.E. Irwin, M.A., Ph.D. (Toronto), *Associate Professor*
I.R. McDonald, B.A. (Alberta), Ph.D. (N. Carolina), *Associate Professor*
J.R. Warden, M.A. (Cambridge), *Associate Professor*

Drama

M.Q. Schonberg, M.A., Ph.D. (Toronto), *Assistant Professor*
L.L. Browne, M.A., Phil.M. (Toronto), *Lecturer P-T*

English

W.J. Howard, M.A., S.T.B. (Toronto), Ph.D. (Leeds), *Professor*
J.M.R. Margeson, M.A., Ph.D. (Toronto), *Professor*
R.M. Brown, M.A., Ph.D. (New York), *Associate Professor*
H. Jackson, M.A., Ph.D. (Toronto), *Associate Professor*
J. Kay, M.A. (Glasgow), M.A., Ph.D. (Pennsylvania), *Associate Professor*
S.M. Namjoshi, M.A. (Poona), M.S. (Missouri), Ph.D. (McGill), *Associate Professor*
A.J.G. Patenall, M.A. (McGill), Ph.D. (Birmingham), *Associate Professor*
M.S. Tait, M.A., Ph.D. (Toronto), *Associate Professor*
A.C. Thomas, M.A., Ph.D. (Toronto), *Associate Professor*
E.P. Vicari, M.A., Ph.D. (Toronto), *Associate Professor*
M.C. Creelman, M.A., Ph.D. (Toronto), *Assistant Professor*
K. Theil, M.A., Ph.D. (Yale), *Assistant Professor*

Fine Art

G. Scavizzi, M.A., Ph.D. (Turin), *Professor P-T*
M. Gervers, M.A. (Poitiers), Ph.D. (Toronto), *Associate Professor*
R. Siebelhoff, M.A., Ph.D. (Toronto), *Associate Professor*
L. Carney, M.A. (New York), *Assistant Professor*
M.C. Shaw, M.A., Ph.D. (Bryn Mawr College), *Assistant Professor P-T*
D. Holman, B.F.A. (Kansas City Art Inst.), *Senior Tutor*
J. Hoogstraten, B.F.A. (Manitoba), *Tutor*

French

G.F.R. Trembley, L.ès L., (Montpellier), Ph.D. (Yale), *Professor*
W.J. Bancroft, M.A. (Manitoba), Ph.D. (Harvard), *Associate Professor*
J.A. Curtis, M.A., M.Phil. (Toronto), *Associate Professor*
L.E. Doucette, B.A. (London), Ph.D. (Brown), *Associate Professor*
C.B. Jennings, L.ès L. (Paris), Ph.D. (Wayne State), *Associate Professor*
W.J. Kirkness, M.A. (Auckland), Ph.D. (de Besançon), *Associate Professor*
L.B. Mignault, B.A. (Toledo), Ph.D. (Colorado), *Associate Professor*
S. Mittler, M.A. (Toronto), Ph.D. (Strasburg), *Associate Professor*
P.C. Moes, M.A., B.L.S., Ph.D. (Toronto), *Associate Professor*
C. Evans, M.A. (Rochester), Ph.D. (Toronto), *Tutor*
F. Mugnier, M.A. (Lyon), *Tutor*

German

H. Ohlendorf, A.M., Ph.D. (Stanford), *Associate Professor*
H. Wittmann, M.A., (Göttingen), Ph.D. (Mass.), *Associate Professor*
U. Sherman, M.A., Ph.D. (Penn.), *Tutor*

History

J.S. Moir, M.A., Ph.D. (Toronto), D.D. (Presb. College, Montreal), *Professor*
W.M. Dick, M.A. (Oregon), Ph.D. (Toronto), *Associate Professor*
E.W. Dowler, M.A. (Harvard), Ph.D. (London School of Economics), *Associate Professor*
M. Eksteins, B.A. (Toronto), B.Phil., D.Phil. (Oxford), *Associate Professor*
M. Gervers, M.A. (Poitiers), Ph.D. (Toronto), *Associate Professor*
J.P.B. Kenyon, M.A., Ph.D. (Toronto), *Associate Professor*
J.L. Pearl, M.A., Ph.D. (Northwestern), *Associate Professor*
I.R. Robertson, M.A. (McGill), Ph.D. (Toronto), *Associate Professor*
A.N. Sheps, M.A., Ph.D. (Toronto), *Associate Professor*
J.L. Abrey, M.A. (McMaster), M.Phil., Ph.D. (Yale), *Assistant Professor*
W. McKay, L.Th. (Manitoba), M.A., Ph.D. (Toronto), *Assistant Professor P-T*

Humanities

G.P. Richardson, B.Arch., B.D. (Toronto), Ph.D. (Cambridge), *Associate Professor*

Italian

A. Franceschetti, Dott. in Lett. (Padua), Ph.D. (Columbia), *Professor*
S. Mittler, M.A. (Toronto), Ph.D. (Strasburg), *Associate Professor*
D. McAuliffe, A.B. (St. Peter's, Milan), Ph.D. (New York), *Assistant Professor*
G. Katz, M.A., Ph.D. (Toronto), *Tutor*

Linguistics

R.I. Binnick, M.A., Ph.D. (Chicago), *Professor*
P.H. Salus, M.A., Ph.D. (N.Y.), *Professor*
D.M. James, M.A. (Cornell), Ph.D. (Michigan), *Associate Professor*
S. Whalen, M.A., Ph.D. (Toronto), *Associate Professor*
J.D. Woods, B.A. (Bowdoin Col.), Ph.D. (Mass.), *Associate Professor*

Music

T.J. McGee, M.A. (Connecticut), Ph.D. (Yale), *Associate Professor*
J. Mayo, G.T.C.L. (Trin. Coll. London) M.A., Ph.D. (Toronto), *Assistant Professor P-T*
C.K. Walter, B.Ed., Mus.M. (Toronto), *Instructor P-T*

Philosophy

J.H. Sobel, M.A. (Iowa State), Ph.D. (Michigan), *Professor*
A. Gombay, M.A. (McGill), B.Phil. (Oxon), *Associate Professor*
P.W. Gooch, M.A., Ph.D. (Toronto), *Associate Professor*
W.C. Graham, M.A., Ph.D. (Toronto), *Associate Professor*
J. Hartley, B.Ph., B.A. (Ottawa), M.A., Ph.D. (Toronto), *Associate Professor*
D.L. Mosher, B.A., Ph.D. (Texas), *Associate Professor*
R.P. Thompson, M.A., Ph.D. (Toronto), *Assistant Professor*

Russian

C.V. Ponomareff, M.A., Ph.D. (Toronto), *Associate Professor*
S. Whalen, M.A., Ph.D. (Toronto), *Associate Professor*
N. Kosachov, M.A., Ph.D. (Ottawa), *Associate Professor P-T*

Spanish

P.R. León, M.A., Ph.D. (Cornell), *Professor*
R.J. Barta, M.A., Ph.D. (Minn.), *Associate Professor*
J.I. Chicoy-Dabán, M.A. (Marquette), Ph.D. (Toronto), *Associate Professor*
R. Skyrme, M.A., (Michigan), M.Litt. (Bristol), Ph.D. (Toronto), *Associate Professor*
K. Godde-Nijhowne, B.A. (McGill), M.A. (N.Y.), Ph.D. (Toronto), *Tutor*

Division of Life Sciences

Biology

- F.A. Urquhart, B.A., M.A., Ph.D. (Toronto), *Professor Emeritus*
 C. Nalewajko (Sparling), B.Sc., Ph.D. (Univ. College London), *Professor*
 J.C. Ritchie, B.Sc. (Aberdeen), Ph.D. (Sheffield), D.Sc. (Aberdeen), *Professor*
 A.H. Weatherley, B.Sc. (Sydney), M.Sc. (Tas.), Ph.D. (Glas.), *Professor*
 G.R. Williams, B.Sc., Ph.D., D.Sc. (Liverpool), F.R.S.C., *Professor*
 I.R. Brown, B.Sc. (Carleton), Ph.D. (Texas), *Associate Professor*
 I.M. Campbell, B.Sc. (Alberta), M.A., Ph.D. (Toronto), *Associate Professor*
 R.E. Dengler, B.Sc., Ph.D. (UCD), *Associate Professor*
 M.F. Filosa, B.S. (St. Peter's), M.S. (Fordham), Ph.D. (Princeton), *Associate Professor*
 C.K. Govind, B.Sc. (Rhodes), M.Sc. (Natal), Ph.D. (Manitoba), *Associate Professor*
 J.W. Gurd, B.A. (Mnt. All), Ph.D. (McGill), *Associate Professor*
 G.F. Israelstam, B.Sc. (Witwatersrand), Ph.D. (Univ. College London), *Associate Professor*
 J.H. Youson, B.A. (Victoria), M.Sc. (McGill), Ph.D. (Western), *Associate Professor*
 R. Boonstra, B.Sc. (Calgary), Ph.D. (B.C.), *Assistant Professor*
 J. Silver, B.Sc., Ph.D. (CUNY), *Assistant Professor*
 D.D. Williams, B.Sc. (Univ. Coll. N. Wales), Dip.Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), *Assistant Professor*
 C. Pickett, B.Sc., M.A. (Toronto), *Senior Tutor*
 R. Webb, B.Sc., M.Sc. (York), *Senior Tutor*
 C. Ng, B.Sc., M.Sc. (Hong Kong), *Instructor*

Psychology

- G.B. Biederman, B.Sc. (CUNY), Ph.D. (NYU), *Professor*
 J.E. Foley, B.A., Ph.D. (Syd.), *Professor*
 B. Forrin, B.A. (Toronto), M.A., Ph.D. (Michigan), *Professor*
 M.C. Smith, B.A. (Toronto), Ph.D. (MIT), *Professor*
 G.C. Cupchik, B.A. (Mich.), M.A., Ph.D. (Wisc.), *Associate Professor*
 K.K. Dion, B.A. (Wellesley), Ph.D. (Minn.), *Associate Professor*
 J.M. Kennedy, B.Sc., M.Sc. (Belf.), Ph.D. (Cornell), *Associate Professor*
 A. Kukla, A.B., M.A., Ph.D. (UCLA), *Associate Professor*
 N.W. Milgram, B.A. (U.Cal.), M.A., Ph.D. (McGill), *Associate Professor*
 J.D. Pauker, B.A. (CUNY), M.S. (Purdue), Ph.D. (Wash.U.), *Associate Professor P-T*
 J. Bassili, B.A. (McGill), Ph.D. (Cornell), *Assistant Professor*
 C. MacLeod, B.A. (McGill), Ph.D. (Washington), *Assistant Professor*
 T.L. Petit, B.S., M.A. (Louisiana), Ph.D. (Florida), *Assistant Professor*
 M.C. Tierney, B.A. (Toronto), M.A., Ph.D. (Windsor), *Assistant Professor*
 G.A.J. Heighington, B.A. (Toronto), *Senior Tutor*
 R. Goldenberg, B.A. (Toronto), *Tutor*

Division of Physical Sciences

Astronomy

- P.P. Kronberg, B.Sc., M.Sc. (Queens), Ph.D. (Manchester), *Professor*
 R.C. Roeder, B.Sc., M.Sc. (McMaster), Ph.D. (Illinois), *Professor*
 P.G. Martin, B.Sc., M.Sc. (Toronto), Ph.D. (Cambridge), *Associate Professor*

Chemistry

- J.E. Dove, B.Sc., M.A., D. Phil. (Oxford), *Professor*
 A.J. Kresge, B.A. (Cornell), Ph.D. (Illinois), *Professor*
 T.T. Tidwell, B.S. (Georgia Inst. Tech.), Ph.D. (Harvard), *Professor*
 G.A. Kenney-Wallace, A.R.I.C., M.Sc., Ph.D. (British Columbia), *Associate Professor*
 A. Walker, B.Sc., Ph.D. (Nottingham), *Associate Professor*
 P.W. Brumer, B.S. (Brooklyn), Ph.D. (Harvard), *Assistant Professor*
 R.T. Hemmings, B.Sc. (Univ. Southampton), Ph.D. (Windsor), *Assistant Professor*
 R.A. McClelland, B.Sc., Ph.D. (Toronto), *Assistant Professor*
 J. Potter, B.Sc. (Birmingham), M.Sc. (Windsor), *Senior Tutor*
 K. Henderson, B.Sc. (Toronto), *Senior Tutor*
 A. Verner, M.Sc. (Toronto), *Tutor*

Computer Science

- W.H. Enright, B.Sc. (British Columbia), M.Sc., Ph.D. (Toronto), *Associate Professor*
 C.R. Perrault, B.Sc. (McGill), M.A., Ph.D. (Michigan), *Associate Professor*
 M.M. Klawe, B.Sc., Ph.D. (Alberta), *Assistant Professor*
 M. Hall, B.Sc. (Acadia), *Senior Tutor*

Geology

- J.A. Westgate, B.Sc. (Reading), Ph.D. (Alberta), *Professor*
 W. Tovell, B.A., M.Sc., Ph.D. (Toronto), *Assistant Professor*

Mathematics

- F.V. Atkinson, M.A., D. Phil. (Oxford), F.R.S.C.(T), *Professor*
 E.W. Ellers, Ph.D. (Hamburg), *Professor*
 J.S. Halperin, M.Sc. (Toronto), Ph.D. (Cornell), *Professor*
 I. Kupka, Ph.D. (Rio de Janeiro), *Professor*
 J. McCool, B.Sc., Ph.D. (Glasgow), *Professor*
 T. Callahan, M.Sc., Ph.D. (Toronto), *Associate Professor*
 P. Keast, M.Sc. (Edinburgh), Ph.D. (St. Andrew's), *Associate Professor*
 P.J. Leah, Ph.D. (Toronto), *Associate Professor*
 E. Mendelsohn, B.Sc., M.Sc. (Manitoba), Ph.D. (McGill), *Associate Professor*
 R.W. Sharpe, M.Sc. (Toronto), Ph.D. (Yale), *Associate Professor*
 J.B. Wilker, B.Sc. (Toronto), M.A. (British Columbia), Ph.D. (Toronto), *Associate Professor*
 M.J. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D. (Toronto), *Assistant Professor*
 D. Hall, B.Sc., (Toronto), *Senior Tutor*
 S. Chawla, B.A. (Delhi), M.Sc., (McMaster), *Instructor*
 E. Moore, M.A. (Memorial), *Instructor*
 E. Peek, M.A., Ph.D. (Western Ontario), *Instructor*
 D. Shum, Ph.D. (Carleton), *Instructor*

Physics

- H.C. Corben, M.A., M.Sc. (Melbourne), Ph.D. (Cantab.), *Professor*
 A. Griffin, M.Sc. (British Columbia), Ph.D. (Cornell), *Professor*
 M.J.G. Lee, M.A., Ph.D. (Cantab.), *Professor*
 P.J. O'Donnell, B.Sc., Ph.D. (Glasgow), *Professor*
 M.B. Walker, B. Eng. (McGill), D. Phil. (Oxford), *Professor*
 A.E. Jacobs, B.A.Sc. (Toronto), M.Sc. (Waterloo), Ph.D. (Illinois), *Associate Professor*
 J.D. King, B.A. (Toronto), Ph.D. (Saskatchewan), *Associate Professor*
 J.M. Perz, B.A.Sc., M.A.Sc. (Toronto), Ph.D. (Cantab.), *Associate Professor*
 S. Quick, M.Sc., Ph.D. (Windsor), *Tutor*

Division of Social Sciences

Anthropology

- T.F.S. McFeat, B.A. (McGill), M.A., Ph.D. (Harvard), *Professor*
 F. D. Burton, B.Sc., M.A. (NYU), Ph.D. (Cuny), *Associate Professor*
 C.E. Hopen, M.A. (Columbia), *Associate Professor*
 H.B. Schroeder, B.A. (Penn. State), Ph.D. (Columbia), *Associate Professor*
 R.W. Shirley, M.A. (Stanford), Ph.D. (Columbia), *Associate Professor*
 M. Lambek, B.A. (McGill), M.A., Ph.D. (Michigan), *Assistant Professor*
 M. Latta, B.A. (Kansas), M.A., Ph.D. (Toronto), *Assistant Professor*
 L. Sawchuk, B.A., M.A. (Manitoba), Ph.D. (Toronto), *Assistant Professor*
 S. Hilton, B.A. (British Columbia), *Lecturer*

Commerce

- H. Babiak, B.Sc. (Econ.) (London), M.B.A. (Western), C.A., *Associate Professor*
 A. Stawinoga, B.A. (Toronto), M.B.A. (York, Canada), *Assistant Professor*

Economics

- V.W. Bladen, O.C., M.A. (Oxon.), LL.D., F.R.S.C., *Professor Emeritus and Honorary Lecturer*
 A. Berry, B.A. (Western), Ph.D. (Princeton), *Professor*

D.E. Moggridge, B.A. (Toronto), M.A., Ph.D. (Cambridge), *Professor*
 M. Bucovetsky, B.A., M.A., Ph.D. (Toronto), *Associate Professor*
 D.E. Campbell, B.A. (Queen's), Ph.D. (Princeton), *Associate Professor*
 J. Cohen, B.A. (Columbia), M.A., Ph.D. (California), *Associate Professor*
 M. Gunderson, B.A. (Queen's), M.A., Ph.D. (Wisconsin), *Associate Professor*
 S. K. Howson, B.A., M.Sc. (London), M.A., Ph.D. (Cambridge), *Associate Professor*
 M. Krashinsky, S.B. (Econ.), (M.I.T.), M. Phil., Ph.D. (Yale), *Associate Professor*
 R.B. Westin, B.A. (Mich. State), Ph.D. (Minnesota), *Associate Professor*
 I.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), *Assistant Professor*
 R.S. Saunders, B.A. (Toronto), M.A., Ph.D. (Harvard), *Assistant Professor*
 P.A. Simmie, B.A. (Manitoba), M.M., M.S. (Northwestern), *Assistant Professor*
 R. Winter, B.Sc. (British Columbia), M.A. (California), *Assistant Professor*
 N. Gallini, B.A., M.A. (Missouri), *Lecturer*
 W. Milne, B.A. (Victoria, B.C.), M.A. (Toronto), Ph.D. (Penn.), *Lecturer*

Geography

R.B. Bryan, B.A. (Dublin), Ph.D. (Sheffield), *Professor*
 B. Greenwood, B.Sc., Ph.D. (Bristol), *Professor*
 M.F. Bunce, B.A., Ph.D. (Sheffield), *Associate Professor*
 E. Relph, B.A., M. Phil. (London), Ph.D. (Toronto), *Associate Professor*
 G. Szeicz, Ph.D. (Reading), *Associate Professor*
 W. Cowie, B.A. (Carleton), *Assistant Professor*
 J.R. Miron, B.A. (Queen's), M.A. (Penn.), M.Sc., Ph.D. (Toronto), *Assistant Professor*
 P. Moore, B.A., M.A. (Canterbury), Ph.D. (Toronto), *Assistant Professor*
 A.G. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), *Assistant Professor*

Political Science

S.J. Colman, M.A. (Oxon.), *Professor*
 R. Manzer, B.Ed. (New Brun.), M.A. (Oxon.), Ph.D. (Harvard), *Professor*
 E.G. Andrew, B.A. (British Columbia), Ph.D. (London), *Associate Professor*
 R.S. Blair, M.A. (Glasgow), M.A. (Toronto), *Associate Professor*
 T. Colton, B.A., M.A. (Toronto), Ph.D. (Harvard), *Associate Professor*
 J. Esbrey, B.Ed., B.A. (West. Australia), B.Sc. (London), M.A., Ph.D. (Toronto), *Associate Professor*
 V. Falkenheim, B.A. (Princeton), M.A., Ph.D. (Columbia), *Associate Professor*
 A. Rubino, A.B. (Allegheny), M.A., Ph.D. (Chicago), *Associate Professor*
 K.J.R. Sandbrook, B.A. (Carleton), M.A. (Toronto), D. Phil. (Sussex), *Associate Professor*
 S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), *Associate Professor*
 M.W. Donnelly, B.Sc., M.A., Ph.D. (Columbia), *Assistant Professor*

Sociology

N. Howell, B.A. (Brandeis), Ph.D. (Harvard), *Professor*
 W.W. Isajiw, B.A. (LaSalle), M.A., Ph.D. (Catholic Univ. of America), *Professor*
 R.L. James, M.A. (Wayne State), Ph.D. (Oregon), *Professor*
 R. Beals, B.A. (UCLA), M.A., Ph.D. (California), *Associate Professor*
 J-L. de Lannoy, Sc. Soc. (Louvain), Ph.D. (California), *Associate Professor*
 J.A. Lee, B.A., M.A. (Toronto), Ph.D. (Sussex), *Associate Professor*
 R. O'Toole, B.A. (Leeds), M.A. (McMaster), Ph.D. (Toronto), *Associate Professor*
 M. Hammond, B.A. (California), M.A., Ph.D. (Toronto), *Assistant Professor*
 J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), *Assistant Professor*
 S. Ungar, B.A. (McGill), M.A., Ph.D. (York, Canada), *Assistant Professor*

1

Admissions and Awards

ADMISSION

The following is a brief description of the admission policies and procedures of the University of Toronto. Full information may be obtained from:

The Office of Admissions
 University of Toronto
 315 Bloor Street West
 Toronto, Ontario, M5S 1A3

Bases of Admission

- (1) **Ontario Grade 13**
 Admission to the College may be offered to students in an Ontario Secondary School who have demonstrated good standing, including:
 - (a) completion of secondary school studies, including a full programme of academic work at the Grade 13 level;
 - (b) - before 1972, seven Grade 13 credits were required
 - 1972 to present, six Grade 13 credits are required
 - (c) submission of a complete academic report for the last three years of secondary school.
- (2) **Other Canadian Provinces**
 Alberta, British Columbia, Manitoba,
 New Brunswick, Nova Scotia, Saskatchewan - Grade 12

Newfoundland - 1st year Memorial University
Prince Edward Island - 1st year University of Prince Edward Island
Quebec - C.E.G.E.P. 1 or equivalent

(3) **Other Canadian Universities**

Students who have completed work at other universities may be considered for admission with advanced standing credit. Credit is granted only for work which is considered appropriate for inclusion in an Arts and Science programme at the University of Toronto.

(4) **Other Countries**

Students who would like to apply for admission on the basis of work completed in other countries should write to the Office of Admissions, outlining their academic qualifications. Students who appear to be eligible for admission consideration will be mailed application forms and further information.

(5) **Non - Matriculants**

Applicants who do not hold the published admission requirements may be considered for admission, where the applicant:

- (a) is 21 years of age;
- (b) has been resident in Ontario for at least one year as a Canadian citizen or landed immigrant; and
- (c) achieves high standing in one, special, pre-university course;* or has completed two Grade 13 courses, with a 70% overall average and not less than 60% in each (in lieu of the pre-university course).

* Pre-university courses are offered by Woodsworth College of the University of Toronto in English, History and (on the St. George Campus) Canadian Studies, Chemistry and Mathematics. Completion of one of these courses generally requires attendance at class for two evenings per week for a winter or summer session. Successful completion of a pre-university course does not ensure admission in all cases. Hence, students must consult with the Office of Admissions *before* enrolling in one of these courses to ensure that completion of a course will indeed make the applicant eligible for admission consideration.

(6) **Special Admission and Appeals**

Students who have not completed secondary school, but who have had other educational or work experience which they believe demonstrates their ability to do university work, may put forward a special case to the Scarborough College Special Admissions Committee. Such cases will be considered only where applicants are Canadian citizens or landed immigrants, have been Ontario residents for one year, and are at least twenty-one years of age. Students who have completed secondary school or some post-secondary study, but whose grades do not meet the usual admission requirements, may bring special circumstances to the attention of the Special Admissions Committee.

Applicants who wish to have a special case considered by the Special Admissions Committee should arrange an interview with the Admissions/Liaison Counsellor, telephone (416)284-3359. Students may also write to the Admissions/Liaison Counsellor, Scarborough College, University of Toronto, 1265 Military Trail, West Hill, Ontario, M1C 1A4.

English Facility Requirement

Students whose mother tongue is not English and who have not completed at least two years of study in a Canadian secondary school are required to present evidence of facility in the English language.

Students may complete this requirement by: earning a score of at least 90 on the University of Michigan Test of English Language Proficiency; earning a score of at least 550 on the Test of English as a Foreign Language (T.O.E.F.L.); or by earning a Certificate of Proficiency issued by either Cambridge University or the University of Michigan.

The University of Toronto is a sponsoring agency for the University of Michigan Test of English Language Proficiency and the Test of English as a Foreign Language (T.O.E.F.L.). Information about these tests will be mailed to any applicant who has not presented evidence of facility in the English language.

Admission Requirements for Students Entering Scarborough College from Grade 13 in the Fall of 1982-83 and Thereafter

- (1) Grade 13 academic subjects will be arranged into the following five groups for the purposes of admission:
- Group A - English (or *Anglais 'comme langue seconde'*)
 - Group B - Languages other than English
 - Group C - Mathematics
 - Group D - Sciences
 - Group E - Other Humanities and Social Sciences
- (2) For admission, at least six Grade 13 credits will be required in the above subjects, distributed as follows:
- (a) at least one credit in English/*Anglais* (at level V or level VI)
 - (b) sufficient additional credits for a total of six, chosen in such a way as to cover at least two groups in addition to Group A and including at least one credit in either Group B or Group C.
- (3) Among the six credits required for admission, applicants may not present more than:
- (a) two credits in the field of English, however designated;
 - (b) three credits in mathematical subjects, including such courses as Accounting, Statistics, etc.
Note: If an applicant includes one or more credits in Mathematics among the six required for admission, at least one must be in Algebra or Calculus or Relations and Functions.
 - (c) two credits in any other subject
Note: Generally not more than one credit is available in each of the sciences; however, an applicant may present two credits, where possible, in a single science and one in another science, or one credit in each of three different sciences.

Application Procedures

- (1) **Current Ontario Grade 13 Students**
Students currently enrolled in an Ontario secondary school should submit applications through their school guidance or student services office.
- (2) **All Applicants Other than Current Ontario Grade 13 Students**
All applicants, other than current Ontario Grade 13 students, should request application forms from the Office of Admissions, giving full details of their educational background and standing.

Application Dates

Students are strongly advised to submit application forms as soon as possible and before the following dates:

- Admission to the Summer Evening Courses (beginning in May) - April 1
- Admission to the Summer Day Courses (beginning in July) - May 15
- Admission to the Winter Session - June 30

Applications will also be accepted after the above dates to the maximum extent possible. However, applications received by the above dates will receive priority consideration.

AWARDS

Admission Scholarships

A substantial number of admission scholarships is awarded each year on the basis of excellent academic standing as demonstrated by Grade 13 marks, Grade 12 marks and other information submitted by the secondary schools.

To apply, Grade 13 students should complete an application form, available in all Ontario secondary schools in early spring. Successful applicants will be notified at the time they receive an offer of admission to the University.

Scarborough College Alumni Admission Award. Awarded to a Graduate of a Borough of Scarborough High School (Public or Separate) who has provided evidence of valuable community service and demonstrated high academic standing. Applications will be available from Scarborough Schools.

Plumptre Admission Award. Awarded to the Grade 13 student whose achievement in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Dr. A.F. Wynne Plumptre, a former principal of Scarborough College.

In-Course Awards

University of Toronto In-Course Scholarships. Awarded to the outstanding students who have completed at least one year's work at the University of Toronto. All students with excellent academic standing are considered; no application is required.

A. D. Allen Scholarship. Awarded to the outstanding student in each year at Scarborough College, in any field of study. The scholarships are awarded in memory of Dr. A. D. Allen, a former principal of Scarborough College.

Scarborough College In-Course Scholarships. Awarded to the outstanding student in each year at Scarborough College, in each of Humanities, Science and Social Sciences. All students with excellent academic standing are considered; no application is required.

The Hudson's Bay Company Scholarship. Awarded to a student who has demonstrated outstanding academic achievement at the end of third year. The scholarship alternates between students in the Humanities/Social Sciences and Life Sciences/Physical Sciences. All appropriate students with excellent academic standing are considered; no application is required.

The Ali Tayyeb Scholarship. Awarded to a student who demonstrates excellent scholarship in political geography, geography of resources, studies of developing nations, Canadian studies, or an appropriate related field. Awarded in memory of Professor Ali Tayyeb, a former member of the faculty in Geography. Suitable candidates are nominated by members of the Scarborough College faculty; no application is required.

Paskal Bursary in Psychology. Awarded to a full-time student who has completed a three-year programme and plans to pursue a fourth year (either graduate or undergraduate) with specialization in Psychology. The bursary is awarded on the basis of academic standing (at least Grade B standing is required) and financial need. Awarded in memory of Professor Vivian Paskal, a former member of the faculty in Psychology. The competition will be announced each spring, with applications available from Student Services.

Diefenbaker Essay Prize. Awarded on the basis of an essay, 2,500 to 5,000 words in length, on any topic within the general field of Canadian Studies. The essay should have Canada as its primary, principal or exclusive focus. Essays are nominated by instructors.

Graduation Prizes

The following awards are made in recognition of academic excellence among the members of the graduating class each spring. All outstanding members of the graduating class are considered; no application is required.

The Governor General's Silver Medal. Awarded to the outstanding member of the graduating class, chosen from among the winners of the graduation prizes.

Graduation Prizes in Humanities, Life Sciences, Physical Sciences and Social Sciences. Awarded to the outstanding member of the graduating class in each of these four areas of scholarship. Recipients of three-year and four-year degrees are considered.

Ali Tayyeb Prize. Awarded to the outstanding member of the graduating class in Geography.

The Book Society Prize in Classical Studies. Awarded to a member of the graduating class who has taken a minimum of five courses in Classical Studies and has achieved the highest standing in those courses, including at least one full course in Latin or Greek.

Scarborough College Honours List

Scarborough College publishes annually an honours list, including the names of all students who have achieved a grade point average of 3.70 or better in their most recent year of full-time study (or equivalent amount of part-time study) and including perhaps the names of other students selected on the basis of academic excellence. Inclusion of a student's name on the annual honours list is reported on the student's transcript, and is recognized by the College in other appropriate ways. All students with grade point averages of 3.70 or better at appropriate junctures of their career are recognized. Other students may be nominated by the academic Divisions of the College. No application is required.

Graduation With High Distinction and With Distinction

Students who complete their degree with a cumulative grade point average of 3.50 or better graduate with high distinction. Those who complete their degree with a cumulative grade point average of 3.20 or better graduate with distinction. The achievement of these students is recognized at the Convocation ceremonies and is recorded on students' transcripts.

Bursaries

University of Toronto In-Course Bursaries. Applicants for bursaries must demonstrate exceptional financial need. Applications may be obtained from the Student Services Office. Deadline: December 1.

University of Toronto Visa Student Bursaries. Foreign students required to pay the higher tuition fee who have previously been enrolled at this or another Ontario university may be considered for visa student bursaries. The bursaries are awarded to those students who demonstrate that they require financial assistance.

Application deadline: November 1, May 15 for summer assistance

Scarborough College In-Course Bursaries. Applicants for bursaries must demonstrate exceptional financial need. Applications may be obtained from the Student Services Office. Deadline: February 15.

Ontario Student Assistance Programmes

Canadian citizens or landed immigrants who have established themselves as Ontario residents, and who demonstrate financial need, may be eligible for interest-free loans or grants. Full information may be obtained from the Student Services Office.

2

Academic Regulations

Student Responsibility

- (1) It is the responsibility of each student to read these academic regulations carefully and to adhere to them. It is also the responsibility of each student to read carefully instructions and information issued from time to time by the College concerning registration procedures, fees payment, standards of academic honesty and the like.
- (2) Some of these regulations may appear to be complicated. Counsellors in the Student Services Office would be pleased to assist any student in the interpretation of these regulations, in explaining the application of any regulation in a particular case, and (where appropriate) in assisting students who encounter special difficulties to request special consideration with respect to the regulations.

Course Selection

- (1) In selecting their courses, students must adhere to the following regulations:
 - (a) Courses selected must satisfy the degree requirements.
 - (b) Courses must satisfy the requirements of students' Programmes of study (Specialist Programmes, Major Programmes or College Programmes). (The completion of an appropriate Programme(s) of study is mandatory only for students who first registered at the College in the 1980 Summer Session or thereafter when the "Programme" requirements came into effect.)

- (c) Students may register for credit in no more than seven A-level courses.¹
 - (d) Students proceeding to a three-year degree may include, among the fifteen courses required for their degree, no more than ten courses in any single discipline. (This regulation applies only to students who first registered at the College in the 1980 Summer Session or thereafter when this regulation came into effect.)
 - (e) Prerequisites and corequisites for each course (as stated in the course descriptions) must be met, unless waived by the instructor.
 - (f) Students may not register for credit for a course if they have already passed² another course shown (in the course description) as an exclusion to that course.
 - (g) Students may not re-register for credit in a course if they have already passed that course. Students may re-register in a course they have taken, but failed. In such cases, both registrations in the course are shown on the student's record, and both grades count in the student's grade point average.
 - (h) Students may not register for credit in a course which is a specific prerequisite for a course they have already passed.³
- (2) Students may select as many courses as they wish each Session (and proceed to their degrees at a rate of their own choosing), except as follows:
 - (a) The usual load for a full-time student in the Winter Session is five courses.
 - (b) The usual maximum load for a student in the Summer Session is two courses.
 - (c) A student who is on probation may enrol in no more than five courses in the Winter Session or one and one-half courses in the Summer Session.
 - (3) Students must register for their courses in accordance with instructions issued each Session by the Registrar. Students who wish to change their registration:
 - (a) may do so only until the deadlines for adding and withdrawing from courses, stated in the "Academic Calendar" section of this Calendar;
 - (b) must notify the Registrar of any change by means of a "Registration Change Form", submitted by the appropriate deadline, and completed in accordance with instructions issued by the Registrar.

Notes:

1. *A Course.* The word course is used in two ways. In reference to a single course, (such as "standing in a course" or "the last day to withdraw from a course") the word refers to a full course or half course. In reference to a given number of courses (such as the requirement of passing fifteen courses for a three-year degree), the word refers to a number of full courses, or the equivalent in full and half courses.
2. *To Pass A Course.* To pass a course means to obtain a grade of 'D-' or better in that course (or "Credit" in a Credit/No Credit course or "Honours" or "Pass" in an Honours/Pass/Fail course).
3. *A Specific Prerequisite.* This rule does not apply in the case of non-specific prerequisites (such as "one B-level course in English") or in the case where one of two or more completely different courses may serve as prerequisite.

Degree Requirements

(1) Three-Year Degree:⁴ New Requirements

The following "new" requirements apply only to students first registered at the College in the 1980 Summer Session or thereafter. To qualify for a three-year degree, such students must:

- (a) pass at least fifteen courses;
- (b) among these fifteen courses, include no more than ten courses in any single discipline;⁵
- (c) among these fifteen courses, pass at least eight B-level and/or C-level courses;
- (d) complete the requirements of a Major Programme⁶ or a College Programme;
- (e) earn a grade of 'C-' or better in at least ten courses, including at least six B-level and/or C-level courses;
- (f) earn a cumulative grade point average of at least 1.50;
- (g) for a Bachelor of Science degree, pass at least six B-level and/or C-level courses in Science, as defined below.

(2) Three-Year Degree: Old Requirements

The following "old" requirements apply only to students who first registered at the College in the 1979-80 Winter Session or earlier. To qualify for a three-year degree, such students must:

- (a) pass at least fifteen courses;
- (b) among these, pass at least eight B-level and/or C-level courses;
- (c) obtain a grade of 'C-' or better in at least nine courses, including at least five B-level and/or C-level courses; and

- (d) for a Bachelor of Science degree, pass at least six B-level and/or C-level courses in Science, as defined below.
- (3) **Four-Year Degree: New Requirements?**
The following "new" requirements apply only to students who first registered at the College in the 1980 Summer Session or thereafter. To qualify for a four-year degree, such students must:
- pass at least twenty courses;
 - among these, pass at least thirteen B-level and/or C-level courses;
 - complete: (i) a Specialist Programme,⁸ or (ii) two Major Programmes, or (iii) a Major Programme and a College Programme;
 - earn a grade of 'C-' or better in at least fourteen courses, including at least ten B-level and/or C-level courses;
 - earn a cumulative grade point average of at least 1.50;
 - for a Bachelor of Science degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

(4) **Four-Year Degree: Old Requirements**

The following "old" requirements apply only to students who first registered at the College in the 1979-80 Winter Session or earlier. To qualify for a four-year degree, such students must:

- pass at least twenty courses;
- among these, pass at least thirteen B-level and/or C-level courses;
- obtain a grade of 'C-' or better in at least thirteen courses, including at least nine B-level and/or C-level courses; and
- for a Bachelor of Science Degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

(5) **Courses in Science for the B.Sc. Degree**

The following courses are considered to be courses in Science for purposes of determining eligibility for the Bachelor of Science degree.

- All B-level and C-level courses in the following disciplines: Astronomy, Biological Science, Chemistry, Computer Science, Geology, Mathematics, Physics, Psychology and Statistics.⁹
- The following courses in Anthropology: ANTB11, ANTB12, ANTB14, ANTB15, ANTB22, (ANTB25)¹⁰, ANTB26, ANTB27, ANTB29, (ANTB33), (ANTB36), ANTB39, ANTB40, ANTB43, ANTB44, ANTB47, ANTB48, ANTB52, ANTB53, (ANTC08), ANTC12, and ANTC36.
- The following courses in Geography: GGRB02, GGRB03, GGRB07, GGRB15, (GGRB18), GGRB19, (GGRB21), GGRB24, GGRB25, GGRC05, GGRC15, (GGRC23), GGRC24, GGRC25, GGRC28, GGRC30. In addition, GGRC01 may be used to fulfil the B.Sc. requirements for students researching in appropriate scientific areas of Geography.
- The following joint courses: JBC, JMC, JMP, JPA, JPM courses and JLPB55 (as given in 1976-77 only). Psychology students should note that JLPB55 is not normally credited towards the science requirement for the B.Sc. degree.
- (NSCB02) and QUAB02.

Notes:

- The "three-year degree" was until this year referred to as the "fifteen-course degree". Parts (b), (e) and (f) of these requirements are dependent on approval of the Governing Council of the University.
- A discipline ("a branch of knowledge or of teaching" such as History or Physics or Sociology) is defined, for purposes of this regulation, as a subject area:
 - in which courses are listed together in the same section of course descriptions in this Calendar, and
 - whose courses share the same "discipline abbreviation" in the course code, e.g. HIS or PHY or SOC.
 Where students register in courses offered jointly by two disciplines (e.g. JBCB35 - a joint Biology and Chemistry course in Biochemistry), students may count the course in whichever discipline they wish.
- The usage of the term "Major Programme" has changed substantially this year. What were previously called "Major Programmes" are now "Specialist Programmes". This change in terminology is dependent on approval of the Governing Council of the University.
- The "four-year degree" was until this year referred to as the "twenty course degree". Parts (d) and (e) of these requirements are dependent on approval of the Governing Council of the University.

- "Specialist" Programmes were until this year called "Major" Programmes. This change in terminology is dependent on approval of the Governing Council of the University
- "MAT" & "STA" courses, are considered to be courses in Science for purposes of determining eligibility for the B.Sc. degree. Other courses in statistical methods offered by various other disciplines may or may not count as courses in Science for purposes of this rule. Thus, for example, ANTB43, GGRB02, PSYB07 and PSYB08 are listed in the rule and may be counted as science courses; ECOB11, ECOB12 and SOCB06 may not.
- Courses shown in parentheses are courses that were in the curriculum in previous years, but are no longer. These courses may be counted as Science courses for purposes of this rule.

Programme Requirements: New Rules

The following requirements apply only to students who first registered at the College in the 1980 Summer Session or thereafter.

- To meet the requirements of the three-year degree, students must complete either a Major Programme or a College Programme.
- To meet the requirements of the four-year degree, students must complete:
 - a Specialist Programme, or
 - two Major Programmes, or
 - a Major and a College Programme.
- Specialist Programmes**
Specialist Programmes are designed to provide *depth and intensity of study within a limited area* - a discipline, a group of disciplines or a particular theme or area of study. A Specialist Programme may be taken only as part of a four-year degree and will consist of at least nine courses. (A list of Specialist Programmes may be found on p. 39.)
- Major Programmes**
Major Programmes are designed to provide *concentration* in an area of study - a discipline, a group of disciplines or a particular theme or area of study. A Major Programme may be taken as part of either a three-year or a four-year degree and will consist of six to eight courses. (A list of Major Programmes may be found on p. 39.)
- College Programmes**
College Programmes are designed to provide an *organizing framework* for students desiring wide-ranging but coherent programmes of study in a major area of the curriculum. A College Programme may be taken as part of either a three- or a four-year degree. (A list of College Programmes may be found on p. 39.)
- Approved Individual Programmes**
Students may, if they wish, propose individual programmes of study, other than those described in this Calendar.
 - Normally, such proposals will be considered favourably only from students on the Scarborough College Honours List (see page 14).
 - Proposals should be made to the Associate Dean, who will convey them to the College Sub-committee on Academic Programmes.
 - Proposals may be made at any time after the session in which students complete their fourth course.
 - Proposals submitted before 15 July will be considered in time to enable students to register in their Approved Programmes in the forthcoming Winter Session. If possible, proposals should be submitted earlier.
- Course Selection for Programmes of Study**
Students are responsible for ensuring that their course selection will enable them to complete the requirements of their Programme(s) by the time they complete their other degree requirements.
 - A member of the College faculty serves as Supervisor for each Programme. Students should note that, in certain Programmes, approval by the Supervisor of some or all courses is necessary. In all Programmes, the Supervisor is available for advice concerning Programme requirements and course selection.

- (b) While students in their first year of full-time study, or first four courses of part-time study, are not required to select a Programme, such students should, when selecting their first year courses, consider carefully the requirements of any Programmes they may later choose to follow. Supervisors, instructors in A-level courses, other appropriate faculty members, and counsellors in Student Services may be consulted for assistance.
 - (c) Students in their second and higher years of full-time study, and part-time students who have completed more than four courses, should consult annually with the Supervisors in their Programmes to ensure that their course selection will meet Programme requirements.
- (8) **Registration in Programmes**
- (a) First year students (or students in their first four courses of part-time study) are not required to choose, or register in, a Programme(s). Rather students may make use of their experience in their first-year courses to help them select their Programmes. To this end, students are not required to take more than two courses in any discipline in their first year of study. However, as noted above, students should ensure that their first-year course selection will fulfil the requirements of any Programme they may later choose to follow.
 - (b) Beginning with their second year of full-time study (or following their fourth course of part-time study), students must register in one or two Programmes of study.
 - (c) Students register in their Programmes at the time they submit their course registration for any Winter Session.
- (9) **Programme Transfers**
- (a) Students who wish to transfer from one Programme to another must discuss the proposed transfer with the Supervisor in the new Programme, and obtain the Supervisor's approval.
 - (b) To register the transfer, students must submit to the Registrar's Office a "Registration Change Form", signed by the Supervisor of the new Programme. This form must be submitted by the last date to add courses in any term.
- (10) **Certification of Completion of Programmes**
- (a) Certification of completion of Specialist, Major and College Programmes will appear on students' transcripts.
 - (b) Students request certification of completion of their programmes early in their final session of study at the College, at the same time as they request inclusion of their name on the graduation list. (See below, "Degrees". Students are given complete information about this procedure early in each Summer and Winter Session.)
- (11) **Regulations Concerning Programmes of Study**
- (a) Students may register in no more than two Programmes at any time. Students may receive certification of completion of no more than two Programmes.
 - (b) Where a student is registered in two Major and/or College Programmes with overlapping course requirements, a student may use no more than two courses to fulfill the requirements of both Programmes. In cases where two Programmes have an overlap of more than two courses, students must substitute additional courses, approved in advance by either Supervisor, to reduce the overlap to two courses or fewer. Such substitutions should be discussed with the appropriate Supervisor when the student first registers in the overlapping Programmes.
 - (c) Where a student completes the requirements of a three-year degree and of a Major or College Programme, and subsequently chooses to complete a four-year degree and a Specialist Programme, the student may use the courses already accredited to the Major or College Programme to fulfill the requirements of the Specialist Programme. Upon successful completion of the additional requirements, any previous certification of the Major or College Programme will be removed from the student's transcript and will be replaced by certification of the Specialist Programme. (Students will note that the requirements of the Specialist Programme and the corresponding Major or College Programme have been designed to facilitate changes between the Programmes.)

- (12) **St. George Courses and Programmes**
Students should note that certain Programmes will require students to take some of their courses on the St. George Campus.

Programme Regulations: Applicable to Pre-1980 Students

- (1) Students who first registered at Scarborough College before the 1980 Summer Session (when the new Programme requirements came into effect) are not required to complete a Programme(s) in order to complete their degree. Such students may, however, still choose to complete a Programme(s) and to obtain certification on their transcripts.
- (2) Where students had passed fewer than five courses as of the beginning of the 1979-80 Winter Session and wish to complete a Programme, they will be expected to complete the Programme requirements set out in this 1980-81 Calendar, or in subsequent Calendars.
- (3) Students who had passed at least five courses as of the beginning of the 1979-80 Winter Session, retain the right to certification by completing the Programme described in the 1979-80 Calendar.
 - (a) Students who are eligible to receive certification by completing Programmes described in the 1979-80 Calendar are advised nonetheless to consider the merits of the new Programmes described in this 1980-81 Calendar and to consult with the Supervisor about the wisdom of opting for one Programme over the other.
 - (b) Students who are eligible to receive certification by completion of "old" Programmes are also cautioned that in some cases curriculum restructuring has followed the redesign of Programmes. Students will therefore require advice on selection of new courses to meet the requirements of the old Programmes.
 - (c) In cases where students choose to receive certification by completion of old Programmes, Supervisors and students should record the Programme and course selection agreed upon so that problems will not arise when students become eligible to graduate and receive Programme certification.

English Proficiency Requirement¹¹

The following requirement applies only to degree students¹² who first registered at Scarborough College in the 1980 Summer Session or thereafter. Such students must demonstrate an appropriate level of proficiency in the use of the English language, as follows:

- (1) All students will be required to take a designated test in English language proficiency at the first opportunity after admission. (Students will be mailed information about sittings of the test.) Students who pass this test will be deemed to have met the English proficiency requirement.
- (2) Students who fail the test must meet the English proficiency requirement within a two year residence period¹³ after their first attempting the test. They may do so either:
 - (a) by passing the test at a subsequent sitting, or
 - (b) by passing a designated course in English language skills. (These courses are described as an Appendix to this section of the Calendar.)
- (3) Students who fail to meet the English proficiency requirement within the two year residence period will be refused further registration until such time as the requirement has been satisfied.

- Notes:
- 11 Certain provisions in parts (2) and (3) of this requirement are dependent on approval of the Governing Council of the University.
 - 12. Special students, i.e. students not proceeding towards a University of Toronto degree, are not required to satisfy this requirement.
 - 13. Where a student registers for no courses in any twelve month period, this year will not be counted as one of the two "residence" years in which the student must satisfy this requirement.

Standing in a Course

(1) Grading Scheme

Students are assigned a grade in each course, as follows:

Grade	Grade Point Value	Percentage Equivalent	Definition
A+	4.3	90 - 100	Excellent
A	4.0	85 - 89	
A-	3.7	80 - 84	
B+	3.3	77 - 79	Good
B	3.0	73 - 76	
B-	2.7	70 - 72	
C+	2.3	67 - 69	Adequate
C	2.0	63 - 66	
C-	1.7	60 - 62	
D+	1.3	57 - 59	Marginal
D	1.0	53 - 56	
D-	0.7	50 - 52	
H	No value		Honours in an Honours/Pass/Fail course ¹⁴
P	No value		Pass in an Honours/Pass/Fail course
CR	No value		Credit in a Credit/No-Credit course
E	0.3	35 - 49	Inadequate
F	0.0	0 - 34	Wholly Inadequate
FL	No value		Fail in an Honours/Pass/Fail course
NCR	No value		No credit in Credit/No-Credit course ¹⁵

Grades of 'E', 'F', 'FL' and 'NCR' are failing grades, yielding no standing in a course and no degree credit.

- Notes:
- The use of the Honours/Pass/Fail Grading scheme is dependent on approval by the Governing Council of the University.
 - The exclusion of the grade 'no credit' from the grade point average is dependent on approval.

(2) Credit/No Credit and Honours/Pass/Fail Courses

In some courses such as music performance courses, drama courses, or conversation courses in languages, specific letter grades may not be assigned. Students may instead be graded according to either of the two following systems:

- Credit/No Credit (CR/NCR); or
- Honours/Pass/Fail (H/P/FL).

Where a student earns a grade of Honours, Pass, or Credit in such a course, the course counts as one of the courses required for the degree and as one of the courses at C- or better required for the degree. The grades of No Credit and Fail are failing grades, yielding no standing in the course and no degree credit. Courses graded according to either the Credit/No Credit system, or the Honours/Pass/Fail system, are not included in any grade point average.

(3) Standing Deferred

The Sub-committee on Standing may, on petition, assign an interim grade of "Standing Deferred" (SDF). This grade is assigned in cases where an extension of time to complete a course is granted on the basis of medical or similar evidence. The grade of "Standing Deferred" must be replaced by a regular grade assigned by the instructor before the expiry of a specific extension period.

(4) Aegrotat Standing

The Sub-committee on Standing may, on petition, assign a grade of "Aegrotat" (AEG). This grade is assigned on the basis of term work where medical or similar evidence demonstrates that a student is unable to complete course requirements within a reasonable time, and where a student has already completed at least 60% of the work of the course with a term mark of B- or better. Where a student is assigned Aegrotat standing, the course is counted as one of the courses required for the degree and as one of the courses at C- or better required for the degree. The course is not included in any grade point average.

Overall Standing

(1) Grade Point Averages

Both a sessional and a cumulative grade point average (GPA) will be calculated for each student at the end of each session, and shown on the student's transcript.

- A grade point average is calculated as follows: the grade points earned in each full course and one-half the grade points earned in each half course are added together and this total is divided by the number of full courses (or equivalent) taken.
- A sessional grade point average is calculated on the basis of all courses taken in a given session (winter or summer).
- A cumulative grade point average is calculated on the basis of all courses taken having a grade point value.

(2) Determination of Academic Status

- In Good Standing**
Students who maintain a cumulative grade point average of 1.50 or better shall be said to be "in good standing".
- On Probation**
Students shall be placed on probation as follows:
 - Students shall be placed on probation who have attempted at least four full courses (or equivalent) in the College and have a cumulative GPA of less than 1.50.
 - Students returning from suspension (under (d)(iii) below or under any provision in previous College rules) shall be placed on probation again.
- Probation Cleared**
Students may clear probation by achieving a cumulative GPA of 1.50 or better. Students who have cleared probation shall be said to be again "in good standing".
- Suspended or Refused Further Registration**
Students who are on probation shall be liable for suspension or refusal of further registration if:
 - they have attempted at least two full courses (or equivalent) since most recently having been placed on probation; and if
 - they still have a cumulative GPA of less than 1.50.
 - A probationary GPA shall be calculated for such students, being the GPA of all courses taken since the student was most recently placed on probation.
 - Where the probationary GPA is 2.00 or better, the student may continue on probation.
 - Where the probationary GPA is less than 2.00, the student will incur suspension or refusal of further registration.
 - Students who have incurred no previous suspension will be suspended for one year.
 - Students who have previously incurred (at worst) a one year suspension will be suspended for three years.
 - Students who have previously incurred a three year suspension will be refused further registration in the College.

(3) **Petitions for Application of Pre-1978 Rules**

The rules governing the determination of academic status in (2) above, were introduced as of the 1978 Summer Session.

- (a) Where students began their degree programmes under the "old" (pre-Summer 1978) rules, and where students incur suspension or refusal of further registration under the "new" rules (above), students may petition for application of the "old" rules. (The "old" rules may be found on pages 24-25 of the 1979-80 Calendar, or may be consulted in the Registrar's Office or the Student Services Office.)
- (b) Such petitions will be granted, *except*:
 - (i) where students would incur the same penalty, or a more severe penalty, through application of the old rules; and
 - (ii) where students would, in some earlier session, have incurred the same penalty or a more severe penalty through application of the old rules.
- (c) No petition for application of the old rules will be granted to prevent a student from being placed on probation under the new rules.
- (d) Students who began their degree programmes before the 1978 Summer Session, and who incur suspension or refusal of further registration, are invited to consult with the Registrar's Office to determine their eligibility to petition for application of the old rules.

(4) **Determination of Academic Status for Students Admitted on Condition**

In certain circumstances, students who do not meet normal admission requirements may be admitted "on condition". The academic status of such students is determined according to the following rules:

- (a) The standing of students admitted on condition will be assessed at the end of the session in which such students complete their second course (full course or equivalent).
- (b) Where such students earn a cumulative grade point average of 1.70 or better, their conditional status will be removed, and they will be said to be "in good standing."
- (c) Where such students earn a grade point average of less than 1.70, they will be suspended for one year.
- (d) Upon their return from suspension, their academic status will be assessed according to the appropriate rules, in (2) above.

Courses on Other Campuses

To enrich course selection opportunities, students on each campus of the University of Toronto are permitted to take some courses on other campuses, if they wish to do so. Hence, students at Scarborough College are permitted to request registration in courses offered by the Faculty of Arts and Science on the St. George and Erindale campuses, subject to the following rules. The rules differ for full-time and part-time students.

(1) **Full-time Students**

- (a) **Definition**
For purposes of these regulations, a full-time student is defined as one enrolled in four or more courses in a Winter Session. For purposes of application of these regulations, in the Summer Session, a full-time student is defined as one who completed four or more courses in the preceding Winter Session.
- (b) **Equivalent Courses**
 - (i) Full-time students may not register in any course on another campus in the Winter Session where an equivalent course is offered on the Scarborough Campus in the same Session. A list of courses, deemed to be equivalent for purposes of this rule, may be consulted in the Registrar's Office, in Student Services, or in any of the Divisional Offices.
 - (ii) Exempted from this rule are students who have, at the beginning of the session, passed fourteen or more courses and who are enrolled in a Specialist Programme which specifies completion of one or more courses on the St. George Campus.
 - (iii) This rule, concerning equivalent courses, does not apply to the Summer Session.
- (c) **Sessional Limits**
 - (i) A full-time student may register in a maximum of *two* St. George or Erindale courses in any Winter Session.
 - (ii) A full-time student may register in a maximum of *one* St. George or Erindale course in any Summer Session.

- (iii) These sessional limits apply only to students who have completed fewer than fourteen courses. For students who have completed fourteen or more courses, there is no limit on the number of St. George or Erindale courses they may take in a session.

- (d) **Overall Limits**
Of the total number of courses completed by Scarborough College students, at least one half must at all times be Scarborough College courses. (The total number of courses refers to the sum of the courses in which students are registered plus those which they have already passed.)

(2) **Part-time Students**

- (a) As part-time students are often able to take courses only in the evening (and hence have a relatively limited range of courses available) and as enrolment pressure is somewhat less for evening courses, special arrangements are available for part-time students to take courses on other campuses.
 - (b) For purposes of these regulations, a part-time student is defined as one enrolled in three and one-half or fewer courses in a Winter Session. For purposes of application of these regulations in the Summer Session, a part-time student is defined as one who completed three and one-half or fewer courses in the preceding Winter Session.
 - (c) Of the total number of courses completed by Scarborough College students, at least one half must at all times be Scarborough College courses. (The total number of courses refers to the sum of the courses in which students are registered plus those which they have already passed.)
- (3) Students should be aware that there is a limited number of places in many courses on St. George and Erindale campuses, and that, in some Departments, Scarborough students may be given a lower priority than St. George/Erindale campus students in the assignment of places.
 - (4) Students are not normally permitted to register for courses in Faculties other than Arts and Science for credit towards their Arts and Science degrees.

Courses at Other Universities: Letter of Permission

Students in good standing who are out of Toronto during a given session (often the Summer) may request permission to take a limited number of courses at another university (or universities) for credit towards their University of Toronto degree, as follows.

(1) **Letters of Permission**

- (a) To take a course at another university, students must, *in advance*, request a "letter of permission" from Scarborough College. (Students will find that such a letter is very helpful to their obtaining admission as a non-degree student at another university in Ontario.)
- (b) Requests should be addressed to the Admissions/Liaison counsellor, on a form available from the Student Services Office. Requests should include the name of the University, and the course number, title and description. Requests should be submitted well in advance of the date of the proposed course.
- (c) In no case will credit be granted where a student has not requested and received permission in advance. (This regulation is required to ensure that students who attempt courses elsewhere are liable for penalty for failed courses as well as credit for successfully completed courses.)

(2) **Minimum Grade Requirement**

To receive credit for a course taken at another university on a letter of permission, students must earn at least one grade higher than the minimum passing grade (e.g. a grade of 'C-' or better at universities employing a grading system similar to that of the University of Toronto).

(3) **Accounting for Courses on Letter of Permission**

Students who have requested and received a letter of permission are required to submit an official transcript from the host university promptly after completion of the course. Students who do not register for their course, or who withdraw without penalty from it, are required to submit a confirming letter from the Registrar of the host university. Failure to meet this requirement may result in a grade of 'F' being entered on the student's record at Scarborough College.

(4) **Limits on Letters of Permission**

- (a) Students may be granted letters of permission to take a maximum of three courses in a three year degree programme or four courses in a four year degree programme.

- (b) Students may not take more than two courses on a letter of permission in any Winter or Summer Session.
- (c) Students will not be granted a letter of permission to take more than one course at another university out of the last five courses to be completed for the degree.
- (d) No letter of permission will be granted for: courses at other post-secondary institutions within Metropolitan Toronto, correspondence courses, or courses deemed inappropriate for Arts and Science degree credit at this University.
- (e) No letter of permission will be granted to a student who has been suspended or who is on probation.

Courses at Other Universities: Study Elsewhere Year

Students are encouraged to consider seriously the Study Elsewhere Programme, whereby credit may be obtained for work done elsewhere than at the University of Toronto.

(1) Programmes of Study

There are basically two types of Study Elsewhere:

- (a) Students may, after having obtained official approval from Scarborough College, (see "Application" below), register at a host University and follow its courses for credit; these credits will then be translated into Scarborough College credits (the "Credit Transfer" Programme).
 - (b) Students may elect to do Scarborough College supervised reading or independent studies courses off-campus in a location which will enhance their education in these courses (the "Supervised Study Elsewhere" Programme).
- A mixed programme of study is of course possible, with some courses followed at a host university for credit transfer, and some Scarborough College supervised study courses taken while the student is on the host campus.

(2) Fees and Aid

- (a) Students in the Credit Transfer Programme pay the appropriate fees at the host university and a \$100 fee to the University of Toronto in order to maintain registration in Scarborough College.
- (b) Students in the Supervised Study Elsewhere Programme pay the regular Scarborough College fees per course.
- (c) Students in a mixed programme pay \$20 for each full course (or equivalent) for which they register for credit transfer plus the regular course fee for each Scarborough College course in which they register.
- (d) Students who would have been eligible for Ontario Student Assistance for study at Scarborough College may be eligible for similar assistance in the Study Elsewhere Programme. Consult the Student Services Office for full information.

(3) Application

The interested student is invited to consult with the Associate Chairman, Division of Humanities, who coordinates the Programme. In consultation with the student, the Associate Chairman will arrange for a supervisor of studies from among the faculty.

Students should prepare their proposed programme of study with their supervisor, and submit it to the Associate Chairman three months before the beginning of the proposed term of study elsewhere.

Detailed guidance is available from the Associate Chairman to help students in constructing their programmes and in seeking approval for credits obtained elsewhere.

(4) Regulations

- (a) Any student of the College who is not on probation or returning from suspension, and who has completed four full courses, may apply for admission to the Study Elsewhere Programme.
- (b) Applications require the approval of the Sub-Committee on Standing.
- (c) Since registration in Scarborough College is maintained, the general regulations of the College pertain to students in the Study Elsewhere Programme (except as in (e) below).
- (d) No more than six full courses in a degree programme may be taken in the Study Elsewhere Programme.
- (e) Students participating in the Study Elsewhere Programme should complete their approved course of study by the beginning of the next Winter Session.

Degrees

- (1) A student may receive only one undergraduate Arts and Science degree from the University of Toronto. Scarborough College students may earn either a Bachelor of Arts or a Bachelor of Science degree.
- (2) Students may elect to receive their degree after having completed the requirements for a three-year degree or a four-year degree.
 - (a) Students who have elected to receive their degree after having completed a three-year degree may still choose to complete the requirements for the four-year degree; completion of the four-year degree requirements will be noted on the student's transcript, but a second degree will not be conferred.
 - (b) Students who elect to receive their three-year degree must so notify the Office of the Registrar well in advance of the appropriate convocation. Forms for this purpose will be mailed to all eligible students.
 - (c) Students who have completed the requirements for the four-year degree will automatically have their names placed on the list to receive their degree at the next University Convocation, unless they have already received their degree after having completed the three-year requirements, or unless they specifically request that their graduation be deferred to a later Convocation. Nonetheless, to prevent any possible error, students who wish to receive their four-year degree should so notify the Office of the Registrar well in advance of the appropriate Convocation. Forms for this purpose will be mailed to all eligible students.
 - (d) When students are sent forms for the purpose of notifying the Office of the Registrar of their wish to graduate, a deadline date will be stated for the submission of the form. Where a student submits this form late, every effort will be made to include the student's name on the graduation list, but there is no guarantee that this will be possible. In addition, where a student submits this form after the last day of classes (and where arrangements can be made to include the student's name on the graduation list), a late fee of twenty-five dollars will be charged.
- (3) Degrees are conferred at University Convocations, held twice annually: the spring convocation held in June and the fall convocation held late in November or early in December. Students who have submitted the appropriate notification of their wish to graduate will be mailed complete information about the time and arrangements for the Convocation.

Academic Transcripts

- (1) The academic transcript is the official statement of the academic record of each student.
- (2) Contents

The transcript records the following information.

 - (a) Information to identify the student: full name, university student number, social insurance number, and date of birth.
 - (b) Admission information: basis of admission (e.g. Ontario Grade XIII, 85.0%); listing of courses completed at other universities for which the student was granted advanced standing credit.
 - (c) The student's academic record, listed chronologically by session. For each session, the transcript indicates:
 - (i) each course attempted, its abbreviated title, and its grade;
 - (ii) the sessional grade point average;
 - (iii) The cumulative grade point average as at the end of the session;
 - (iv) the student's academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for three years, or refused further registration;
 - (v) Any academic honours awarded at the end of the session: scholarships, prizes or medals awarded by the College or by the University, inclusion on the Scarborough College Honours List, and graduation with high distinction or with distinction.

(3) Ordering Copies

Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a copying fee: one dollar and fifty cents for the first copy and fifty cents for each additional copy ordered at the same time.

- (a) Copies of transcripts may be requested in person or by letter only. As a student's signature is required to authorize release of the transcript (in order to protect confidentiality of records), telephone requests cannot be accepted.
- (b) Copies of transcripts sent directly to educational institutions and other institutional recipients bear a replica signature of the Registrar and the official College seal. To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them and that it not pass through the student's hands.
- (c) Copies of transcripts given or sent directly to students bear a replica signature of the Registrar, but do not bear the official College seal and are marked "unofficial".
- (d) To order copies of transcripts, students should visit the Office of the Registrar, or should write to: Office of the Registrar, Scarborough College, University of Toronto, 1265 Military Trail, West Hill, Ontario, M1C1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto".
- (e) There is no charge for copies of transcripts sent to other divisions of the University of Toronto.

Access to Student Records

In order (a) to allow students as great a degree of access to their own academic records as is academically justifiable and administratively feasible, and in order (b) to safeguard students' rights to privacy of their academic records, the University of Toronto implemented on 1 July 1979 a "Policy on Access to Student Records...". The application of this policy with respect to Scarborough College students is as follows.

(1) Student Record Information Deemed to be Public Information

The following parts of students' personal and academic records are deemed to be public information and will be given freely to enquirers on request:

- (a) whether a student is currently registered;
- (b) the student's address and telephone number; and
- (c) for graduates of the College - the degree and date of its conferral.

Where students do not want their address and telephone number released by the College or published by the Students' Administrative Council in its annual student directory, students should so notify both the Scarborough College Registrar's Office (in writing) and the Students' Administrative Council (12 Hart House Circle, St. George Campus, University of Toronto, telephone 978-4909).

(2) Access to Other Parts of the Student Record

All other parts of students' records are considered confidential, and access will be granted only as follows:

- (a) Access will be granted to students who wish to see their own records, as in (3) below.
- (b) Access will be granted to members of the University staff who demonstrate to the Registrar that they require access in order to perform their duties; and
- (c) Copies of student transcripts, and letters or oral reports based on other student record information, will be released on the written request of the student. (See "Transcripts" above for procedures for ordering copies of transcripts.)
- (d) This information will otherwise be released only in response to an order from a court of law.

(3) Students' Access to their Own Records

- (a) Students may request personal access to the following parts of their own records:
 - (i) Official transcripts of their academic record (see "Transcripts" above for procedures for ordering copies of transcripts);
 - (ii) student records in computer files, except information dealing with students' applications for admission (particularly the secondary school principal's confidential recommendation); and
 - (iii) students' paper files, except for:
 - information filed before 1 July 1979, when this policy was implemented. (Before this time, individuals who made entries in student files did so with the assurance that these entries would be confidential);
 - information relating to students' applications for admission (particularly the secondary school principal's recommendation); and
 - medical information.
- (b) Students who wish to inspect their academic records (as provided in (a) above) should make their request in writing to the Assistant Registrar. The Assistant Registrar will arrange individual appointments at a mutually convenient time within thirty days of the

receipt of students' requests. At the appointed time, students may examine their records in the presence of the Assistant Registrar (or another designated member of the Registrar's Office staff).

- (c) Students may request a copy of the material in their files (to which they have access), for a five dollar copying fee. (Students should note that some material in their files may yield only poor quality or even illegible photocopies.)

Withdrawal

(1) Withdrawal from a Course

- (a) Students may withdraw from courses up until the following deadlines:

	1980 Summer Session	1980-81 Winter Session
Year long courses ('Y' and 'H')	18 July	13 February, 1981
First term courses ('F' and 'A')	6 June	31 October, 1980
Second term courses ('S' and 'B')	25 July	27 February, 1981

Where a student withdraws from a course by the appropriate deadline, no record of registration in the course is shown on the student's transcript.

- (b) A student may effect withdrawal from a course by completing appropriately a "Registration Change Form" and submitting the form to the Office of the Registrar. Where this is not possible, the student may write to the Office of the Registrar.
- (c) Students who withdraw from courses by appropriate deadlines are entitled to a fees adjustment. For full information, please refer to the "Schedule of Fees" published each session. The amount of the fees adjustment is determined by the date upon which the "Registration Change Form" or other written notification is received by the Office of the Registrar.
- (d) Students who withdraw from courses will be given or mailed a receipted copy of their Registration Change form. Students should retain these copies until after they have received their "Statement of Results" for the particular session.

(2) Withdrawal from the College

- (a) Students who wish to withdraw from the College effect withdrawal by:
 - (i) withdrawing from all courses, in accordance with the procedures and deadlines above; and
 - (ii) completing the procedures outlined in (b) below.

Where a student withdraws from the College after completing a first term course, the student retains credit for that course (or retains a failing grade). Where a student wishes to withdraw from the College before completing a course but after the deadline for withdrawal from that course, the student will not be permitted to withdraw from that course. That is, registration in the incomplete course will be shown on the academic transcript along with (presumably) a failing grade.
- (b) In addition to effecting withdrawal from courses, students must complete the following procedures and submit a "Withdrawal Clearance Form" to evidence their completion:
 - (i) Surrender any Bookstore charge card and arrange payment of any outstanding account;
 - (ii) Return any borrowed books to the Library, pay any outstanding Library Fines, and surrender their Library Card;
 - (iii) Return any equipment borrowed from the College Recreation Centre and surrender any Recreation Centre locker;
 - (iv) Surrender any College locker and return (perhaps for a partial refund) any College parking permit;
 - (v) Surrender any laboratory locker and equipment; and
 - (vi) Surrender their registration card.

Students who wish to withdraw from the College should speak with a counsellor in the Student Services Office. The counsellor will: advise students concerning the academic consequences of their withdrawal (deadline dates, eligibility for re-admission, etc.); advise students concerning any fees adjustments; and advise appropriate students with respect to any required repayment of Ontario Student Assistance. (These procedures are somewhat simplified for part-time students.)

- (c) Where students withdraw from the College, and withdraw from all of their courses in the Session, no record of registration and withdrawal is shown on their transcripts. (This policy became effective beginning with the 1978 Summer Session.)

Grading Practices Policy

- (1) As early as possible in each course (and no later than the last date to add that course) the instructor will make available to the class the methods by which student performance will be evaluated and the relative weight of these methods.
- (2) After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least two-thirds of the students registered in the course.
- (3) The final grade in a course will normally be based on more than one evaluation element, i.e. on more than one examination, essay, or other similar piece of work. Normally, no one evaluation element (examination, essay, etc.) will be worth more than two-thirds of the final grade. Exempt from this requirement are advanced seminar courses or supervised research or supervised reading courses; in such courses, more than two-thirds of the final grade may be based on a thesis, a research essay or project, or a comprehensive examination.
- (4) Normally at least one-third of the final grade in a course will be based on supervised examinations.
 - (a) In A-level courses, at least one-third of the final grade will be based upon a formal examination(s) in the Christmas examination period in December and/or in the final examination period in April and May (or in comparable examination periods in the Summer Session).
 - (b) In B-level and C-level courses, at least one-third of the final grade will normally be based upon a formal examination(s) (as in (a) above). Alternatively, a supervised term test(s), valued at at least one-third of the final grade, may be substituted for the formal final examination, upon the annual request of the instructor and approval of the appropriate Divisional Chairman.
 - (c) The following courses may be exempted from the requirement for examinations, upon request of the instructor and approval of the appropriate Divisional Chairman: advanced seminar courses; supervised reading or research courses; and performance courses such as musical performance or art studio courses.
- (5) The relative value of each part of a written examination will be indicated on the examination paper.
- (6) Instructors will make available to students commentary on assessed term work and will make available time for discussion of such term work.
- (7) Grades, as an expression of the instructor's best judgement of each student's overall performance in a course, will not be determined by a system of quotas.
- (8) Grades, submitted by the instructor in each course, are subject to review by the marks review committee of the appropriate Division and by the Scarborough College Marks Review Sub-committee.
- (9) For procedures for appeals concerning grades and grading practices, see below "Procedures for Requesting Special Consideration, Petitions, and Appeals".

Procedures for Requesting Special Consideration, Petitions and Appeals

- (1) **Petitions for Exceptions to the Academic Regulations**
 - (a) Students may request that an exception to any academic regulation be made in their case. Such a request takes the form of a petition to the Scarborough College Sub-committee on Standing.
 - (b) To enter a petition, the student prepares a written statement:
 - (i) stating clearly the special consideration requested;
 - (ii) stating clearly the grounds upon which special consideration is requested, i.e. the reason(s) why the student believes an exception to the rules is appropriate in this particular case; and
 - (iii) appending documents to evidence special circumstances: medical certificates, etc.
 - (c) Students who wish to submit medical certificates in support of their petitions should ask their physician:
 - (i) to verify that the student was examined at the time of the illness;
 - (ii) to state briefly the nature of the illness;
 - (iii) to indicate the duration of the debility caused by the illness; and
 - (iv) to indicate the physician's professional opinion as to whether the student should receive special consideration with his or her academic work on medical grounds.

- (d) Students are urged to seek the advice of a counsellor in the Student Services Office before entering a petition and in preparation of the petition.
- (e) Petitions are submitted to the Sub-committee on Standing through the Student Services Office.
- (f) Students are notified in writing of the Sub-committee's decision on their petition.
- (g) Students who wish to appeal any decision of the Sub-committee on Standing are entitled to enter an appeal to the Sub-committee on Academic Appeals - see (6) Academic Appeals, below.

(2) Requests for Special Consideration in a Course

A student may find it necessary to request special consideration in a course owing to illness or other extenuating circumstances.

(a) Term Work

(i) Special Consideration Before the End of Term

Where students are unable to write a term examination, where their performance is adversely affected by illness or other extenuating circumstances, or where students are unable (for these reasons) to submit term assignments by instructors' deadlines, students should (except as noted below) speak with their instructor as soon as possible to request special consideration.

(ii) Special Consideration at the End of Term

Where students' medical problems or other extenuating circumstances occur towards the end of the term, and where they must request extensions of time to submit term assignments or permission to write make-up term examinations after the "last day for submission of term work" (shown in the "Academic Calendar" section of this Calendar), students must submit a formal petition to the Sub-committee on Standing. See (1) above for information about the petition procedure. The petition must be submitted as soon as possible and no later than the last day of the relevant examination period.

(iii) Where students wish to appeal the decision of their instructor with respect to a request for special consideration, they should, as soon as possible, speak with or write to the Chairman of the Division offering the course. Where students wish to appeal any decision of the Sub-committee on Standing, they may enter an appeal to the Sub-committee on Academic Appeals - see (6) "Academic Appeals", below.

(b) Final Examinations

(i) Where, for reason of illness or other extenuating circumstances, students are unable to write a final examination, they may request special consideration by means of a petition to the Sub-committee on Standing.

(ii) Where students believe that their performance on a final examination may be adversely affected because of illness or other extenuating circumstances, students should (if possible) attempt the examination and then submit a petition to request special consideration.

(iii) See (1) above for information about the petition procedure. Students should submit their petitions as soon as possible and no later than the last day of the relevant examination period.

(3) Requests for Checking of Marks in a Course

Where students believe that an error has been made in the calculation of their final grade in a course, or in the calculation of a mark on any examination or term assignment, they may request a re-check of the calculations according to the following procedures.

(a) Term Work

Where students believe that their mark on a term examination or term assignment has been calculated incorrectly, they should speak with the course instructor as soon as possible to request that the mark be checked.

(b) Final Examinations

Where students believe that an error may have occurred in the calculation of their final examination mark, they should do the following:

(i) After the issue of their "Statement of Results" but within six months of the relevant examination period, students may request from the Office of the Registrar a photocopy of their final examination. A five dollar fee is required at the time of the request.

(ii) If students believe that an error has been made in the calculation of their examination mark, they may submit, through the Office of the Registrar, a

request for a recheck of the calculation. This request must be entered within six months of the relevant examination period. If an error is discovered and the mark is changed, the copying fee will be refunded.

- (c) **Final Grade**
Where students believe that an error has occurred in the calculation of their final grade, they should do the following. After the issue of their "Statement of Results" but within six months of the relevant examination period, students may submit, through the Office of the Registrar, a request for a recheck of the calculation of the grade. A five dollar fee is required at the time of the request. If an error is discovered and the mark is changed, the fee will be refunded.
- (d) **Note Concerning Failed Courses**
Instructors are required to re-read the final examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.
- (4) **Petition of Marks in a Course**
Where students believe that their work has been graded unfairly, they may petition their grade as follows.
 - (a) **Term Work**
 - (i) Where students wish to petition their grade on a term examination, an essay or another term assignment, they should speak with the course instructor as soon as possible, and certainly before the end of term.
 - (ii) Where students wish to appeal the decision of an instructor with respect to the grading of term work, they should speak with or write to the Chairman of the Division offering the course.
 - (iii) Where students wish to appeal their grade on term work returned to students only after the end of term (i.e. after the instructor has submitted grades for the course), a formal petition to the Sub-committee on Standing may be entered. See (1) above for information about the petition procedure.
 - (b) **Final Examinations**
Where students wish to look into the possibility of an appeal of their final examination mark, they may do the following.
 - (i) After the issue of his "Statement of Results" but within six months of the relevant examination period, students may request from the Office of the Registrar a photocopy of their final examination. A five dollar fee is required at the time of the request.
 - (ii) After students have seen the photocopy of their final examination but within six months of the relevant examination period, they may submit a petition to the Sub-committee on Standing to request re-reading of their final examination. The Sub-committee will authorize a re-reading only where a student:
 - has articulated clear grounds for reconsideration of some part(s) of the examination, which grounds address the substance of the answer in relation to the mark given it, or otherwise identify the nature of the alleged miscalculation;
 - has demonstrated that the alleged miscalculation is of a substantial nature: i.e. that, in an objective answer, a correct response has been counted as incorrect; or that, in a subjective or essay answer, the response has been underevaluated substantially. If an error is discovered and the mark is changed, the copying fee will be refunded.
 - (c) Students should note that, where the Sub-committee on Standing authorizes re-reading of any examination or item of term work, it is the responsibility of the Division offering the course to arrange the re-reading and to authorize any change in the grade. It has been the usual practice in the Divisions to have examinations or term work re-read by the course instructor, unless some convincing argument is put forward by the student that the work be re-read by another member of the faculty.
 - (d) **Note Concerning Failed Courses**
Instructors are required to re-read the final examination and to recheck the calculation of term and final marks before submitting a failing grade ('E' or 'F').
- (5) **Petitions Concerning Grading Practices in a Course**
The rules governing the determination of grades in a course (grading practices) are shown above. Where students believe that they have been disadvantaged by violations of these grading practices, they may proceed as follows:

- (a) **Grading Practices During the Term**
 - (i) Where students believe that an instructor has violated any rule of the College's grading practices during the term, they are expected to discuss this complaint with the instructor at once.
 - (ii) If this discussion does not yield a resolution to the problem that is satisfactory, students may appeal the decision of the instructor to the Chairman of the Division offering the course.
 - (iii) If the appeal does not yield a resolution to the problem that is satisfactory, students may appeal the decision of the Division to the Principal of the College.
- (b) **Grading Practices After the End of Term**
 - (i) Where students believe that an instructor has violated any rule of the College's grading practices, and this alleged violation comes to light only after the end of term, students may submit a petition to the Sub-committee on Standing.
 - (ii) If the petition does not yield a resolution to the problem that is satisfactory, students may appeal the decision on the petition (in the usual manner) by means of an appeal to the College Sub-committee on Academic Appeals. (See (6) below.)
- (6) **Academic Appeals: the Scarborough College Sub-committee on Academic Appeals**
 - (a) Students may appeal any decision of the Sub-committee on Standing on a petition, including any decision by a Division of the College concerning grading, by means of an appeal to the Scarborough College Sub-committee on Academic Appeals.
 - (b) An Appeal to the Sub-committee on Academic Appeals must, except in unusual circumstances, be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the Sub-committee on Standing or by the Division. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Sub-committee on Academic Appeals - the Associate Dean of the College.
 - (c) Students are entitled, if they wish, to a hearing before the Sub-committee on Appeals, and are entitled to representation by legal or other counsel.
 - (d) Full information may be obtained from the Office of the Associate Dean.
- (7) **The University of Toronto Academic Appeals Board**
 - (a) Students may appeal any decision of the Scarborough College Sub-committee on Academic Appeals to the University of Toronto Academic Appeals Board.
 - (b) Such appeals must, except in unusual circumstances, be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the Sub-committee on Appeals. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Appeals Board.
 - (c) Students are entitled, if they wish, to a hearing before the Appeals Board and are entitled to representation by counsel.
 - (d) Full information may be obtained from the Secretary to the Appeals Board, Office of the Governing Council Secretariat, Room 106, Simcoe Hall, St. George Campus, telephone 978-8794.
- (8) **University Ombudsman**

As part of the University's commitment to ensuring 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. He assists in any way he can in resolving grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, he 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 President and 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 Scarborough Campus may arrange to meet with the Ombudsman at the Scarborough College Campus or at the St. George Campus, whichever is more convenient. Requests for assistance are dealt with as quickly as possible.

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: Academic Matters

Code of Behaviour on 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 has been published in the brochure, *Welcome to the University of Toronto: A selective guide to student services and facilities*, available from the Student Services Office. Important parts of the Code, from the point of view of the student, are shown below.

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 of the University:

- (a) knowingly to use or possess unauthorized aids or obtain unauthorized assistance in any academic examination or term test or to use unauthorized aids or obtain unauthorized assistance in any other form of academic work;
- (b) knowingly to represent as that of the member in any academic work submitted for credit in a course or programme of study any idea or expression of an idea of another;
- (c) knowingly 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;
- (d) knowingly 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;
- (e) to forge or in any other way falsify any academic record of the University or of any academic division of the University or to forge or in any other way falsify any academic record of another educational institution used for the purposes of the University of Toronto, or to utter or make use of any such forged or falsified records;
- (f) to remove books or other library material from a University library without proper authorization, to wilfully mutilate library material or misplace it, or in any other way wilfully to deprive other members of the University of the opportunity to have access to library resources.

Sanctions

The following sanctions, listed in order of increasing severity, may be imposed by the University Disciplinary Tribunal upon conviction of any student of any offence:

- (a) Caution;
- (b) Censure;
- (c) Assignment of a mark of zero in academic work submitted for credit;
- (d) Failure in or cancellation of credit for any course or other academic work in respect of which any offence was committed;
- (e) Suspension from attendance in all courses in which the student is registered at the time the offence was committed for any period less than twelve months from the date on which the offence was committed and loss of credit for any course or courses which have not been completed or in which no grade or final evaluation has been registered at the time the offence was committed;
- (f) Suspension from the University for such period as may be determined by the Tribunal; or
- (g) Expulsion from the University.

Reporting

All persons convicted of academic offences under the Code of Behaviour will have their names included in a report by the Provost to the Academic Affairs Committee of the University.

Discipline: Non-Academic Matters

Student discipline for offences not covered by the Code of Behaviour on Academic Matters is vested, in the case of matters considered to be of University-wide concern, in the Caput. The Caput is composed of

the heads of the Colleges and Faculties, the Warden of Hart House, and, in a non-voting capacity, the President of the Students' Administrative Council.

Scarborough College Council has disciplinary jurisdiction over the conduct of all students registered in the College on all matters of local or internal concern to the College. Jurisdiction over the conduct of students while in residence rests with the Dean of Students in Residence, in the first instance, and ultimately with the Principal of the College.

Where the appropriate body or officer exercising disciplinary jurisdiction has found that a student of the University has engaged in conduct prejudicial to the interests of the University, the Caput may, at its discretion, suspend or expel such student from the academic privileges of the University. Every decision of the Caput involving the expulsion of a student from the University requires confirmation of the Governing Council.

The roles of the Caput, Scarborough College Council, the Dean of Students in Residence and the Principal, as described above, are contingent on the understanding that offences or actions or claims within the jurisdiction of criminal and civil courts will be referred where appropriate to those courts and will only be reviewed by the Caput where the implications to the University are considered sufficiently important to warrant such review.

Enquiries should be directed to: Office of the Vice-President, Campus and Community Affairs, Room 112, Simcoe Hall, University of Toronto (Telephone: 978-2196).

Appendix: Non-Credit Courses in Writing Skills

Students who begin their studies at Scarborough College in the 1980 Summer Session or thereafter will be required to complete the College's English Proficiency Requirement (see page 21 of this Calendar). The following non-credit courses are intended primarily for students who fail or do poorly on the English Proficiency Test. They are open, however, to all students who wish to improve their writing skills.

ESLA01Y (Basic Writing Skills) and ESLB01F/S (Writing Skills) are intended for students for whom English is a second language. They are offered through the University of Toronto School of Continuing Studies.

EWSA01Y (Basic Writing Skills) and EWSB01F/S (The University Essay) are intended for students whose first language is English.

A fee, to be announced, may be required for enrolment in these courses.

These courses do not count for credit towards the degree requirements.

Further information about these courses may be obtained from the Writing Laboratory (S-303F; phone: 284-3369). Timetable information and registration forms may be obtained from the Registrar's Office (S-416B) or Student Services (S-302).

ESLA01Y Basic Writing Skills | Coordinator: M. Tyacke (School of Continuing Studies)

This is a non-credit course for students whose native language is not English. The aim of the course is to improve the student's ability to construct grammatically sophisticated sentences and to incorporate them into university level discourse.

The primary focus of this course is on writing a variety of grammatically correct sentences and on using them to develop coherent paragraphs which contain clearly defined topic sentences. Punctuation and word choice are also an important part of the course. Written work will be done in class time. Teacher-student consultations will be built into the programme to assure individualized help.

Teaching methods include: lectures, discussion, group work, workbook exercises and written assignments.

The textbook is Donald, *Writing Clear Paragraphs*, Prentice Hall.
Sessions: Winter Day, perhaps Winter Evening and Summer

ESLB01F/S Writing Skills | Coordinator: M. Tyacke (School of Continuing Studies)

This is a non-credit course for students whose native language is not English. The aim of the course is to increase the student's ability to organize and develop an expository essay.

The course will concentrate on teaching the student to develop a thesis statement for an essay, to organize material in outline form and to write a coherent essay from the outline paying attention to details like the use of transitions and connectives. Sentence structure and variety will be discussed as necessary. Written assignments will be done in class time. Teacher-student consultations will be built into the programme to assure individualized help. This course is not recommended for students who have problems with basic grammar.

Teaching methods include: lectures, discussion, group work, workbook exercises, and written assignments.

The textbook is Adams, *Think, Read, React, Plan, Write, Re-write*, Holt.

Sessions: Winter Day, perhaps Winter Evening and Summer

EWSA01Y Basic Writing Skills / Coordinator: A. Fisher

The aim of this course is to help students learn to construct syntactically clear and correct sentences and to develop a prose style suitable for university level work. The primary focus will be on the sentence level: grammar, punctuation, diction, usage and style. The organization and rhetorical development of the paragraph and of the essay as a whole will also be considered.

Teaching methods include: lectures, discussions and workbook exercises.

Students will be evaluated on the basis of short weekly essays, usually written in class.

Sessions: Summer Evening, Summer Day, Winter Day, Winter Evening

EWSB01F/S The University Essay / Coordinator: A. Fisher

The aim of this course is to help students learn to deal with the organization and rhetorical development of the university essay. The primary focus will be on the formulation of a thesis, the organization and presentation of ideas, and the development of paragraphs. Research methods, note-taking, incorporating quotes into essays, and so on will also be dealt with. Report writing may be covered briefly, depending on class needs. Although the sentence level (style, the rhetorically effective sentence, etc.) will be considered, the course is not intended for students who have basic problems with syntax or grammar.

Teaching methods will include lectures and discussion.

Students will be evaluated on the basis of short weekly essays, usually written in class.

Sessions: Summer Evening, Summer Day, Winter Day, Winter Evening

3

Programmes of Study and Course Descriptions

Course Key

The Course Code.

- (1) *The Discipline Abbreviation.* The first three letters of the course code indicate, in an abbreviated form, the discipline or subject area of the course.
 - ANTA01Y "ANT" indicates a course in Anthropology
 - CHMB05Y "CHM" indicates a course in Chemistry
 - PHLC87S "PHL" indicates a course in Philosophy*Joint Courses.* The first letter of the course code of a course offered jointly by two disciplines is "J" followed by the first letter of the two disciplines concerned. For example:
 - JCEB72S indicates a course offered jointly by Commerce and Economics.
- (2) *The Course Level.* The fourth letter of the course code indicates the level of the course.
 - A level courses Introductory or elementary courses
 - B level courses Intermediate level courses
 - C level courses Advanced courses
- (3) *The Course Number.* The fifth and sixth letters of the course code are simply course numbers. In most disciplines, these numbers have no particular significance, except to identify the course in a shorthand form. In some disciplines, however, they are significant - for example in History and Economics. The introductory material at the beginning of the course descriptions in any discipline points out any special significance given to course numbering.

- (4) **Credit Value and Duration of a Course.** The final letter of the course code indicates the credit value and duration of a course as follows:

Final Letter	Credit Value	Winter Session	Summer Session
Y	Full Course	Sept. - May	May - August
F	Half Course	Sept. - Dec.	May - June
S	Half Course	Jan. - May	July - August
H	Half Course	Sept. - May	May - August
A	Full Course	Sept. - Dec.	May - June
B	Full Course	Jan. - May	July - August

Hence, ANTA01Y is an introductory course in Anthropology taught throughout the session and worth a full course credit. PHLC87S is an advanced course in Philosophy taught only in the second term and worth one-half a course credit.

Note: Courses marked F/S will usually be offered in either the first or second term.

Exclusions, Prerequisites and Corequisites.

- (1) *Exclusions.* If a student already has standing in a course which is indicated as an exclusion, the student may not enrol in the course being described.
- (2) *Prerequisites.* A student must have standing in the prerequisite course before he may enrol in the course being described. Prerequisite requirements may, however, be waived by the instructor in the course being described if he feels that there are adequate grounds for so doing. If a student registers in a course without meeting its prerequisite requirements and without obtaining a specific waiver of the prerequisite, the student may be withdrawn from the course at any time during the term.
- (3) *Corequisites.* A student must either already have standing in a corequisite course, or he must enrol in the corequisite course at the same time as he takes the course being described. Instructors are permitted to waive corequisite requirements if they feel that there are adequate grounds for so doing. If a student registers in a course without meeting its corequisite requirements, or if a student withdraws from the corequisite course without obtaining specific waiver of the corequisite requirement, the student may be withdrawn from the course at any time during the term.
- (4) *Exclusions, Prerequisites and Corequisites in Parentheses.* Some exclusions and some prerequisite and corequisite courses are enclosed in parentheses. This indicates that the excluded, prerequisite or corequisite course is no longer in the College's curriculum. A student who has standing in an excluded course contained in parentheses may not take the course being described. A student who has completed, in a previous session, a prerequisite or corequisite course contained in parentheses may make use of the course to meet the requirements of the course being described.

Supervised Reading, Supervised Research and Independent Study Courses.

- (1) *Supervised Reading Courses.* Students in reading courses usually work under the direction of a faculty member with whom they meet periodically to discuss their reading, their progress, etc. They may also meet occasionally with other students doing similar reading. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering supervised research courses.
- (2) *Independent Study Courses.* Students in independent study courses usually work under the direction of a faculty member with whom they meet periodically. A topic for independent study is normally chosen after consultation between student and staff members. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering independent study courses.

Programmes

The following Programmes are offered at Scarborough College:

Specialist Programmes

Anthropology* Astronomy & Physics Biology Chemistry Chemistry & Biochemistry Chemical Physics Commerce & Economics Computer Science Computer Science for Data Management Cooperative Programme in Administration Drama Economics Economics & Political Science English* Fine Art* Fine Art History* Fine Art Studio* French	Geography German Area Studies History* History of Ideas Humanities Language & Literature Linguistics Mathematics Medieval Civilization Modern Languages Philosophy* Physics Political Science Psychology* Renaissance Studies Russian & Related Studies Sociology*
--	--

Major Programmes

Anthropology* Astronomy & Physics Biochemistry Biology Chemistry Classical Civilization Classical Studies Commerce* Computer Science Drama Economics* English* Fine Art History* Fine Art Studio* French Language* French Language & Literature* Geography German Language	German Language & Literature History* Italian Language Italian Language & Literature Linguistics Mathematics Medieval Civilization* Music Philosophy* Physics Political Science* Psychology* Quaternary Studies Renaissance Studies Russian Language & Literature Sociology* Spanish Language Spanish Language & Literature
---	--

College Programmes

Canadian Studies History of Ideas* Humanities*	Myth & Religion Russian & Related Studies
--	--

* These are Programmes which the College plans to make available to students who are able to study only in the evening.

ANTHROPOLOGY

Assistant Chairman:

Anthropology is the study (or science) of humankind, dealing with the origin, development and nature of humans and their culture. As such it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines societies today and in the past, as part of complex civilizations and in relatively small-scale non-literate societies. From this vantage point Anthropology attempts to arrive at an understanding of the common factors underlying human existence and to isolate the causes that have led and continue to lead to social and cultural change (and to differences between peoples and cultures).

Because of the vastness of its subject matter, Anthropology is traditionally divided into four sub-fields: Social-Cultural Anthropology, Prehistoric Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three only, with occasional offerings in the last. (For a full list of courses in Linguistics, see the entry for Linguistics in this Calendar.)

Specialist Programme in Anthropology

Supervisor: H.B. Schroeder

The Specialist Programme in Anthropology is intended to provide the professionally-oriented student with background preparation of sufficient breadth and depth to pursue specialized training at the graduate level. It is also designed to offer interested students a course structure of sufficient flexibility to follow their intellectual interests into the diverse yet holistic perspective on the human phenomena provided by Anthropology.

All students are required to consult with the Supervisor concerning the selection of a course sequence appropriate to their interests and objectives.

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

- (1) ANTA01Y Introduction to Anthropology
- (2) Two courses from among the following:
 ANTB15Y Introduction to Physical Anthropology
 ANTB20Y Introduction to Social Organization
 ANTB26Y Introduction to Prehistoric Archaeology
- (3) Six full-course equivalents from the remaining B- and C-level courses in Anthropology.
- (4) One full-course equivalent in supervised reading and research
 ANTC03F
 ANTC04S
 ANTC13F
 ANTC14S
- (5) At least 2 full-course equivalents in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor.

Major Programme in Anthropology

Supervisor: H.B. Schroeder

The Major Programme in Anthropology provides a course structure for those students desiring to expand upon or supplement other areas of academic interest by taking advantage of Anthropology's unique global, chronological and biological perspective on humankind.

The Programme requires completion of six full-course equivalents in Anthropology including:

- (1) ANTA01Y Introduction to Anthropology
- (2) One course from among the following:
 ANTB15Y Introduction to Physical Anthropology
 ANTB20Y Introduction to Social Organization
 ANTB26Y Introduction to Prehistoric Archaeology
- (3) Four additional full-course equivalents from B- or C- level courses in Anthropology.

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

ANTA01Y Introduction to Anthropology / S. Hilton

An introduction to the fields of anthropology through which the student will obtain the anthropological view of the nature and diversity of humans. The first term deals with Physical Anthropology and Prehistoric Archaeology, concentrating on the biological basis and the evidence for the origins and growth of culture. The second term concerns historic archaeology, the nature of Language and the comparative aspects of Cultural Anthropology, through a study of social groups as well as economic, political and religious systems in both non-industrial and industrial societies.

The teaching method consists of lectures and tutorials.

Session: Winter Day, Winter Evening

ANTA03Y Peoples of the World / T. McFeat (and Staff)

This course is designed to provide intimate views of the lives of peoples in communities in various parts of the world. Emphasis is given to the diversity of cultures rather than their common features.

This course will cover the human features of primate groups, the modern features of ancient groups, and the ancient features of contemporary groups. *Communities*: their survival and change, ideals and evils, gossip and witchcraft. *Mobility*: the organizing of crews for fishing, raiding and exploration; leaders and followers. *Stability*: community patterns, houses and environments, temples. *Expressiveness*: variations in humour, origin myths, oral and mass media; drama. *Exchanges*: gifts, money and credit, reputation, cursing, secrecy, partners & friends. *Process*: infancy, childhood, being adult and aged; universal relations between men and women. *Power*: chiefs, kings, priests, shamans, sorcerers. *Reaching*: disease and curing, theories of the universe, deities, saviours and redeemers: revitalization movements. There will be lectures and discussions; slides, motion pictures and demonstrations. Papers or research projects and a final examination in spring will be required.

Exclusions: ANTA01

Session: Winter Day

ANTB01F Ecological Anthropology / H.B. Schroeder

The interrelationship of human populations with their environment, particularly as reflected in differences in technology, socio-political organization, and ideology. Emphasis will be placed on the view which sees variability in human behaviour as the product of adaption and evolutionary change.

Exclusion: ANTB10

Prerequisite: ANTA01

Session: Winter Day

ANTB02Y Anthropological Study of Religion / C. Hopen

A cross-cultural study of systems of belief and ritual concerning spiritual beings and the cosmos; of social actions, rights and obligations arising out of human dependence on such beings and of magic, curing, witchcraft and sorcery.

The course is concerned with the anthropological study of supernatural beliefs in small scale non-Western societies. Topics covered (time permitting) will be: the origin and function of religion; symbolism; myth; ritual; shamanism; magic; witchcraft; divination; death ghosts; ancestor cults; and dynamics in religion. Seminar; one two-hour session per week. Some combination of essays and/or examinations.

Prerequisite: ANTA01

Session: Winter Evening

ANTB03F The Americas: An Anthropological Perspective / R.W. Shirley

The origin and development of native cultures in the New World, with particular emphasis upon changes due to European contact.

Special emphasis will be placed on social dynamics and focus on Latin America.

Session: Winter Evening

ANTB05S Social Anthropological Study of Africa / C. Hopen

After a review of certain cardinal social and cultural background features of the continent, a more intensive study of comparative religion will be made. Hopefully, guest lecturers will help round out the perspective.

This will be a study of the major institutions of African society, their ecology, economic, religious and domestic organizations. Seminar: one two-hour session per week. Some combination of essays and/or examinations.

Prerequisite: ANTA01

Session: Winter Day

ANTB13F Background to Modern Archaeology

An introduction to the history and theory underlying modern archaeological methods and interpretations - and perhaps some insight into the "Romance of Archaeology" - through the medium of original literature and site reports. The course reviews major trends in the development of prehistoric archaeology as a scientific discipline in both hemispheres.

Prerequisite: ANTB26, or permission of instructor

Session: Winter Day

ANTB14Y Human Evolution

An analysis of the phylogeny of man. The issues and controversies that form the theoretical framework to the understanding of fossil evidence. Readings substitute for a single text. Class discussion and presentation of assigned readings are expected. Laboratory sessions permit the student to examine fossil cast materials.

The course involves an analysis of the rise of evolutionary theory through natural selection, the development of genetic theory and the eventual rise of the synthetic theory of evolution. A brief survey of the evolutionary development of vertebrates, a survey of primate fossils and presumed evolutionary directions. Finally the major portion of the course deals with a survey of the discovery of hominid fossils and attempts to synthesize a meaningful interpretation out of what is presently known concerning human origins. The goals of the course are to introduce evolutionary theory in an historical context, to survey the history of the discovery and interpretation of our ancestors and to attempt to provide a meaningful understanding of the selective pressures which culminated in the phenomenon of modern linguistic, culture-bearing *Homo sapiens*. Lectures with discussion and labs. One mid-term exam, one paper, one final exam.

Prerequisites: ANTA01, ANTB15 is recommended

Session: Winter Day

ANTB15Y Introduction to Physical Anthropology / F.D. Burton

A survey of the human place in nature: origin (Fall) and ongoing evolution (Spring). Basic to the course is an understanding of the synthetic theory of evolution and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized by the Physical Anthropologist.

Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primate biology, social organization and behaviour of non-human primates, taxonomy and classification, paleontological principles and human origins.

Prerequisites: ANTA01 or ANTB14 or Permission of instructor

Session: Winter Evening

ANTB16S The Cultures of Modern Canada / S. Hilton

A study of contemporary cultures in Canada. Indigenous groups (Indian-Metis-Eskimo) and formerly immigrant groups, both rural and urban, will be treated in the same general framework.

The course will attempt to place local and regional ethnic groups and sub-cultures in a national political and economic context. A range of cultural and regional groups will be considered to illustrate the adaption of these groups to the local contemporary social setting and to the wider contemporary Canadian setting. Case studies will include agriculturally-based religious communities, selected urban ethnic groups, French Canadian townsmen, Newfoundland outport communities, and Native Canadians. One two-hour lecture and one one-hour discussion per week. Evaluation based on assignments and a final exam.

Session: Winter Evening

ANTB19S Economic Anthropology / R.W. Shirley

A consideration of comparative economic systems in ecological and adaptive perspective, and of the nature of methods of production as a developmental process and its relation to total societal frameworks.

The course examines cross-cultural systems of production, redistribution, and market exchange; with attention given to the production and use of material objects in differing cultural environments, and to the effects of change on the ideologies surrounding these objects as products of specific environments. The marketplace is used as the focus for studying these features. Two one-hour lectures, and one one-hour seminar discussion session per week. Evaluation is based on some combination of essays and/or examinations.

Prerequisite: ANTA01

Session: Winter Day

ANTB20Y Introduction to Social Organization / M. Lambek

"Kinship is to Anthropology what logic is to Philosophy or the nude is to Art; it is the basic discipline of the subject." (Fox). This course considers variations in human social structure, focusing mainly on kinship organized societies.

The course compares a range of societies, moving in scale from the bands of hunter-gatherers, through tribes and chiefdoms, to peasant and urban societies, in order to investigate the principles of human social life and the extent of human social diversity. Major attention is placed on how kinship systems in small scale societies are used by human groups to organize their living patterns, their demographic space, their economic livelihood, and their internal and external political relationships. The course is organized around case studies, but the theoretical implications of particular models of social structure are also considered. One two-hour lecture and one one-hour discussion session per week. Evaluation will be based on a combination of essays and examinations.

Prerequisite: ANTA01

Session: Winter Day

ANTB21Y North American Background to Canadian Native Peoples / S. Hilton and T. McFeat

North American Native Peoples formed a mosaic of connected yet distinct cultures ranging in complexity from Subarctic hunters to Northwest Coast fishermen and Plains warriors; from Puebloan farmers and Iroquoian confederacies to the urban dwellers of ancient Tenochtitlan. Early contacts with Europeans destroyed the urbanites and some hunters while fundamentally altering others. Later contacts witnessed displacements, confinements, and erosion of traditional culture and widespread poverty.

Twentieth century Canada marks the regrowth of native culture with the appearance of new societies on trap lines and reserves, the formation of co-operatives, the acquisition of technical skills, unique art forms and a living literature. The pan-Indian movement, and the emergence of the Inuit, Dene, Metis, and other ethnic groups, together disclose both a new identity and a new mosaic.

Classes and discussion. Essays and Examination.

Prerequisite: ANTA01

Session: Winter Day

ANTB22Y Primate Behaviour / F.D. Burton

A general review of primate behaviour in its ecological setting.

Humankind represents only a tiny portion of the Order Primates. The interest in our own species has generated a proliferation of studies on the other members of this Order. The anthropological bias in such studies is clearly to gain a perspective on human evolution by assessing processes of adaptation. This purpose is served by examining the systematics, distribution, social behaviour and ecological relationships over the array of non-human primate forms. Three hours of lecture per week. The two hour block permits zoo visits and films. A long paper topic is selected early in the year (it may be a library work or original research at the zoo).

Prerequisite: ANTA01 or PSYA01 or BIOA03

Session: Winter Day

ANTB26Y Introduction to Prehistoric Archaeology / H.B. Schroeder

A survey of the anthropological sub-discipline which is concerned with human socio-cultural development during the past three million years. Specifically, the course reviews the aims, methodology and results of prehistoric Archaeology in both the New and Old Worlds.

This course will involve two hours of lecture and one hour of lab/tutorial per week as well as one field trip on a Saturday or Sunday of the Fall term.

Prerequisite: ANTA01

Session: Winter Evening

ANTB28S The Prehistoric Archaeology of Canada / M. Latta

A survey of the varied concerns of Canadian archaeologists and the development of the science of Archaeology in Canada. An attempt to understand the significance of Canadian prehistory for modern Canadian social and cultural developments.

Prerequisite: ANTA01

Session: Winter Day

ANTB29Y Analysis of Archaeological Material / M. Latta

This course involves in-depth examination of two major classes of material culture: ceramics and lithics. Students will develop analytical skills through construction and study of artifacts in order to evaluate materials, construction principles and function of tools in prehistoric and contemporary contexts.

Prerequisites: ANTA01, ANTB26 or ANTB27

Session: Winter Day

ANTB30Y Language and Culture

This course provides a background in *Anthropological linguistics*, emphasizing a basic knowledge of linguistic systems, and the relationships of these systems to other cultural systems.

The course concerns the relationship of linguistic structure and theory to other cultural systems, emphasizing data from non-Indo-European languages. Topics covered include language as the mediator and interpreter of culture, and the relevance of linguistics data to the study of history and prehistory. One two-hour lecture session per week. Some combination of essays and/or examinations.

Session: Winter Day

ANTB32S Introduction to Political Anthropology / R.W. Shirley

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

Prerequisite: ANTA01

Session: Winter Day

ANTB39Y Human Diversity / L.A. Sawchuk

Special emphasis will be given to the role of culture in shaping human biological make-up. This course examines the nature and scope of biological variation in contemporary human populations, and the evolutionary forces responsible.

Prerequisite: ANTA01; ANTB15 is recommended

Session: Winter Day

ANTB41S Pre-Industrial Technology

A survey of the diverse techniques that create the objects of human "material culture", with emphasis upon those of importance in the archaeological record; and a review of the implications of design process and technology for the production of the "extra-somatic adaptive mechanisms" in pre-industrial societies.

Prerequisite: ANTA01

Session: Winter Day

ANTB44Y Physiological Anthropology / L. Sawchuk

This course is designed to give the student an understanding of physiology in its ecological setting, i.e. physiological Anthropology. It emphasizes physiological principles and systems, ecological principles and systems and the interrelationship of these two areas. An anthropological approach to physiology involves considerable attention to evolutionary schemes and comparative physiology.

Specific topics include: introduction to basic physiology, physiological systems (reproduction, vision, etc.), physiological systems in adaptation (cold, heat, altitude adaptations, etc.), ecological concepts and analysis (food chains, trophic levels, etc.).

Prerequisites: ANTA01 or BIOA03

Session: Winter Day

ANTB46S Enculturation and Childhood / T. McFeat

A survey of selected communities with respect to a number of questions: Are some cultures "harder" on their children than others; does childhood vary in the application of disciplines, in the length of the period of childhood, in the extent to which young people early become competent in adult skills, ideals and concerns of the community?

We will also involve ourselves in the expressive media by which children open their creative capacities to public viewing through dancing, art, dramatics, play and games.

Method of evaluation: one essay, one test, each 50%.

Prerequisite: ANTA01 or permission of instructor

Session: Winter Day

ANTB47F Human Osteology

The course emphasizes structure and function in the human skeleton. The histology, and the ontogenetic as well as the phylogenetic development of skeletal elements is treated holistically. Palaeopathology and forensic aspects are also considered.

The course is oriented around practical procedures and laboratory sessions, and is designed to acquaint students with the systematic and functional aspects of morphological structure. It will deal with phylogenetic and developmental aspects of the Primate dentition. Lectures will emphasize theoretical issues, while laboratories will stress practical aspects. One one-hour lecture session, and one two-hour laboratory session per week.

Prerequisites: ANTA01 or BIOA03; ANTB14 and ANTB15 are recommended

Session: Winter Day

ANTB48S Human Odontology

The analysis of primate dentitions is approached from a phylogenetic and ontogenetic perspective. The evolution of dental structures among the vertebrates is stressed, with special emphasis upon the functional aspects of mammalian molars. The significance of teeth in primate and human paleontology, as well as dental histology are also treated.

The course is oriented around practical procedures and laboratory sessions, and is designed to acquaint students with the systematic and functional aspects of morphological structure. It will deal with phylogenetic and developmental aspects of the Primate dentition. Lectures will emphasize theoretical issues, while laboratories will stress practical aspects. One one-hour lecture session, and one two-hour laboratory session per week.

Prerequisites: ANTA01 or BIOA03; ANTB14 and ANTB15 are recommended

Session: Winter Day

ANTB51Y Medical Anthropology / L. Sawchuk, M. Lambek

The examination of health and disease in sociocultural and ecological perspective. Emphasis is placed on variability of populations in terms of both disease susceptibility and cultural means of definition and treatment.

The course is designed to introduce students to the basic concepts and principles of medical anthropology, focusing on the interrelationship of biological and cultural variables and processes. Principles of epidemiology, patterns of inheritance, evolutionary processes, the cultural specificity of notions of health and illness, causation and cure, and the social and symbolic organization of therapy are considered. Specific topics include: infectious disease in historical perspective, ethnic variation of constitutional disease (focusing on World Jewry), curing roles, aims and techniques in traditional African and Latin American societies (shamanism, herbalism, sorcery, etc.), health care delivery and innovation in the Third World, mental illness and the social control of deviance.

Prerequisite: ANTA01Y

Session: Winter Day

ANTB52Y Field Methods in Historical Archaeology / M. Latta

Consideration of the practice of historical archaeology, special techniques and problems, with intensive experience in an actual site situation.

The course will be offered during the summer. Since it will be necessary for students to live within commuting distance of the site, interested individuals should contact the instructor for details and arrangements. These six weeks of full-time excavation will be carried on under the joint guidance of Scarborough College and Parks Canada, with lectures and field trips to provide further insights into the use of archaeology as a tool in historical reconstruction and interpretation. Students who successfully complete this course may have the opportunity to continue work in additional programmes within Parks Canada for the remainder of the summer.

Prerequisite: ANTA01, ANTB26; HISB04 recommended as well

Session: Summer Day

ANTB53Y Classification and Material Culture / M. Latta

This course deals with a number of the most widely accepted classification systems developed for stone, ceramic, and other technologies in the Old World and North America.

The objective is to gain a practical understanding of the application of these classification systems with reference to varied collections of material culture at Scarborough College. The theory behind classification and its relevance to modern technology will also be considered. Classification is basic to anthropological analysis, and a thorough knowledge of existing classifications of material culture is essential for any student planning advanced work in archaeology or museology.

Prerequisite: ANTB26

Session: Winter Day

ANTC03F and C04S Directed Reading in Anthropology / Members of Faculty

A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. Individual tutorials, as arranged. Evaluation will be based on some combination of essays and/or oral presentations and/or examinations, as arranged.

Prerequisite: Permission of instructor

Session: Winter Day

ANTC09Y The Anthropology of Humour / C. Hopen

It is postulated that among other things, the cross-cultural study of humour should lead to a deeper understanding of core values and personality in specific societies. Limited enrolment: 15.

The course aims at investigating a general theory of humour, a classification of humour, and the search for universals. Collected data should yield information on comparative value systems. While examples and illustrations may be drawn from the Western World, most of the research will be concentrated on the "Third" World. Data are scattered, but information will be sought in fiction, fables, myths, plays and other sources. Students are expected to become familiar with literature from unfamiliar areas. Seminar; one two-hour session per week. Evaluation will be based on some combination of essays and/or examinations.

Prerequisites: Any two courses ANTB02; ANTB20; ANTB22; ANTB24

Session: Winter Day, Winter Evening

ANTC12F Research on the Social Behaviour of Non-Human Primates / F.D. Burton

The purpose of this course is to observe, record and process data of the social behaviour of non-human primates. This field experience concentrates on methods of gathering data under naturalistic conditions. The work is done either on captive animals in semi-naturalistic enclosures, or on free ranging animals abroad. An intensive course, the student is asked to commit a minimum of five hours per day when the course is held at the zoo, and dawn to dusk on free-ranging animals abroad. Limited enrolment by permission of the instructor (when abroad) or 30 (at zoo, June 1-30. 10:00 a.m.-4:00 p.m. 5 days per week). **

Evaluation will be based on 1. field exercises, 2. data, 3. group presentation, 4. observation of student in field.

Prerequisite: ANTB22 or permission of instructor

Session: Winter Day, Summer Day

** First meeting June 1, in Room H-424 at 10:00 a.m.

ANTC13F and C14S Advanced Research in Anthropology / Members of Faculty

Directed critical examination of specific problems in Anthropology, based on library and/or field research.

Individual tutorials, as arranged.

Some combination of essays and/or oral presentations and/or examinations, as arranged.

Prerequisite: Permission of instructor

Session: Winter Day

ANTC15F Frontiers of Anthropology / R.W. Shirley

This course is an advanced seminar on theoretical problems in Anthropology.

In 1980/81 it will be concerned with Medical Anthropology.

Prerequisite: ANTA01 and one B-level course in Anthropology; in 1980/81 ANTB51 or SOCB17 are recommended

Session: Winter Day

ANTC16S History of Ethnological Theory / M. Lambek

An overview of the history of ethnological thought, focusing on certain key theoretical debates which run through it and largely determine the "state of the art" today.

Evolutionary, diffusionist, psychological, cross-cultural, functionalist, structuralist, and hermeneutical approaches will be considered through selected writings from such major figures as Tylor, Durkheim, Boas, Kroeber, Malinowski, Radcliffe-Brown, and Levi-Strauss. The attempt will be made to understand these individuals in terms of the social and intellectual climates in which they wrote.

Exclusion: (ANTB09)

Prerequisites: ANTA01 and ANTB20 or permission of instructor

Session: Winter Day

ANTC42Y Native Peoples of Canada / S. Hilton

A specialized study of ethnographic and theoretical problems of native Canadian cultures.

The first term will focus upon traditional cultures with special emphasis on one ethnographic area. The second term will concentrate upon contemporary native cultures and their adjustment to Euro-Canadian society. Case examples illustrating the complex relationship between native cultures and the dominant society will be drawn from different parts of Canada. Two hours per week of lectures and one hour per week for discussion. Evaluation based on a combination of essays and exams.

Exclusion: (ANTB42)

Prerequisite: ANTA01; and one B-level course or permission of instructor

Session: Winter Day

COURSES NOT OFFERED IN 1980-81

ANTB07S Comparative Slavery
Prerequisite: ANTA01

ANTB10S Cultural Ecology: A Diachronic Perspective
Prerequisite: ANTA01

ANTB11F Pleistocene People: The Archaeology of Hunter-Gatherers
Prerequisite: ANTA01, ANTB26 is recommended.

ANTB12S Prehistory of the Holocene
Prerequisite: ANTA01, ANTB26 is recommended

ANTB17S Complex Societies
Prerequisite: ANTA01

ANTB18Y Cultural Evolution
Prerequisite: ANTA01, or permission of instructor

ANTB23Y Comparative Mythology
ANTB24Y The Organization of Group Cultures
Corequisites: ANTA01, a course in Sociology or Geography or Psychology or permission of instructor

ANTB27Y Archeological Methods and Materials
Prerequisite: ANTB26
Corequisite: ANTB26

ANTB31Y Urban Anthropology
ANTB37S Prehistory of Mexico and Mesoamerica
Prerequisite: ANTA01

ANTB38F Prehistory of North America North of Mexico
Prerequisite: ANTA02

ANTB40Y Anthropological Demography
Prerequisite: ANTA01; ANTB15 is recommended

ANTB43S Quantitative Methods in Anthropology
Exclusions: (ECOA02), ECOB11; PSYB07
Prerequisites: ANTA01; ANTB15 and ANTB26 are recommended

ANTB46S Enculturation and Childhood
Prerequisite: ANTA01 or permission of instructor

ANTB49S Law and Society
Prerequisite: ANTA01 or permission of instructor

ANTB50F Fact and Fiction in Archaeology
Prerequisite: ANTA01

ANTC02F Systems of Thought
Prerequisite: At least B-level course in social Anthropology

ANTC11Y The Anthropology of Woman
Prerequisite: One B-level course

ANTC36Y New Perspective on Human Origins
Prerequisites: ANTB14 or ANTB15

ASTRONOMY

Discipline Representative: P.P. Kronberg

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically man's attempt to gain an understanding of his place in the universe, ranging from the planetary system in which he lives to the most distant galaxies and quasars which can be seen only as they were before men walked this earth. Within the past ten years have come astronomical observations which suggest the explosive "Big Bang" origin of the entire universe and the presence of hitherto unsuspected complex molecules in the interstellar medium of our galaxy. The implications of these and other astronomical discoveries for man and his world are profound.

The full range of astronomical topics is covered at an introductory level in ASTA02 (for science students) and ASTA03 (for non-science students) while selected astrophysical topics are dealt with at a more advanced level in ASTB01 and ASTC01. JPAC10 presents the general theory of relativity and some of its applications in astrophysics and cosmology.

With the College's acquisition in 1980 of a modern Questar 12-inch telescope equipped with photometer and spectrometer, a new astrophysics laboratory course ASTB02H has been introduced, which is based on astronomical observation by the students using the new telescope.

Specialist Programme in Astronomy and Physics

Supervisor: P.P. Kronberg

Astronomy and astrophysics research occupy a prominent place in modern frontier research in physical science. Likewise research and other activities in space will occupy an increasingly important place in the endeavours of the industrial nations. The aim of the Astronomy and Physics Specialist Programme described here is to prepare the graduate for post-graduate study of astronomy and astrophysics at the research level or for a further career in space-related activities in industry or government.

Modern astronomy draws extensively on the fields of physics and mathematics. In order that the Advanced Mathematics courses be available, the early choice of Mathematics courses is crucial. There is likewise a strong core of Physics courses which form the backbone of this Specialist Programme. By acquiring the necessary background in astronomy, physics, and mathematics, a student will be in a position to consider further study of astronomy at the research level.

There are fifteen full-course equivalents prescribed out of a total of twenty courses overall. Students are advised to choose their other courses after consultation with the Supervisor, particularly at the fourth year level, where there is some degree of choice depending on the student's future plans.

First year:	PHYA02Y	Principles of Physics
	MATA26Y	Calculus with Linear Algebra
	ASTA02Y	Introductory Astronomy and Astrophysics
Second year:	PHYB01S	Electricity and Magnetism I
	PHYB04F	Waves and Optics
	PHYB17S	Quantum Physics I
	PHYB18F	Special Relativity
	PHYB09S	Thermodynamics
	ASTB02H	Astronomy Laboratory
	MATB41F, B42S	Calculus of Several Variables I, II
	or	
	MATB50F, B55S	Analysis I, II
	MATB55S	Analysis II
Third year:	PHYC01F	Quantum Physics II
	JPMC42S	Classical Mechanics
	PHYC03F	Electricity and Magnetism I
	PHYC04S	Electricity and Magnetism II
	MATC51F	Differential Equations I
	MATC60F	Complex Analysis I
	ASTB01Y	Topics in Astrophysics
Fourth year:	JPAC10Y	Relativity and Cosmology
	ASTC01H	Research Topic in Astronomy
	AST420Y	Astrophysics
	PHY335H	Introduction to Nuclear Physics
	or	
	PHY337H	Elementary Particle Physics
	and one of	

PHY456Y
PHY450Y
PHY451Y
PHY454Y

Modern Optics and Radiation
Quantum Theory
Statistical Mechanics
High Energy Physics

Major Programme in Astronomy and Physics

Supervisor: R.C. Roeder

Modern Astronomy and Space Research are closely connected with a wide range of topics in Physics and Mathematics. (See also the description of the Specialist Programme.) The Major Programme in Astronomy and Physics covers a "core" of basic courses in these two disciplines. The Programme described below consists of eight full courses (or equivalent), and is suitable for combination with other courses in Chemistry, Computer Science, Mathematics or Biological Sciences.

(1) In the first year of full-time study (or equivalent):

PHYA02Y	Principles of Physics (or PHYA03Y Physics for Life Sciences I)
MATA26Y	Calculus with Linear Algebra (or MATA55Y)
ASTA02Y	Introductory Astronomy and Astrophysics

(2) In the second year of full-time study (or equivalent):

PHYB01S	Electricity and Magnetism I
PHYB04F	Waves and Optics
PHYB17S	Quantum Physics I
ASTB02H	Practical Astrophysics (laboratory)
MATB41F, B42S	Calculus of Several Variables I, II
or	
MATB50F, B55S	Analysis I, II

(3) In the third year of full-time study (or equivalent):

ASTB01Y	Topics in Astrophysics
---------	------------------------

One additional full-course equivalent from PHYB09S, B18F, C01F, C03F, C04S, C06F, ASTC01H

ASTA02Y Astronomy: Exploring the Universe / P.P. Kronberg and R.C. Roeder

In this modern look at the universe an appreciation of the techniques and implications of astronomical observations is developed through an application of familiar physical concepts to the astronomical setting. The material discussed covers observations in the entire electromagnetic spectrum, from X-rays to the radio band. It ranges from the relatively nearby solar system to the distant reaches of quasars; from the wasteland of interstellar space to the nuclear inferno deep in a stellar interior; from the quiet life of a star like the sun to its often cataclysmic demise; from the tranquillity of an interstellar dust cloud to the frenzied environs of a pulsar, an X-ray source or a black hole. Completion of this course should better equip one to assess the importance of forthcoming developments in the advancement of knowledge of the universe and to contemplate such questions as life on other worlds. Instruction in the use of the telescopes, cameras and darkroom equipment is provided for all interested students, whether their ultimate purpose is carrying out a term project or merely extracurricular star-gazing.

The course structure is two lectures and one tutorial/laboratory per week. Practical observations are introduced in the laboratory periods and on scheduled evenings in the fall. Visits to the David Dunlap Observatory and the McLaughlin Planetarium are also arranged. Evaluation is based on term work (T) consisting of lab exercises (25 points), a term project (15 points), and a Christmas test (10 points), for a total of 50 points. A three-hour final examination (E), for a maximum of 50 points, will also be included. The final grade (F) will be computed from the equation:

$$F = (E + T) \cdot \{1 + \frac{1}{10}(E - T)\}$$

Exclusion: ASTA03

Prerequisites: Grade 13 Physics, Grade 13 Functions and Relations

Session: Winter Day

ASTA03Y A Survey of Astronomy, its Recent Development and Significance / R.C. Roeder and P.P. Kronberg.

A basic science course for non-science students, which surveys all aspects of the extra-terrestrial universe. Theories of the evolution of the solar system, stars, and the universe are presented. Recent evidence for the possibility of life on other worlds is reviewed and explained; the nature of stars and black holes, galaxies, clusters of galaxies and quasars is discussed and consideration is given to theories of cosmology and of the origin of the universe.

It is shown how mankind's changing understanding of the wider universe around him is interwoven with the history of science and natural philosophy. With this background, and a description of what has

recently been learnt about the universe, the impact and long-term significance of mankind's expansion into space are discussed. In addition to lectures, there is a one-hour tutorial per week. This is supplemented by a planetarium demonstration and a visit to the David Dunlap Observatory. Using the College's telescopes, students also have an opportunity to observe the night sky and to take their own photographs of celestial objects if they wish.

The course will describe all aspects of the extra-terrestrial universe and the methods used, past and present, to explore it. The first portion of the course will emphasize the historical context in which our knowledge of the universe has developed, and the latter part of the course deals with present and future investigations of the universe, some of its possible economic and even "philosophical" implications. At the end of the course time will be devoted to exploring the various interrelations between current technology and both space- and ground-based experiments. The course structure is two lectures and one tutorial per week. An essay will be required. Evaluation is 50% for exam and term tests and 50% for essay and tutorial exercises.

Session: Winter Day

ASTB01Y Topics in Astrophysics; Origin and Evolution / P.G. Martin

Theories and observational evidence related to the origin and subsequent evolution of astronomical objects and to the conditions for the development of intelligent life in the universe. The course will consist of five topics - the origin and evolution of the universe as a whole, of the galaxies, of the stars, and of the solar system, and a study of the conditions for and possibilities of other life in our Galaxy.

The course is devoted to presenting the theories and observational evidence relating to the origin and evolution of astronomical objects and the development of intelligent life in the universe. Students are given a comprehensive introduction, using elementary mathematics and physics, to the first four topics above. Recent developments in these areas are noted and results of numerical computations are presented. On the basis of knowledge thus gained the possibility of extrasolar planetary systems is discussed; the question of the origin of life is considered in the context of recent discoveries of complex molecules in the interstellar medium. The course structure is two lectures and one tutorial per week. Evaluation is 35% for biweekly assignments, 15% for first term test, 15% for second term paper and 35% for the final exam.

Prerequisites: PHYA02 (or PHYA01) or PHYA03; MATA26 or MATA55

Session: Winter Day

ASTB02H Practical Astronomy

Practical experience in astronomical photography, spectroscopy and photometry using the College telescopes.

The methods of astronomical photography, spectroscopy and photometry will be studied. Experimental work specifically suitable to obtaining data from observations with Scarborough College's new 12 inch Questar will be emphasized. Photographic, spectrographic and photometric equipment will be available for students during times suitable to individual students for use in their projects.

This course is intended primarily, but not solely, for students in the Major and Specialist Programmes in Astronomy and Physics.

Prerequisites: ASTA02 or ASTA03 and PHYA01 or PHYA02 or PHYA03 and MATA26 or MATA55

Session: Winter Day

ASTC01H Research Topics in Astronomy / P.P. Kronberg, P.G. Martin, R.C. Roeder

Application of individual effort to reading and research on a topic of current interest.

An all year half-course in which the student will do research on some topic of current interest in astrophysics and write a report ("mini-thesis") on his work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 80 hours of work will be done during the year, following which the mini-thesis will be submitted to the instructor. For more detailed information see Professors Kronberg, Martin, or Roeder. The bibliography is dependent upon the topic selected. Evaluation is 75% for thesis and 25% for discussion and oral summary.

Prerequisites: ASTA02 or ASTB01; PHYB01; permission of instructor

Session: Winter Day

JPAC10Y Relativity and Cosmology

A brief review of the special theory of relativity and of the mathematical background of general relativity theory. General relativistic field equations in free space and in the presence of matter, gravitational radiation, cosmological theories and observations.

This course may not be offered in 1980/81. Consult Divisional Office or Astronomy discipline representative.

Exclusions: ASTC10; PHYC10

Prerequisites: PHYB01; JPMC42, PHYB18F would be desirable

Session: Winter Day

BIOLOGICAL SCIENCES

Associate Chairman: G.F. Israelstam

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

Two Programmes in Biology are offered. 1) The Specialist Programme: For students wishing to concentrate in the biological sciences. This Programme covers core areas of Biology and a number of courses in cognate disciplines. 2) The Major Programme: For students interested in Biology but wishing to combine it with other areas of interest.

A guide to recommended course patterns in Biology and related subjects is contained in a brochure (Biology at Scarborough) which is available in Student Services; in the office of the Chairman of Life Sciences, and of the Associate Chairman (Biology) or Supervisors of Programmes.

Supervisors and other staff members should be consulted if you have questions about your Programme in Biology.

Specialist Programme in Biology

Supervisor: G.F. Israelstam

This Programme must include the following fourteen full-course equivalents:

- (1) BIOA03Y
- (2) At least one full-course equivalent from each of the following core areas:
 - (a) Genetics and Evolution: BIOB05Y, BIOB11Y, BIOB23Y
 - (b) Physiology and Biochemistry: BIOB02Y, BIOB06Y, BIOB17Y, BIOB19S, BIOB31F, JBCB35Y, JBCB36H, BIOB41Y, BIOB12H
 - (c) Ecology and Environmental Studies: BIOB12Y, BIOB15Y, BIOB39B, BIOB43Y, BIOB47Y, BIOB09F, BIOB11Y, BIOB14F, BIOB16S
 - (d) Morphology and Taxonomy: BIOB08Y, BIOB13Y, BIOB20F, BIOB22Y, BIOB24Y, BIOB27Y, (BIOB44S)
- (3) Five other full-course equivalents in Biology, unspecified. These must include at least one full-course equivalent at the C-level and the plant sciences, e.g., BIOB06Y, BIOB13Y, BIOB24Y, BIOB47Y, BIOB11Y. These five courses may include courses offered on other campuses of the University of Toronto subject to the general regulations (cf. p. 24 of 1980-81 Calendar). For a list of courses approved for this purpose, consult the Life Sciences Divisional Office.
- (4) Three courses in cognate disciplines:
 - (a) CHMA02Y
 - (b) PHYA02Y or PHYA03Y
 - (c) Any one of the following: MATA22Y, MATA26Y, or MATA55Y

One course from each of the above groups must be taken.
- (5) One full-course equivalent from selected offerings in Humanities or Social Science. A list of courses from which one is to be chosen is available in the office of the Supervisor or the Divisional Office.

A list of courses particularly suitable as options in the Biology Specialist Programme is also available in the office of the Supervisor or the Divisional Office.

Courses in Humanities or Social Sciences required for a Specialist Programme in Biology: ANTB11F, ANTB12S, ANTB20Y, ANTB22Y, ANTB26Y, ANTB44Y, ANTB51Y, JMPB50F, JMPB51S, HUMC11Y, PHLB71F, PHLC71S, SOCB11Y, SOCB19Y, SOCB23Y.

Courses considered suitable as options:

Statistics courses: (STAB52F and STAB57S, GGRB02Y, or PSYB07F and PSYB08S), GLGA01Y, PSYA01Y, PHLB71F and PHLC71S.

Students are referred also to the following Programme listed under Chemistry: Specialist Programme in Chemistry and Biochemistry.

Major Programme in Biology

Supervisor: D.D. Williams

This Programme must include BIOA03Y and any six full-course equivalents of the 'B' level courses offered by the Biology section of Life Sciences at Scarborough College, with the following restrictions:

- (1) At least one full-course equivalent must be in the plant sciences and one in the animal sciences.
- (2) At least one full-course equivalent from each of groups 2(a), (b), (c), and (d) above.
- (3) Courses required as pre- and co-requisites for any of the above courses which are *not* offered as Biology courses may *not* be considered as one of the seven required for a Major Programme in Biology. This relates specifically to Biochemistry which has a Chemistry course as a prerequisite.

The requirements for the Specialist Programme in Biology include courses in Mathematics, Physics, Chemistry and a non-science course (see above). Thus a simple addition of several Biology courses will not satisfy the requirements for the Specialist Programme in Biology.

Students are referred also to the following Programme listed under Chemistry: Major Programme in Biochemistry.

BIOA03Y Introductory Biology / The Faculty

This course is designed for students who intend to pursue further courses in Biology or other Natural Sciences. It offers a thorough consideration of basic biological concepts as they pertain to both plants and animals. Lectures will emphasize the energetics of living systems, the transmission and functions of genes, integrative functions and the origin and evolution of life. Laboratory and discussion periods will supplement the lecture material.

Specific topics include: the chemical constituents of cells, cell structure and function, inheritance, the structure and function of genes, early developmental processes, mechanisms of development, cellular metabolism, photosynthesis, molecular basis of muscle contraction, basic ecology, the nerve impulse, function of the nervous system, evolution. There will be two one-hour lectures and one three-hour laboratory per week. Evaluation will be based on three one-hour lecture examinations; two one-hour examinations based on laboratory material; one practical laboratory test; one final examination.

Exclusion: Not open to students who are taking or have taken NSCA02

Session: Winter Day

BIOB02Y Basic Microbiology / J. Silver

The general properties of bacteria, fungi and viruses, their structure, function and relationship to man, employing selected organisms to demonstrate their significance in industry, research and the health sciences. The latter part of the course presents a survey of bacterial and animal viruses, and aspects of pathogenicity and immunity. Laboratories include practical training in basic microbiological techniques.

To gain awareness of the world of microorganisms, their physiology, genetics, structure, and importance in medicine, industry and ecology. To obtain proficiency in the handling and growing of microorganisms in the laboratory. To introduce microbiological techniques used in industrial, hospital and basic research laboratories. One two-hour lecture and three hours of laboratory each week. Lecture - 60%; laboratory - 40%.

Prerequisite: BIOA03

Session: Winter Day

BIOB05Y Genetics / M. F. Filosa

A lecture and laboratory course in basic genetics and cytogenetics, with examples chosen from work on bacteria, fungi, *Drosophila* and vertebrates, including man.

Mendel's principles, linkage, mapping, assignment of genes to chromosomes, structure of gene, genetic control of protein synthesis, regulation of gene activity, chromosome structure, mutation, cytoplasmic inheritance. Lectures, laboratory work, problems, discussion. Four hours of examination based on lecture and laboratory work, laboratory reports - approximately 70%, final examination - approximately 30%.

Prerequisite: BIOA03

Session: Winter Day

BIOB06Y Plant Physiology / G. F. Israelstam

A basic lecture and laboratory course on the general physiology of plants.

The green plant as a functional organism; water and salt uptake and translocation, water loss; mineral nutrition, carbohydrate, protein and lipid metabolism. Enzymology, Photosynthesis and respiration. Growth and development of plants. The objective of this course is to introduce the student to the science of plant physiology, and to provide a training in laboratory techniques and the presentation of scientific data in this field. Lectures and laboratory work. Laboratory exercises; three one hour tests based on lecture material; three one-hour tests based on laboratory material; one three-hour examination.

Prerequisite: BIOA03

Session: Winter Day

BIOB08Y Invertebrate Zoology / D. D. Williams

General survey of the invertebrate animals with emphasis on those groups of numerical, economic and medical importance.

The first term will deal with the non-arthropod phyla (Protozoa - Urochordata) and will involve classification and study of diversity within groups, with emphasis on functional morphology and evolution. The second term will be devoted to the Arthropoda and will include the ecology and behaviour of interesting groups. Living specimens and technical films will form an important part of laboratories. Two one-hour lectures and three hours of laboratory work per week. One field trip. Written and practical examinations, term test, one essay, laboratory reports.

Prerequisite: BIOA03

Session: Winter Day

BIOB11Y Animal Population and Evolution / I. Campbell

A study of the process of heritable changes in animal populations with special regard to population genetics, population dynamics and species diversity.

The lectures deal with genetic variation and its source, natural selection, genetic drift, and modes of speciation. The laboratories consist of problems in population genetics and the discussion of current literature on evolutionary and population topics. Evaluation will be based on four tests, sixteen problem sets and one major essay.

Prerequisite: BIOA03

Corequisite: BIOB05

Session: Winter Day

BIOB12Y Fundamentals of Ecology / R. Boonstra

The course will deal with the scientific study of the interactions that determine the distribution and abundance of organisms. It is intended to promote the development of an *ecological conscience* but will not be a course devoted to the problems of pollution and populations.

Factors limiting the distribution of organisms such as adaptation, behaviour, and dispersal; attributes of populations: population estimation, life table analysis, estimation of the innate capacity for increase, and population growth; species interactions: competition and predation; theories of population regulation; ecological genetics and evolution; attributes of communities: concept of the community, species diversity, community patterns and classification, succession and climax; concept of the ecosystem; biomes of the world; community energetics; community nutrition; other topics of general ecological interest including the human population problem, island biogeography, and systems analysis.

Prerequisite: BIOA03

Session: Winter Day

BIOB15Y Aquatic Systems / C. Nalewajko (Sparling), D.D. Williams

A lecture seminar course with optional field work, on the ecology of ponds, lakes and rivers, with special reference to energy transfer in these ecosystems.

Geological background: origin of lakes. Energy balance: light and heat. Properties of water. Circulation and wave motion. Material cycling. Chemistry of fresh and salt water. Nutrient cycling. Primary production. Phytoplankton population dynamics; seasonal succession. Evolution of lakes. Natural and cultural (man-made) eutrophication. Secondary production. Lake and stream faunas. Effects of pollution. Man's effects on water bodies. Fisheries and applied topics. Two hours of lectures per week. Informal tutorials, seminars by visiting scientists, and field/lab work amount to about two hours per week. In addition, students are expected to write two major essays on assigned topics. Bibliography: Wetzel, R. G. *Limnology*; Hynes, H. B. N. *Ecology of Running Waters*. There will be two tests (50%); essays and reports of field/laboratory work (50%). Objectives: to become familiar with physical, chemical and biological characteristics of aquatic systems.

Prerequisites: BIOA03 and at least one B-level Biology course.

Session: Winter Day

BIOB17Y General and Comparative Physiology / C.K. Govind

The function of cells and of the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: (i) Body fluids and circulation, (ii) Ionic and osmotic balance, (iii) Excretion, (iv) Gas exchange, (v) Nerve and muscle physiology.

The function of cells and of the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: 1st term - nutrition, gas exchange, gas transport, heart and circulation, excretion, osmoregulation. 2nd term - nerves and bioelectricity, synapses and integration, muscle and neuromuscular systems, sense receptors and C.N.S., hormones. Lectures and laboratory work. Term tests, laboratory reports, final examinations.

Prerequisite: BIOA03

Session: Winter Day

BIOB19S Biology of Macromolecules / I.R. Brown

The basic concepts of the molecular biology of the gene - key experimental observations. Main topics will be mechanisms of gene replication and regulation of gene activity in higher and lower organisms. Students will receive laboratory experience in the use of a range of molecular biology techniques.

This course is divided in two sections. The first deals with the structure and replication of DNA. The second concentrates on RNA and protein synthesis. Laboratory exercises include (i) purification of DNA and RNA; (ii) Isolation of DNA polymerase; (iii) DNA reassociation kinetics; (iv) purification and gel electrophoresis of chromosomal proteins. The course is suitable for third and fourth year students. Lectures and laboratory work. There will be two lecture tests, two lab tests and lab reports.

Prerequisite: BIOA03

Session: Winter Day

BIOB20F Cell Ultrastructure / R. Dengler, J. Youson

This cell biology course deals with current concepts of animal and plant cell ultrastructure and is concerned specifically with the basic structure, development, and function of cell organelles. Laboratory work emphasizes the interpretation of cell components as they appear in electron micrographs.

Topics include: (i) methods used in the biological application of electron microscopy; (ii) cell membranes and cell surfaces; and (iii) cell organelles, e.g., endoplasmic reticulum, mitochondria, plastids, etc. Lectures and laboratories. Evaluation will be based on two laboratory examinations; one term paper; one lecture examination.

Prerequisites: BIOB13 or BIOB24 or BIOB27

Session: Winter Day

BIOB22Y Comparative Vertebrate Morphogenesis / A. Weatherley, R. Webb and J.H. Youson

A lecture and laboratory course dealing with the structural diversity of the vertebrates. Emphasis is placed on the evolution, development and anatomical specializations of organ systems as they are related to the physical demands placed upon the organism by its environment.

Beginning with the primitive vertebrate ancestors, this course considers the comparative anatomy of the vertebrates from both evolutionary and embryological viewpoints. Evolutionary trends which have led to the anatomical and physiological diversity of the modern vertebrates, are examined. Practical work includes the dissection of representative vertebrates. Lectures and laboratories. Examinations on lectures (50%) and laboratory materials (50%).

Prerequisite: BIOA03

Session: Winter Day

BIOB23Y Developmental Biology / I.R. Brown and R. Dengler

The study of morphological change and underlying molecular and cellular processes which occur during the life history of an organism. An analysis of development in a wide variety of organisms ranging from the unicellular to the multicellular. Particular reference will be given to the concept that regulation of gene activity is fundamental to development. Limited enrolment: 100

In the Fall term and the first half of the Spring term the principles of animal development are dealt with. The following model systems are employed - erythropoiesis, lens development, spermatogenesis, myogenesis, frog metamorphosis and carcinogenesis. In the last half of the second term R. Dengler discusses aspects of plant development. Some of the topics dealt with in this portion of the course are - comparison of developmental mechanisms in plants and animals, morphogenesis of fertilized eggs in primitive and advanced plants, and the role of cell division and cell enlargement in the development of form. Lectures and laboratory work. Lecture and laboratory examinations.

Prerequisite: BIOA03

Session: Winter Day

BIOB24Y Plant Kingdom / R. Dengler

Evolutionary relationships between the major groups of plants are examined through a comparison of vegetative form, reproductive structures and life histories of selected living and fossil organisms.

The first term deals with the comparative morphology of the nonvascular plants - fungi, algae, lichens and bryophytes. The second term covers the vascular plants - club mosses, spike mosses, quill worts, horsetails, ferns, gymnosperms and angiosperms. Particular emphasis is given to the algae, fungi and seed plants. Lecture and laboratory examinations, and final examination. Bibliography: Bold, H.C. *Morphology of Plants* Harper & Rowe, New York 1973. (Text). Foster, A.S., and E.M. Gifford, Jr., *Comparative Morphology of Vascular Plants* Freeman, San Francisco 1974. (Useful reference in second term).

Session: Winter Day

BIOB27Y Comparative Vertebrate Histology / J. Youson

The structure of the cells, tissues, and organs making up the major body systems of a variety of vertebrates as revealed through the light and electron microscopes. Differences and similarities of body systems will be discussed in relation to development, evolution, and function. Each student will be required to do an individual microtechnique project.

First term: methods used in the preparation of tissue for examination in the light microscope and a description of the various tissues of the body (epithelium, connective tissue, muscle, nervous tissue, etc.). Second term: the relationship of the above tissues in the organ systems (sense, digestive, respiratory, excretory, reproductive, and endocrine systems). Two one-hour lectures and three hours of laboratory per week. Four laboratory exams (two per term) - 40 marks; Two lecture exams, one at the end of term - 50 marks; Major laboratory report from project.

Session: Winter Day

BIOB31F Invertebrate Neurobiology / C. K. Govind

The course will examine in lectures, seminars and laboratory work, current topics on invertebrate neurobiology. These topics will revolve around the neural synaptic and muscular mechanisms underlying certain simple behaviours and their development especially in insects, crustaceans and molluscs.

One two-hour lecture per week; seminars and laboratory work to be arranged with class. Evaluation: seminars, essays, laboratory report, final examination.

Exclusion: (BIOC07)

Prerequisite: BIOA03

Session: Winter Day

JBCB35Y Introductory Biochemistry / G.R. Williams

An introductory course for students interested in the bio-medical sciences, designed to introduce students to a broad range of biochemical topics.

Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed.

The teaching method will consist of two one-hour lectures per week.

The text used is: *Biochemistry: the Molecular Basis of Cell Structure and Function* - by A.L. Lehninger, Worth Publishers Inc. Evaluation is based on three one-hour lecture exams; one two-hour Christmas exam and one final exam.

Exclusions: (BIOB35); (CHMB35)

Prerequisites: BIOA03; CHMB05

Session: Winter Day

JBCB36H Laboratory in Biochemistry

An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research.

The course will introduce students to practical and theoretical aspects of techniques used in biochemical research. Experiments will introduce a range of experimental procedures, including: Spectrophotometry; chromatography; radioisotopes; electrophoresis; protein fractionation; etc.

The teaching method will consist of three hours of laboratory work plus one hour of lecture each week. No text will be required but it is suggested that students obtain a copy of *Biochemistry* by A.L. Lehninger. Students will be evaluated on their performance in the laboratory, lab reports, and examination, (two-hour exam at Christmas and a final exam).

Exclusions: (BIOB36); (CHMB36)

Prerequisites: BIOA03; CHMB05

Corequisite: JBCB35

Session: Winter Day

BIOB41Y Physiology of Microorganisms / C. Nalewajko (Sparling), J. Silver

A lecture and laboratory course on the physiology of microorganisms (algae and bacteria). Emphasis will be placed on growth, energy transformations, nutritional and bio-synthetic pathways and metabolic versatility. The ecological significance of microorganisms will be discussed with special reference to microbial interactions, symbiotic relationships and geochemical activities.

Principles of microbial classification. Kinetics of growth in culture (batch cultures, chemostats and turbidistats) and in nature. Effects of light, temperature and nutrients on growth and on photosynthesis, respiration and other metabolic pathways. Organic carbon compounds as sources of carbon and energy. Microbial activity and cycles of phosphorus, nitrogen, carbon and trace elements in nature. Interaction between organisms: symbiosis, antagonism, competition. One two-hour lecture per week; three hours of laboratory work per week, involving about twelve research-style experiments. The course does not follow a single text; several current review and journal articles are used. The following is also helpful: W.D.F. Stewart (ed.) "Algal Physiology and Biochemistry". Laboratory reports (40%); two tests (60%).

Prerequisite: BIOB02

Session: Winter Day

BIOB43Y General Vertebrate Biology / A. Weatherley

An integrative course on the vertebrates emphasizing comparative, evolutionary and physiological approaches, and centering attention on the life cycle as the evolving and dynamic unit of study. Topics will include evolution, adaptation, diversity, zoogeography, comparative functional morphology and physiology; ethology, ecology and general biology; utilization, conservation, management. Course will consist of seminars, laboratories and some lectures on selected topics.

Prerequisites: BIOA03; BIOB22, (BIOB17, BIOB11, BIOB12, BIOB27 useful but not required)

Session: Winter Day

BIOB47Y Plant Ecology / J.C. Ritchie

A lecture course with laboratory and field work on the ecology of plants. This course is designed for students with some previous experience in ecology courses, and who are majoring in science with primary interests in environmental fields. It will have relevancy to such applied fields as management, impact assessment, forestry and resource ecology - in addition to its basic orientation. The primary emphasis is on plant community structure, distribution, environmental relations, dynamics and energetics. Some attention will be given to historical factors.

The nature of the plant community and its relation to eco-systems; a conspectus (brief) of plant community distributions and their general relations to the physical environment; the structure and analysis of plant communities, illustrated particularly by fieldwork in the local area to apply methods of description and analysis; quantitative methods of analysis and classification of plant communities; historical perspectives; energy flow in the plant community; nutrient and water cycles; applied aspects of plant communities - disturbance factors in technological development. Autecology - the nature of adaptations; ecotypic differentiation, ecological factors in species-level evolution. Lectures, fieldwork, laboratories. One three hour Christmas exam (25%); one laboratory and fieldwork report (25%); one final exam (50%).

Prerequisite: BIOB12

Session: Winter Day

BIOC01Y Supervised Study in Biology / Members of Faculty

An independent study course designed to permit intensive examination of the literature of a selected topic and/or laboratory or field project in Biology. Supervision of the work is arranged by mutual agreement between student and instructor.

Prerequisites: Satisfactory completion of fifteen full-course equivalents, of which at least four must be Biological Science B-level courses

Session: Winter

BIOC02Y Directed Research in Biology / Members of Faculty

Identical to BIOC01Y but not to be taken with the same faculty member.

Prerequisites: Completion of fifteen full-course equivalents, of which at least four must be Biological Science B-level courses

Session: Winter

BIOC09F Field Course in Aquatic Biology / C. Nalewajko (Sparling), D.D. Williams

The course will be given in late August or early September, before the beginning of term. Physical, chemical and biological aspects of various aquatic habitats will be studied intensively in a two week period of laboratory and field work, supplemented by lectures and discussion groups. Limited enrolment: 20.

The objectives are to gain practical research level experience in a whole ecosystem study of a lake and/or stream. During a fourteen day period (end of August-beginning of September) students will study a lake or stream in the vicinity of Toronto. An intensive sampling programme will include measurements of: physical and chemical parameters, nutrients, primary production, phytoplankton and macrophytes, zooplankton, benthos and fishes. Field and laboratory work will be supplemented by lectures and discussion groups. Bibliography: Golterman, H.L. *Methods for chemical analysis of fresh waters*. IBP Handbook No. 8 Blackwell Sci. Publ.; Vollenweider, R.A. (ed.) *Primary production in aquatic environments*. IBP Handbook No. 12. Blackwell Sci. Publ. 1969; Hynes, H.B.N. *Ecology of Running Waters*. U. of T. Press. Evaluation will be based on participation and on written reports.

Exclusion: (BIOB26)

Prerequisites: BIOA03; BIOB15; permission of instructors

Session: Winter Day

BIOC10S Phytoplankton - Methods and Techniques / C. Nalewajko (Sparling)

A seminar course, with laboratory and field work, on phytoplankton taxonomy and on practical aspects of sampling, identification and enumeration of phytoplankton.

Principles of phytoplankton taxonomy. Isolation of unialgal and axenic cultures of algae. Parameters for estimation of phytoplankton populations. Spatial heterogeneity, and seasonal succession of phytoplankton in (a) the Great Lakes; (b) a lake in Southern Ontario. One five hour session per week. Formal lectures are de-emphasized, while laboratory work and seminars are stressed. Reading material consists almost exclusively of papers from scientific journals. Most of these are available from the reserve room in the library. Evaluation: two individual seminars (25%); two group experiments (35%); one class project (40%). The objectives are to gain practical experience in phytoplankton ecology and in the sampling, identification and enumeration of planktonic algae. This is an advanced and graduate level course, for students with background in physiology and ecology of algae. Dr. M. Munawar, research scientist at Canada Centre for Inland Waters, Burlington, participates in this course.

Exclusion: (BIOB30)

Prerequisite: BIOB15

Session: Winter Day

BIOC12H Physiology and Biochemistry of Plant Growth and Development / G.F. Israelstam

A lecture and seminar course in plant growth and development. Emphasis will be placed on the mechanisms controlling growth and development. Limited enrolment: 12

The plant growth hormones and their mechanism of action, germination, dormancy, senescence, tropic responses, growth mechanisms, correlation effects, flowering, fruiting. Biological clock mechanisms. It is hoped to provide an in-depth understanding and to review critically the processes of growth and development in plants. It should acquaint the student with current literature on the subject, via "library research", providing a sound basis for possible future research in this field. Lectures and seminars. Evaluation will be based on essays and seminars.

Exclusion: (BIOB42H)

Prerequisite: BIOB06

Corequisite: JBCB35 recommended

Session: Winter Day

BIOC14F Ecological Methods / R. Boonstra

The course will deal with the biological application of statistics at a more advanced level. An introductory knowledge of statistics is assumed. The course is designed for students who hope to become graduate students, professional ecologists, or to work in related biological fields, such as forestry, fisheries, or wildlife.

Methods of data collection; methods of data analysis including such topics as sampling theory, population estimation, spatial distributions, experimental design, aerial censusing, and life table analysis; the computing facilities will be used as a tool in data analysis through the use of packaged programmes. Lectures, laboratories, and field work. Evaluation will be based on laboratory reports.

Prerequisites: BIOC12 and an introductory statistics course such as PSYB07, STAB52, GGRB02, ANTB43, ECOB11, or the permission of the instructor.

Session: Winter Day (labs. Evening.)

COURSES NOT OFFERED in 1980-81

BIOB13Y Plant Structure and Development

BIOB39B Biogeography

Prerequisite: BIOA03 or NSCA02

BIOC05S Advances in Developmental Biology

Prerequisites: At least one of (BIOB07), BIOB13, (BIOB16), BIOB22, BIOB23, BIOB27

BIOC11Y Quaternary Plant Ecology

Exclusion: (BIOB32)

Prerequisite: NSCA03; BIOB12

BIOC13S Environmental Biology of Fish Populations

Exclusion: (BIOB46)

Prerequisite: BIOB43

BIOC15S Field Trip to Madagascar

Prerequisite: BIOB39, or permission of instructor and Chairman

BIOC16S Marine Biology

Prerequisite: BIOB08

CANADIAN STUDIES

The College offers a large number of courses concerned with Canadian institutions, society, and culture, the pre-history and history of Canada, and its geography and physical environment. The College Programme in Canadian Studies encourages students to work in various disciplines and divisions of the College in order to understand the distinctive approaches of those disciplines to the study of Canadian life and culture.

College Programme in Canadian Studies

Supervisor: J.M.R. Margeson

Students must select nine full-course equivalents as follows:

(1) FREA01Y (or FREA00Y followed by FREA01Y)

(2) One of:

FREB36F/S	French-Canadian Novel to 1945
FREB37F/S	French-Canadian Novel since 1945
FREB38F/S	Theatre of French Canada
FREB43F/S	French Language in Canada

(3) HISB04Y Introduction to Canadian History

(4) One of the following:

ANTB16S	Cultures of Modern Canada
POLB50Y	Canadian Government and Politics
ENGB07Y	Canadian Literature in English
SOCB13Y*	Canadian Society

(5) Five and one-half further full-course equivalents (or six if ANTB16S is chosen from the preceding group) from the groups A, B and C listed below. The selection must include at least one full-course equivalent from each of the groups.

Group A

ENGB07Y	Canadian Literature in English
ENGB13F/S*	Drama in English Canada 1920-1970
ENGB25F/S*	The Canadian Short Story
ENGB26Y*	Canadian Poetry in English
ENGB27Y*	Canadian Fiction in English
FARB20Y	The Arts in Canada, 1670-present
FARB61Y	The Canadian Landscape
FARB62F/S	Recent Canadian Art
FREB01Y*	Language Practice
FREB36F/S	French-Canadian Novel to 1945
FREB37F/S*	French-Canadian Novel since 1945
FREB38F/S*	Theatre of French Canada
FREB43F/S*	French Language in Canada
FREC39F/S*	French-Canadian Poetry

Group B

ANTB16S	Cultures of Modern Canada
ANTB21Y*	North American Background to Canadian Native Peoples
ANTB28F*	Prehistoric Archeology of Canada
ANTB38F*	Prehistory of North America
HISB04Y	Introduction to Canadian History
HISB43Y*	Ontario History: the Nineteenth Century
HISB44F/S*	Canadian Religious Traditions
HISB45Y*	The Prairie Provinces 1850-1950
HISB46Y*	Atlantic Canada
HISB47Y*	The Canadian Left, 1867-present
HISC41F/S*	Old Huronia
HISC42F/S*	Church-State Relations in Canada
HISC43F/S*	Selected Topics in Canadian Religious History
HISC45Y*	History of Canadian Social, Political and Historical Thought
POLB50Y	Canadian Government and Politics
POLB51F/S*	Government and Politics in Ontario
POLB52F/S*	Canadian Constitutional Law
POLB53Y	Public Policies in Canada
POLB54F/S*	Intergovernmental Relations
POLB60Y	Public Administration
POLB81F/S*	Canadian Foreign Policy
POLB88Y	Urban Politics
POLC51F/S*	Topics in Canadian Government
POLC61F/S*	Policy Development
SOCB13Y*	Canadian Society
SOCB15Y*	Mass Media and Communications
SOCB20Y*	Ethnic and Race Relations
SOCB23Y*	Population
SOCC24F/S*	Changing Family Life in Canada
SOCC27F/S*	Social Class in Canadian Society

Group C

ECOA01Y	Introduction to Economics
ECOB05Y*	Price Theory
ECOB07Y*	Macroeconomic Theory and Policy
ECOB31F/S*	Economics of the Public Sector: Taxation
ECOB32F/S*	Economics of the Public Sector: Expenditure
ECOB45F/S*	Poverty and Income Distribution
ECOB62F/S*	International Economics: Trade Theory
ECOB81Y*	North American Economic History
COMC15Y*	Income Tax
GGRB01Y*	Geography of Resources
GGRB05Y*	Urban Geography
GGRB16Y*	Local Area Studies
GGRB17Y*	Rural Geography
GGRC04F/S*	Urbanization in Southern Ontario
GGRC14F/S*	Settlement of Upper Canada

GGRC17Y*	Landscape Interpretation
NSCA02Y	Introduction to the Biological Sciences
NSCA03Y	Ice Ages and Human Ecology
BIOB12Y*	Fundamentals of Ecology
BIOB15Y*	Aquatic Systems
BIOB39B*	Biogeography
BIOB47Y*	Plant Ecology
BIOC14F/S*	Ecological Methods

* - indicates a course for which there is a prerequisite or corequisite; students should check the main calendar entries for such information.

It should be noted that there are supervised reading courses at the C-level in many disciplines. If these are concerned with Canadian material, they may be included in the above listing of courses. However they normally require several prerequisites and approval from the discipline representative before they can be undertaken.

Not all B-level and C-level courses are offered every year. Students should check discipline entries in the calendar for detailed information.

Students who are planning to proceed to a Four-Year Degree are advised that it is anticipated that a Specialist Programme in Canadian Studies will be introduced in 1981. Transfer to the Specialist Programme will be possible for those who have begun in the College Programme.

CHEMISTRY

Staff members responsible for curriculum: P. Brumer, K. Henderson, R. McClelland, A. Walker

Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool through which to develop the resources of our contemporary society. The Chemistry Handbook, available at the Chemistry Office, outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice on undergraduate activities. A sound knowledge of the fundamental concepts of chemistry is useful to any student in the physical or life sciences.

The basic course in chemistry is CHMA02 which must be taken by those who wish to take further chemistry courses or who require chemistry for another science.

Completion of CHMA01 or CHMA02 permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry (CHMB01), Analytical Chemistry (CHMB02 or CHMB04, CHMB08), Organic Chemistry (CHMB05 or CHMB06) and Physical Chemistry (CHMB03). Thereafter, one can proceed to the following advanced-level courses: CHMC01 (Inorganic), CHMC02 (Physical), CHMC03 (Organic) and JBCB35 (Biochemistry).

For those who wish to enrol subsequently in St. George 400-series courses, completion of the following groups of courses, together with their corequisites and prerequisites, will ensure admission to the St. George courses indicated, provided that B standing or permission of the instructor is obtained.

To Enter St. George Series

420
430

440 (except 447)

Complete Scarborough Courses

CHMA01/A02; CHMB03; CHMC02
CHMA01/A02; CHMB01; CHMB02;
CHMC01
CHMA01/A02; CHMB05; CHMB03

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take (PHYA01) or PHYA02 or PHYA03 early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHMA02, MATA55 or MATA26 and (PHYA01) or PHYA02 or PHYA03.

Completion of a Specialist or Major Programme in Chemistry can lead directly to a wide spectrum of career opportunities in industry, research, teaching, and government. Students who are interested in these programmes are urged to consult with the supervisors early in their academic careers. These programmes are described below:

Specialist Programme in Chemistry

Supervisor: R.A. McClelland

This is the most general of the Specialist Programmes and provides the student with a firm basis in each of the chemistry subdisciplines.

Students should complete the following fifteen required courses:

- (1) In the first year of full-time study (or equivalent):
CHMA02Y General Chemistry
MATA26Y
or
MATA55Y Calculus
PHYA02Y Principles of Physics
or
PHYA03Y Physics for Life Sciences I
- (2) In the second and third years of full-time study (or equivalent):
CHMB01Y Inorganic Chemistry I
CHMB02Y Analytical Chemistry
CHMB03Y Physical Chemistry I
CHMB05Y Organic Chemistry
CHMC01Y Inorganic Chemistry II
CHMC02Y Physical Chemistry II
CHMC03Y Organic Chemistry II
MATB41F Techniques of the Calculus of Several Variables I
MATB42S Techniques of the Calculus of Several Variables II
or
MATB50F* Analysis
MATB55S Analysis II

* Students should note that if they are going to elect MATB50F and MATB55S they must take MATA40F, MATA55Y among their first five courses and MATA45S among their first ten courses.

- (3) In addition four more full-course equivalents in Chemistry, including at least three full-course equivalents selected from the CHMC40 - 50 series and the 400 level courses at the St. George Campus. At least one full-course equivalent must be taken at St. George from the 400 level. CHM313H (Crystal Chemistry) and CHM325H (Macromolecular Chemistry) or CHM314Y (Instrumental Analytical Chemistry).

Specialist Programme in Chemistry and Biochemistry

Supervisor: A.J. Kresge

This programme places greater emphasis on the biological aspects of chemistry and is offered for students who are primarily interested in chemistry but who also want to study the chemistry of living systems.

Students should complete the following fifteen courses:

- (1) In the first year of full-time study (or equivalent):
CHMA02Y General Chemistry
BIOA03Y Introductory Biology
MATA26Y
or
MATA55Y Calculus
PHYA02Y Principles of Physics
or
PHYA03Y Physics for the Life Sciences I
- (2) In the second and third years of full-time study (or equivalent):
CHMB01Y Inorganic Chemistry I
CHMB02Y Analytical Chemistry
CHMB03Y Physical Chemistry I
CHMB05Y Organic Chemistry I
JBCB35Y Introductory Biochemistry
JBCB36H Laboratory in Biochemistry
CHMC01Y
or
CHMC02Y Inorganic Chemistry II/Physical Chemistry II
CHMC03Y Organic Chemistry II
MATB41F Techniques of the Calculus of Several Variables I
or
MATB50F Analysis
MATB42S Techniques of the Calculus of Several Variables II
or
MATB55S Analysis II

- (3) In addition CHM447S (St. George) or BCH424S (St. George), one additional BCH400 series half-course (St. George) one and one-half additional CHM full-course equivalents selected from the C-level or 300 - 400 series (St. George), or 400 series BCH courses.

NOTE: In addition to the courses noted above an additional Biology course is recommended. BIOB19S, BIOB17Y, BIOB02Y, BIOB41Y, BIOB06Y are particularly appropriate for this programme.

Specialist Programme in Chemical Physics

Supervisor: P. Brumer

This programme offers students interested in both Chemistry and Physics the opportunity to combine their studies in the Specialist Programme. For the first two years the course of studies also satisfies the Chemistry Specialist Programme requirements.

Students should complete the following fifteen courses. They include two alternative mathematics sequences. One sequence provides a rigorous mathematical development, the alternative sequence emphasizes technique rather than rigour. Students starting in the MATA26Y sequence are urged to include MATA40F and MATA45S at some stage in their programme.

- (1) In the first year of full-time study (or equivalent):

CHMA02Y	General Chemistry
PHYA02Y	Principles of Physics
or	
PHYA03Y	Physics for Life Sciences I
MATA26Y	Calculus
or	
MATA55Y	
- (2) In the second and third years of full-time study (or equivalent) the following courses should be taken:

CHMB01Y	Inorganic Chemistry I
CHMB03Y	Physical Chemistry I
CHMB05Y	Organic Chemistry I
MATB41F	
and	
MATB42S	Calculus of Several Variables
or	
MATB50F	
and	
MATB55S	Analysis
CHMC02Y	Physical Chemistry II
PHYB01S	Electricity and Magnetism I
PHYB03F	Introductory Electronics
PHYB04F	Waves
PHYB08H	Intermediate Physics Laboratory
MATC51F	Applied Differential Equations
and	
JPMC42S	Advanced Dynamics
- (3) In the fourth year of full-time study (or equivalent), four full-course equivalents must be taken, including a CHM400 series course on the St. George Campus, at least one full-course equivalent from PHYC01F, PHYC03F, PHYC04S, PHYC05H, PHYC06F or a 300 series course on the St. George Campus and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

Students are urged to consult with the supervisor early in the Programme.

Major Programme in Chemistry

Supervisor: K.A. Henderson

This is the most general Major Programme offered. With its wide selection of options, it offers the possibility of obtaining an introduction to all of the subdisciplines of chemistry.

Students should complete the following eight courses:

- (1) In the first year of full time study or equivalent:

CHMA02Y	General Chemistry
MATA26Y	
or	
MATA22Y	
or	
MATA55Y	Calculus
PHYA02Y	Principles of Physics
or	
PHYA03Y	Physics for Life Science I
- (2) In the second and third years of full-time study (or equivalent) one of the following sets of options must be taken:
 - 1) "Inorganic/Organic"

CHMB05Y	Organic I
CHMB01Y	Inorganic I
CHMB02Y	Analytical I
CHMC01Y	Inorganic II
CHMC03Y	Organic II
 - 2) "Physical Organic"

CHMB05Y	Organic I
CHMC03Y	Organic II
CHMB03Y	Physical I
CHMC02Y	Physical II
MATB41F	Techniques of the Calculus of Several Variables I
MATB42S	Techniques of the Calculus of Several Variables II
 - 3) "Physical Inorganic"

CHMB03Y	Physical I
CHMB01Y	Inorganic I
CHMB02Y	Analytical
MATB41F	Techniques of the Calculus of Several Variables I
MATB42S	Techniques of the Calculus of Several Variables II
 - 4) "Chemistry"

CHMB05Y	Organic I
CHMB01Y	Inorganic I
CHMB02Y	Analytical
CHMB03Y	Physical I

 One C-level Chemistry course*

* Students should note that if they are going to select CHMC02Y, MATB41F and MATB42S or MATB50F and MATB55S are required as prerequisites.

Major Programme in Biochemistry

Supervisor: K.A. Henderson

This programme places a greater emphasis on the biological aspect of chemistry than does the general Chemistry Major Programme. It is offered for students who are primarily interested in chemistry but also want to study the chemistry of living systems.

Students should complete the following eight courses:

- (1) In the first year of full-time study (or equivalent):

CHMA02Y	General Chemistry
MATA22Y	
or	
MATA26Y	
MATA55Y	Calculus
BIOA03Y	Introductory Biology

(2) In the second and third years of full-time study (or equivalent):

CHMB05Y Organic Chemistry I
CHMC03Y Organic Chemistry II
JBCB35Y Introductory Biochemistry
JBCB36H Laboratory in Biochemistry
CHMB04S Analytical Chemistry I
or
BIOB19 Biology of Macromolecules

and one full-course equivalent selected from:

CHMB02Y Analytical Chemistry
CHMB03Y* Physical Chemistry I
BIOB02Y Basic Microbiology
BIOB17Y General and Comparative Physiology

* Students should note that if they are going to elect CHMB03Y, they must take PHYA02Y or PHYA03Y and MATA26 or MATA55 as a prerequisite.

CHMA02Y General Chemistry

Nuclear chemistry, atomic and molecular structure, ionic solids, bonding in organic compounds; states of matter and equations of state; thermo-chemistry; chemical equilibrium in the gas phase and in solutions; reaction kinetics. Primarily for students who plan to take two or three years of chemistry in a non-specialist science programme or as part of a pre-professional programme. Acceptable for Chemistry Specialist Programmes.

The course quantitatively describes the nature of gases, solids and solutions and develops ideas of bonding and structure in chemical compounds based on Lewis structures, VSEPR and simple molecular orbital theory. Reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, information topics such as introductory organic chemistry are used to round out the course. The course structure is two lectures per week and one four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre. The final grade is based on problem sets, tests, a mid-year examination, a final examination, and laboratory performance.

Exclusion: CHMA01

Prerequisites: Grade 13 Chemistry (or Grade 12 Chemistry and permission of instructor); Grade 13 Functions and Relations

Corequisites: MATA22 or MATA26 or MATA55

Session: Winter Day

CHMB01Y Inorganic Chemistry I / R.T. Hemmings

Atomic and molecular structure, including energy levels, bonding, electronegativity, lattice energies, heats of formation and hydration. Oxidation state diagrams. Chemistry of hydrides, halogens and selected topics in main group elements.

The further development of the ideas of structure and bonding introduced in CHMA01Y/CHMA02Y. The nature of bonding in covalent, ionic and coordination compounds. Thermodynamic and kinetic considerations in compound formation. The use of these concepts to rationalize the descriptive chemistry of the periodic table with special emphasis on the main group elements. The course structure is two lectures and one additional period per week to be used for supplementary or remedial work as required. The method of evaluation is tests, problem sets, and exams.

Prerequisites: CHMA01/CHMA02

Session: Winter Day

CHMB02Y Analytical Chemistry / R.T. Hemmings

Introduction to qualitative and quantitative analysis including gravimetric and volumetric analysis, electro-chemical and spectroscopic methods of analysis, separatory techniques.

To introduce the principles and methods of chemical analysis and to provide practical experience in the techniques employed in a chemistry laboratory.

The course consists of three main divisions: qualitative inorganic analysis by wet chemical methods, classical quantitative analysis and modern instrumental quantitative analysis. The classical methods employed include gravimetric and volumetric analyses. The instrumental section will introduce the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic and other separatory techniques. One hour of lectures and six hours of laboratory per week. The overall grade is a composite of laboratory performance, a final examination, and term tests and problems.

Prerequisites: CHMA01 or CHMA02

Exclusion: CHMB08

Other recommended courses: CHMB01

Session: Winter Day

CHMB03Y Physical Chemistry I / J.E. Dove and other Physical Chemistry faculty

Introduction to the kinetic theory of gases, quantum mechanics, theories of chemical kinetics and the laws and applications of thermodynamics.

The kinetic theory of gases provides the major emphasis for the first quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The first half ends with a treatment of chemical kinetics. In the second half of the course we resort to a thermodynamic description of chemical behaviour. The basic laws of thermodynamics and their applications to a wide variety of contemporary problems including spontaneous processes, chemical equilibria, phase equilibria, etc. are emphasized. The text is "Physical Chemistry" by P.W. Atkins. The course structure is three lectures a week and occasional tutorials. The method of evaluation is problem sets, tests, a mid-year examination, and a final examination.

Exclusion: PHYB09

Prerequisites: CHMA01 or CHMA02; MATA26 or MATA55; PHYA01 or PHYA02

Corequisites: MATB41 and MATB42 are strongly recommended but not required. See CHMC02 Physical Chemistry II, however.

Session: Winter Day

CHMB05Y Organic Chemistry I / T.T. Tidwell

The chemistry of the principal functional groups encountered in aliphatic and aromatic compounds, interpreted in terms of reactivity, stereochemistry and reaction mechanisms. An introduction to organic spectroscopy will also be given.

The fundamentals of organic chemistry, including aliphatic and aromatic chemistry and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrates. The course structure is two lectures per week and a four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre. The method of evaluation is lecture tests, mid-term and final examinations, plus a laboratory grade.

Exclusion: CHMB06

Prerequisites: CHMA01 or CHMA02

Session: Winter Day

CHMB08S Analytical Chemistry II / R.T. Hemmings

Introduction to the use of instrumentation in chemical analysis with emphasis on practical experience.

The objective is to provide practical experience in the use of routine analytical instruments and techniques. This course introduces the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographics and other separatory techniques. The course structure is one lecture and six hours of laboratory per week. The overall grade is a composite of laboratory performance, a final examination, term tests and problems.

Exclusion: CHMB02

Prerequisite: CHMB04

Session: Winter Day

JBCB35Y Introductory Biochemistry / G.R. Williams

An introductory course for students interested in the bio-medical sciences, designed to introduce students to a broad range of biochemical topics.

Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed.

The teaching method will consist of two one-hour lectures per week.

The text used is: *Biochemistry: the Molecular Basis of Cell Structure and Function* - by A.L. Lehninger, Worth Publishers Inc. Evaluation is based on three one-hour lecture exams; one two-hour Christmas exam and one final exam.

Exclusions: (BIOB35); (CHMB35)

Prerequisites: BIOA03; CHMB05

Session: Winter Day

JBCB36H Laboratory in Biochemistry

An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research.

The course will introduce students to practical and theoretical aspects of techniques used in biochemical research. Experiments will introduce a range of experimental procedures, including: Spectrophotometry; chromatography; radioisotopes; electrophoresis; protein fractionation; etc.

The teaching method will consist of three hours of laboratory work plus one hour of lecture each week. No text will be required but it is suggested that students obtain a copy of *Biochemistry* by A.L. Lehninger. Students will be evaluated on their performance in the laboratory, lab reports, and examination, (a two-hour exam at Christmas and a final exam).

Exclusions: (BIOB36); (CHMB36)

Prerequisites: BIOA03; CHMB05

Corequisite: JBCB35

Session: Winter Day

CHMC01Y Inorganic Chemistry II / A. Walker

A study of transition metal chemistry including energy level diagrams; valence bond, crystal field and molecular orbital theories of bonding; spectra of transition metal complexes; structure and coordination numbers; isomerism; inorganic reaction kinetics and organometallic chemistry.

The objective of this course is to understand the structure, bonding, spectra and reactions of transition metal complexes. The course structure is two hours of lecture per week; seven hours of laboratory per week to be taken in either the Fall or Spring term. The required text is "Inorganic Chemistry" 2nd edition by J.E. Huheey. The method of evaluation is problem sets 10%; two term tests 20%; laboratory 30%; final examination 40%.

Prerequisites: CHMB01, CHMB02 or CHMB04

Corequisites: CHMB08 (if only CHMB04 obtained).

Session: Lectures: Winter Day

Laboratory: Fall Term or Spring Term - One Day

CHMC02Y Physical Chemistry II / P. Brumer

Quantum mechanics and its application to theories of atomic and molecular structure, and spectroscopy. Basic principles of classical and quantum statistical mechanics, statistical thermodynamics, theory of chemical kinetics and photochemistry. The laboratory associated with this course illustrates much of this physical theory and introduces advanced experimental techniques.*

The first half of the course emphasizes quantum chemistry and the various techniques for the determination of energy levels in isolated atoms and molecules. The electronic and molecular structure of molecules are then examined through atomic and molecular spectroscopy. Intermolecular forces and modes of energy transfer between molecules ultimately lead into a study of classical and quantum statistical mechanics through which we interpret the behaviour of microscopic systems. Finally, the basis of modern reaction dynamics will be introduced. The course structure is lectures, tutorial and laboratory. The method of evaluation is 75% (tentatively) for two three-hour examinations, term paper, and problem sets and 25% for laboratory grade.

Prerequisites: CHMB03; MATB41 and MATB42, or MATB50 and MATB55

Session: Lectures: Winter Day

Laboratory: Spring Term - One Day

CHMC03Y Organic Chemistry II / R. McClelland

Introduction to the structure, synthesis, and reactivity of organic compounds of biological importance. Application of organic reactions, stereochemistry, mechanisms, and synthesis. The laboratory will emphasize the use of modern physical techniques, newer synthetic methods, and the chemistry of natural products. This course will serve as prerequisite for CHM447 (St. George) only with the consent of the instructor.

This course provides further experience in organic chemistry to those who have completed one course in the subject. Topics will include an in-depth treatment of organic synthesis, stereochemistry, conformational analysis and reaction mechanisms; an introduction to polymers, photochemistry, heterocycles, terpenes, carbohydrates, amino acids, nucleic acids and related biological macromolecules. The laboratory experiments are designed to complement the topics covered in lectures, with an emphasis on more advanced techniques. The course structure is two lectures, one tutorial and one laboratory every week. The method of evaluation is one-hour tests, a mid-year examination, a final examination, and a laboratory grade.

Exclusion: CHM347 (St. George)

Prerequisites: CHMB05 or CHMB06

Session: Winter Day

CHMC45Y Library Thesis / Members of the Chemistry faculty

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

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

Exclusion: CHMC47

Prerequisite: Permission of instructor

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

Session: Summer Day, Winter Day

CHMC46Y Introduction to Research / Members of the Chemistry faculty

Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 260 hours of effort.

The objective is to develop familiarity with some of the methods of modern chemical research. The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research. The grade is awarded on the quantity and quality of work and on an oral presentation.

Prerequisite: Permission of instructor

Corequisite: One of the advanced laboratory courses at St. George (CHM438F or CHM448F) (except for students undertaking a project in physical chemistry).

Other Recommended Courses: Normally only for students following one of the Chemistry Specialist Programmes.

Session: Summer Day, Winter Day

CHMC47F/S/H Library Thesis / Members of the Chemistry faculty

Similar to CHMC45 but representing 130 hours of work.

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

Exclusion: CHMC45

Prerequisite: Permission of instructor

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

Session: Summer Day, Winter Day

CHMC48S Special Topics in Inorganic Chemistry / A. Walker and other Inorganic Chemistry faculty

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

This course provides an introduction to current research areas and their theoretical and practical importance in inorganic chemistry. The emphasis will be on inorganic, but a good background in organic and physical chemistry is useful. The course structure is two lectures per week. The method of evaluation is to be decided. This can be in the form of a final examination, a seminar, an essay or a research proposal. The specific form to be followed will be announced at the beginning of the course.

Prerequisite: CHMC01

Session: Winter Day

CHMC49S Special Topics in Organic Chemistry / A.J. Kresge, R. McClelland

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

Topics of current interest in organic chemistry are studied. The course structure is two lectures per week. The method of evaluation is to be decided. This can be in the form of a final examination, an essay, a seminar, tests or a research proposal. The specific form to be followed will be announced at the beginning of the course.

Prerequisite: CHMC03

Session: Winter Day

CHMC50S Special Topics in Physical Chemistry / P. Brumer, J.E. Dove

A selection of topics in physical chemistry in which recent developments are emphasized.

The content of the course varies from year to year. Examples of topics recently treated include quantum chemistry and theories of elementary chemical reactions. The course structure is two lectures per week. The tentative method of evaluation is one major paper and seminar presentation and literature research assignments.

Prerequisite: CHMC02

Session: Winter Day

COURSES NOT OFFERED in 1980-81

CHMA01Y Principles of Chemistry

Exclusion: CHMA02

Prerequisites: Grade 13 Chemistry; Grade 13 Functions & Relations

Corequisites: MATA26 or MATA55; PHYA01 or PHYA02

CHMB06Y Organic Chemistry I

Exclusion: CHMB05

Prerequisites: CHMA01 or CHMA02

CHMC40F Kinetics and Mechanism of Chemical Reactions

Corequisites: CHMC01; CHMC02; CHMC03

CHMC41S Structure and Synthesis of Chemical Compounds

Corequisites: CHMC01; CHMC02; CHMC03

CLASSICAL STUDIES

Discipline Representative: A. Boddington

A study of the Greek and Roman world is crucial to an understanding of western civilization. It is also an excellent area for the student who wishes to follow a programme involving different, but related, disciplines. Courses in Classics and Greek and Roman History explore the cultural significance of the ancient world, its literature, its religion, its social and political history. In these courses all the source material is handled in translation. But language is an important ingredient in this cultural complex. And for those who wish to see this world at closer quarters, the courses in Greek and Latin provide an opportunity to learn the languages and to study the literary and historical texts in the original.

Students who wish to study the Greek or Latin language should choose the Major Programme in Classical Studies, Greek or Latin. This Programme combines the study of language with other courses on the Classical world. Other students may follow the Major Programme in Classical Civilization which will acquaint them with history, mythology, literature in translation and fine art in the Classical world.

Major Programme in Classical Civilization

Supervisor: J. Corbett

For the Major Programme in Classical Civilization students must complete eight full-course equivalents to be selected as follows:

- (1) CLAA01Y Classical Civilization
- (2) HUMA11Y Greek and Roman Mythology
- (3) CLAB01Y Greek and Roman Epic
or
CLAB02Y Greek and Roman Tragedy
- (4) One of
GRHB01Y Greek History from the Bronze Age to the Death of Alexander
GRHB02Y Greek and Roman History from the Death of Alexander to the Gracchi
GRHB03Y Roman History from the Gracchi to Nero
- (5) One of GRHB25Y - 29Y
- (6) Three additional full-course equivalents from:
CLA, GRH, GRK, LAT, HUMB22F/S, B23F/S, B24F/S, B25F/S, B34F/S, B36Y, B61F/S,
PHLB40F, PHLB41S, PHLB42F, PHLB43S; FARA10F/S, FARB01F/S, FARB04F/S,
FARB05F/S. The selection of these must be approved by the Supervisor.

Major Programme in Classical Studies

Supervisor: M.E. Irwin (Greek)/I.R. McDonald (Latin)

The Major Programme in Classical Studies consists of seven full-course equivalents and may be completed in one of the following ways:

Classical Studies (Latin):

- (1) CLAA01Y Classical Civilization
- (2) Three full-course equivalents in Latin
- (3) GRHB03Y Roman History from the Gracchi to Nero
- (4) two further full-course equivalents to be selected in consultation with the Supervisor from:
Latin;
GRHB02Y, B24F/S, B28Y, B29Y;
HISB61Y;
CLAB01Y, B02Y, B21Y, B23F/S;
HUMA11Y, B22F/S, B24F/S, B35F/S, B36Y

Classical Studies (Greek)

- (1) CLAA01Y Classical Civilization
- (2) Three full-course equivalents in Greek*
- (3) GRHB01Y Greek History from the Bronze Age to the Death of Alexander
- (4) Two further full-course equivalents to be selected in consultation with the Supervisor from:
Greek;
CLAB01Y, B02Y;
FARA10F/S, B01F/S, B04F, B05S;
GRHB24F/S, B25Y, B26Y;
HUMA11Y, B22F/S, B25F/S, B34F/S, B35F/S, B36Y, B61F/S;
PHLB40F, B41S, B42F, B43S
* Excluding GRKB10Y and B20Y

Students who wish to include Latin or Greek as a component in the Language and Literature Specialist Programme must complete seven full-course equivalents as follows:

- (1) Four full course equivalents in LAT or four full course equivalents in GRK
- (2) CLAB01Y or CLAB02Y
- (3) Two further full-course equivalents from courses in CLA, GRK, HUM, LAT to be selected in consultation with the Supervisor.

See also the Specialist Programme in Language and Literature.

CLAA01Y Classical Civilization / A. Boddington

An introduction to the Greco-Roman World: the achievements of the Greeks and Romans in literature, philosophy, science and government.

These achievements will be set in an historical framework to enable the evolution of ideas to be traced. The course will not merely be a survey course. Provision has been made as well for study in greater depth in carefully selected areas, with readings, in translation, from the classical authors. Students will be encouraged to choose their own topics for the two term papers which will require research in some depth.

The class will meet three times a week, mainly for lecture presentations, with a seminar every other week in the third hour. Evaluation is based chiefly on two papers (one per term) and an examination (worth 35% of the final mark).

Session: Winter Day

CLAB01Y Greek and Roman Epic / I.R. McDonald

The epic genre in the classical world: its genesis in myth and history; its cultural and artistic determinants; its place in the history of ideas and in the growth of the Western literary tradition. Close reading of Homer's *Iliad* and *Odyssey*, Virgil's *Aeneid*, Lucan's *Pharsalia* (in translation); reference also to other works and their contribution to the development of the genre.

All study of Western Literature starts with Homer. The aim of this course is to make you familiar with the texts of Homer and his successors in the epic genre, so that you may learn to appreciate them for themselves within their own cultural and historical context and begin to understand the nature of their influence on later literature. If you wish to do any reading in advance, you might start with some of the following: Homer, *The Iliad* (transl. R. Lattimore) U of Chicago Press p.b.; Homer, *The Odyssey* (transl. E. V. Rieu) Penguin Classics p.b.; E. T. Owen, *The Story of the Iliad*, Clarke Irwin 1964 p.b.; G.S. Kirk, *The Songs of Homer*, Cambridge Univ. Press 1962.

Classes will be an informal mixture of lectures and seminars. Methods of evaluation will include two essays, tests, and a final examination.

Session: Winter Day

GRHB01Y Greek History from the Bronze Age to the Death of Alexander / A. Boddington

An introduction to political, economic, social and cultural aspects of Greek history.

The period will be studied, so far as possible, from the Greek authors (in translation) and attention will be given to the discoveries and method of archaeology. The course should be of interest to students of Classics, History, Archaeology, Anthropology and Political Science.

Topics will include: the Bronze Age of Greece and Minoan Crete, with some consideration of why and how those cultures rose and fell; the cultural and artistic "renaissance" of the Greek world; political developments, with special reference to the nature and development of Athenian Democracy and the strange society of Sparta; the Athenian Empire and its relationship to Athenian Democracy; the rise of Macedonia and the conquests of Alexander. To consider how the Greeks viewed their own history, we shall study the Persian Wars as seen through the eyes of Herodotus, and the Peloponnesian War as interpreted by Thucydides; and at all times we shall endeavour to pay the Greeks the compliment of trying to see them as they really were and not as we imagine them.

Session: Winter Evening

GRHB02Y Greek and Roman History from the Death of Alexander to the Gracchi / J. Corbett

A study of the emergence and evolution of the Hellenistic Monarchies after the death of Alexander, the development of Rome as a "World Power", and the interaction of the Greek and Roman Worlds.

This course introduces the student to an important period of Classical History in which the Mediterranean world evolved from one of individual city states to the single "world empire" which was the cradle of so many systems characteristic of the West, especially Christianity. There will be one two-hour lecture, and one one-hour tutorial per week. All the tutorials will be led by the lecturer. The lectures will give the necessary background information and some analysis, raising questions to be considered in the tutorials. Questions and discussions will be welcomed in lectures as well as tutorials. Students will be encouraged to consult with me about their reading and essays. Evaluation: essays (one per term) 50%; oral presentations (one per term) 15%; final written examination 35%. Note: A detailed Course Outline and Bibliography are available on request.

Session: Winter Day

GRHB25Y Studies in Greek History I (c. 800-300 B.C.) / A. Boddington

Politics and economics in Greek city states, seen, as far as possible, through the eyes of the Greeks themselves.

A study of the period covered by B01Y, in which we look at people, places and ideas at a more specialized level. Students will be expected to study the source material in some depth, in translation. Choice of term paper topics will depend on the interests and qualifications of the student. The class will hold two seminar meetings a week. Evaluation is based on two major papers, a final examination on topics covered in class, and two short assignments.

Prerequisite: GRHB01, or any related GRH, CLA or HUM course

Session: Winter Day

GRHB27Y Studies in Roman History: Pompeii / J. Corbett

The city is central to western society; our urban institutions have their origins in the European past. This course should introduce the student of urban society not only to the city in the Greco-Roman world but also to the comparative study of urban institutions in pre-industrial societies the world over, both past and present. It is intended for students who have some background (not necessarily formal) in urban studies; it does not require a knowledge of ancient history. Emphasis will be placed on the study of Pompeii from primary source materials. Pompeii is a typical small Greco-Roman city; but it is also uniquely well preserved for our examination. The structure of the course will be determined by the students. A considerable degree of personal initiative will be expected.

Session: Winter Day

GRKA01Y Introductory Greek / J.N. Grant

The bases of the language, with an emphasis on reading.

This course is for students who wish to acquire a basic reading knowledge of ancient Greek. The class meets four hours a week. Evaluation will be based on regular class tests and a final examination. Text: *Reading Greek* (JACT Cambridge, 1978).

Session: Winter Day

GRKA10F Introduction to Greek Authors / M.E. Irwin

A rapid reading of simple Greek texts combined with a consolidation of grammar.

This course is intended to help students review classical Greek grammar in preparation for reading texts.

There will be three one-hour meetings weekly, one given to review of syntax and forms and the other two spent in reading selections from ancient authors. There will be a test during the term and a final examination. Text: *Reading Greek* (JACT Cambridge, 1978).

Prerequisite: Grade XIII Greek or GRKA01

Session: Winter Day

GRKB01S Plato: Apology / M.E. Irwin

A study of *Apology*, Plato's account of Socrates' defense against the charges of religious non-conformity and of corrupting the young. The text will be read in Greek. In addition to the reading of the text, the political, legal and social situation in Athens at the time of the trial will be considered. The course will include exercises to assist the student in further study of the Greek language.

There will be three one-hour meetings weekly in which students will be expected to participate actively by translating and discussing passages of the text.

A test during the term, a short essay and a final examination will be the means of evaluating this course.

Prerequisite: GRKA10

Session: Winter Day

GRKB10Y Intermediate Modern Greek / G. Papadatos

Study of the Modern Greek language, primarily in its written form, with the goal of preparing the student for the reading of Modern Greek literature.

Prerequisite: GRK150Y (St. George) unless the student is a native speaker of the language

Session: Winter Day

GRKB20Y Modern Greek Literature / G. Papadatos and S. Mittler

Prose and poetry of nineteenth and twentieth century Greece. A survey of literature since Independence.

A chronological study of the development of Modern Greek poetry and prose since Independence in 1821. The work of a number of writers, among them Solomos, Makriyannis, Palamas, Kavafis, Kazantzakis, Seferis, Ritsos and Elytis will be examined in the light of the Ionian School, the Generation of 1880, that of 1930, the Post-War Period and, finally, the contemporary modern Greek literary scene.

The course will be conducted in Modern Greek.

Prerequisite: GRK245Y (St. George) or GRKB10Y or permission of instructor.

Session: Winter Day

GRKB30F-B34F**GRKB35S-B39S****GRKB40Y Supervised Reading / Co-ordinator: M.E. Irwin**

Reading of texts in Greek chosen by consultation between students and faculty.

Students who wish to enter the Greek Supervised Reading Programme should enrol in any of the above courses. They should then contact the co-ordinator and discuss what they want to read and with whom. (This will depend to some extent on time available). The student will meet regularly with the tutor - the exact arrangements depending on the difficulty of the chosen text and the level of the student's ability. Problems in the text will be discussed as well as the literary qualities and cultural context of the work being studied.

Prerequisite: GRKB01 or demonstrated competence in reading classical Greek

Session: Winter Day

LATA01Y Introductory Latin / I.R. McDonald

The purpose of this course is to acquaint the student with the essentials of the Latin language. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature.

The course aims to bring the student with no previous knowledge of Latin to a sound basic reading knowledge of prose and poetry. Some time will be given to helping him see the language in its cultural and historical context, and the impact of Latin on English.

Classes are designed to introduce fundamentals of vocabulary, grammar, and syntax, but this routine will be varied occasionally to allow for lectures, discussions, and slides to increase awareness of the cultural milieu.

The text is F.M. Wheelock, *Latin. An Introductory Course Based on Ancient Authors*. Evaluation is by final examination (50%), short quizzes and exercises (50%).

Session: Winter Day

LATA10F Introduction to Latin Authors / I.R. McDonald

Rapid reading of simple Latin texts, both prose and verse, together with a survey of Roman literature and a consolidation of grammar.

This course serves as an introduction to university-level Latin studies for students with Grade XIII Latin and as a stepping stone to the reading of Latin authors for those who have begun the study of Latin in the College.

Texts to be read will be selected from a wide range of styles and periods to give the student a good general view of the scope and variety of Latin literature.

Evaluation will be by final examination and short exercises and quizzes.

Prerequisite: LATA01 or Grade 13 Latin

Session: Winter Day

LATB01S Catullus / J.N. Grant

A selection of the works of Catullus will be read. The influences which affect Catullus, and his contribution to Latin poetry will be considered.

The material studied will be primarily the love poetry of Catullus but some of the invective works and one of the "long poems" will also be examined. After some introductory lectures most of the classes will be devoted to translating and studying individual poems in the light of critical literature. Students will be expected to participate in these classes. The text used will be the edition of Kenneth Quinn (Macmillan, 1970).

Evaluation will be based on one class test, one essay, sight translation and final examination.

Prerequisite: LATA10

Session: Winter Day

LATB30F-33F**LATB35S-39S****LATB40Y Supervised Reading / Co-ordinator: I.R. McDonald**

Students who wish to take Latin Supervised Reading courses should enrol in any of the above courses (F/S/Y as appropriate). They should then contact the co-ordinator and discuss with him what they want to read and with whom. The student will be expected to read much of the material on his own, and to meet with his tutor once a week, normally for a two-hour period; exact arrangements will depend on the nature of the text and level of ability of the student. The purpose of these sessions is to sort out any problems of comprehension, and to discuss the literary qualities and cultural context of the work being read.

Prerequisites: LATB01 or LATB02

Session: Winter Day

LATC01F-02S Independent Studies / Co-ordinator: I.R. McDonald

These courses are designed to widen students' knowledge of Latin literature beyond those works and authors which have been studied in earlier courses.

A student will be expected to read considerably more than is required in the Supervised Reading courses. The reading may be confined to one author or grouped around a topic or genre. A student who registers for both C01F and C02S may be permitted to present a major essay, on a topic approved by the faculty in Classics, as the work required for C02S. Students will meet regularly throughout the term with a member of the faculty.

N.B. A student interested in Independent Studies should meet with the co-ordinator before enrolling, preferably in the Spring of the preceding year.

Prerequisites: At least two of LATB21, LATB22, LATB30-31, LATB35-39; permission of instructor.

Session: Winter Day

CLASSICS and RELATED COURSES NOT OFFERED in 1980-81:

CLAB02Y Greek and Roman Tragedy

CLAB21Y Greek and Roman Religion

CLAB23F Christianity in the Greco-Roman World

GRHB03Y Roman History from the Gracchi to Nero

GRHB24S Ancient Historiography

GRHB26Y Studies in Greek History II (c. 800-300 B.C.)

Prerequisite: GRHB01, or any related GRH, CLA or HUM course

GRHB28Y Studies in Roman History

GRHB29Y Studies in Roman History: Roman Britain

Prerequisite: GRHB03 or any other GRH course.

COMMERCE**Assistant Chairman:**

Commerce courses are designed both for those students who intend to specialize in the area and for those who wish to take one or more Commerce courses to supplement their studies in other areas. Courses in Commerce should help students to develop the analytical skills needed to diagnose and solve problems in business and government.

Students may take Commerce courses as part of a three- or four- year degree (normally a B.A. degree) and may, if they wish, work towards completing the Specialist Programme in Commerce and Economics or the Major Programme in Commerce. Graduates of a fifteen or twenty course degree programme may be eligible for admission to graduate study in business or may seek employment in accountancy or pursue other industrial, commercial or governmental careers.

The College does not offer the Bachelor of Commerce (B. Comm.) degree. Students who wish to obtain the B. Comm. must either enter or transfer to another college of the University (at the St. George or Erindale campus). Because of differences in course and degree requirements, such transfers should take place as early as possible in a student's career. Since many Commerce courses at the St. George Campus are subject to limits on enrolment, Scarborough College students should not assume that they will be able to take Commerce courses at that campus where a comparable course is not available at Scarborough.

Admission to Graduate Schools for study towards the Master of Business Administration (MBA) degree is open to all qualified graduates (fifteen or twenty course degrees) regardless of the subjects or disciplines studied at the undergraduate level. Students contemplating graduate study would be well advised to include some courses in Commerce in their undergraduate programme. They should also consider strengthening their preparation for graduate work by taking courses in such areas as Economics, Mathematics, Computer Science, Sociology, Psychology and Anthropology.

Limited enrolment: Because of pressures of demand for places, it has been necessary to place enrolment limits on many Commerce courses. Under present College rules, preference is given to students with academic seniority, that is, with the greatest number of full course equivalents completed at the end of the previous winter session. Students who delay submitting their course selection forms until the end of the summer may find many limited enrolment courses have been closed.

Prerequisites: Prerequisites will be strictly enforced for all Commerce courses. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to those courses.

In view of the many academic and career options available in the Commerce area, students are encouraged to seek the advice of the Supervisor.

Specialist Programme in Commerce and Economics

Supervisor:

The Specialist Programme in Commerce and Economics is designed to provide the student with a foundation for a managerial career in commerce, industry or government or for further study in such fields as accounting, economics, law and management.

The Programme requires completion of sixteen and one-half full course equivalents as follows:

- (1) Six full-course equivalents in Commerce including COMA01, COMB01, JCSB27, JCEB72, JCEB73, JCEC02; (See Note A)
- (2) Five full-course equivalents in Economics including ECOA01, ECOB03, ECOB07 and ECOB11;
- (3) A course in Calculus (MATA22 or MATA26 or MATA55);
- (4) A half-course in Computer Science (CSCA56 or CSCA58);
- (5) Four additional full-course equivalents from courses other than COM, ECO and JCE.

Note A: JCE courses may be counted as either Commerce courses or Economics courses. If JCE courses are used to meet the Economics requirements, other COM courses must be substituted in meeting the Commerce requirements.

Major Programme In Commerce

Supervisor:

The Major Programme in Commerce is designed to provide the student with an introduction to the field that can be used as the basis for graduate or professional studies or as a complement to undergraduate studies in related areas.

The Programme requires completion of eight full courses including:

- (1) Five full-course equivalents in COM or JCE courses including COMA01 and COMB01 (see Note B)
- (2) Two full-course equivalents in ECO courses including ECOA01
- (3) JCSB27Y

Note B: The above requirements do not include prerequisites that relate to certain advanced courses. Prerequisite courses must be completed in addition to the above requirements.

Careers in Accountancy

The College offers a significant number of courses which have been recognised as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Registered Industrial Accountants. A brochure describing the various programmes and listing the recognised Scarborough College courses is available from the Student Services Office (284-3292).

COMA01Y Financial Accounting / A. Stawinoga (Coordinator)

Basic theory and concepts which underlie the preparation of financial statements; development of double entry theory and practice; the accounting cycle from the recording of transactions in double entry form to the year-end entries and the preparation of financial statements; problems of measuring income.

The course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying those techniques. Evaluation is based on weekly homework assignments (10% of the final mark) and on three mid-term tests and a final examination.

Session: Winter Day, Winter Evening, Summer Evening

COMB01Y Management Accounting

An introduction to cost accounting with emphasis on the use of accounting information in managerial decision-making. Topics include types of cost accounting systems, patterns of cost behaviour, problems of cost determination, allocation, budgeting and control.

Evaluation is based on weekly homework assignments (10% of the final mark) and on three mid-term tests and a final examination.

Prerequisite: COMA01 and ECOA01

Session: Winter Day, Winter Evening, Summer Evening

JCSB27Y Organizational Behaviour / J. Hannigan

Examines social factors in administration, the structuring of intra-organizational and interorganizational relationships, and the distribution of power and dependency in society. Empirical studies used in the first term will focus on single organizations. Those used in the second term will focus on industries and other inter-dependent organizations.

Exclusions: (COMB27) (SOCB27)

Prerequisites: One previous course in Sociology, Commerce, Economics, or Political Science

Session: Winter Day, Winter Evening, Summer Evening

JCEB54S Industrial Relations

A study of industrial relations in the Canadian setting. Topics include industrial relations theory and systems; history, philosophy and structure of unionism, labour law, and collective bargaining. Limited enrolment 80.

Evaluation will be based on a mid-term test and a final examination.

Prerequisite: ECOA01

Session: Winter Evening

JCEB72F Analysis for Decision Making I

A course in the analytical formulation and solution of decision problems. Linear decision models, and especially linear programming, are the tools primarily discussed and employed.

Exclusions: (COMB26), (ECOB71)

Prerequisites: CSCA56 OR CSCA58, MATA40 OR MATA22 OR MATA26 OR MATA55, ECOB03

Corequisite: ECOB11 or GGRB02 or MATB57

Session: Winter Day

JCEB73S Analysis for Decision Making II

A continuation of JCEB72F with less emphasis on deterministic, linear models. Course content will be determined by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing.

Exclusions: (COMB26), (ECOB71)

Prerequisite: JCEB72

Session: Winter Day

COMC01Y Accounting Theory

An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation including the problem of changing price levels. Limited enrolment: 60

The course builds extensively on the material in COMA01 and, to a lesser extent, COMB01. Potential students should review thoroughly the basic accounting model, preparation of financial statements and accounting principles prior to the start of the course. Weekly homework problems, term tests, a final examination and class participation will all be evaluated. A number of short quizzes will also be given.

Prerequisite: COMB01

Session: Winter Day

JCEC02Y Corporation Finance

An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to discover the social and legal significance of the modern corporation. Limited enrolment 60.

Evaluation will be based on homework assignments, a mid-course test and a final examination.

Prerequisites: COMB01; ECOB03; ECOB11

Session: Winter Day

COMC03Y Marketing / T.J. Mitchell

Marketing management is concerned with those business decisions directly involved in the sale of goods and services. The course examines the theory of consumer behaviour and sources of market information as well as the traditional areas of product, price, promotion and distribution. Limited enrolment: 60

A number of cases will be assigned for class discussion and written analysis. These cases, a term project and mid-course and final examinations constitute the major elements of evaluation in the course.

Prerequisite: COMB01

Session: Winter Day

COMC15Y Income Tax / R.C. Gibson

An examination of the broad principles of federal income tax in Canada and of the detailed provisions involved in the taxation of business enterprises. Limited enrolment: 60

Evaluation will be based on a number of homework assignments, a mid-course test and a final examination.

Prerequisite: Completion of at least ten courses including COMA01 and ECOA01

Session: Winter Evening

COMC30Y The Legal Environment of Business / L.A. Torkin, J. Feldman

An intensive examination of those aspects of the law that most directly affect the operations of a business. Limited enrolment: 60

Evaluation will be based on a number of homework assignments, a mid-course test and a final examination.

Prerequisites: Completion of at least ten courses including COMA01 and ECOA01

Session: Winter Day

JCEC40S Public Policy Towards Business / R. Saunders

A study of various aspects of government policy that relate to the conduct of firms. Topics covered will include regulation in theory and practice, the political economy of tariff determination and the effects of tariffs on Canadian industrial structure, competition policy and public ownership.

Prerequisite: ECOB41

Session: Winter Day

COMPUTER SCIENCE

Discipline Representative: W. Enright

Computer Science is the study of the use of computers to process information. The form of this information may vary widely, from the businessman's records, to the scientist's experimental results, to the linguist's texts. One of the fundamental concepts in computer science is the algorithm - a list of instructions that specify the steps required to solve a problem. Computer science is concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Closely related is the development of tools to foster these goals: programming languages for expressing algorithms, operating systems to manage the resources of a computer, and various mathematical and statistical techniques to study the correctness and efficiency of algorithms. Numerical analysis, data management systems, and artificial intelligence are concerned with the applications of computers to specific problem areas. Course offerings are intended to serve a wide variety of students.

The Specialist Programme in Computer Science is designed to provide a student with the knowledge and skills needed to hold professional positions in the computer field and to prepare him for graduate study. The Specialist Programme in Computer Science for Data Management is intended for students who plan to pursue a career in information systems development, an area of increasing importance to business, industry and government. From this Programme a student may continue with graduate Study in Computer Science. If certain optional courses in Commerce, are taken in the third and fourth years, a student in this Programme may qualify for advanced standing toward the MBA degree.

The Major Programme in Computer Science provides an introduction to some of the main areas in the field, and provides for example a good background for students anticipating a career in secondary school teaching.

Students who wish to study computing primarily in order to use the computer in their own specialties should begin with CSCA56 and CSCA66. JMCC51 is then available, as are CSC208, 218 and 300, given on the St. George campus.

Students should also look at JMCC31 and JMCC51 which are additional Computer Science courses.

Specialist Programme in Computer Science

Supervisor: W. Enright

There are ten and a half courses required for the Specialist Programme in Computer Science. Note that the courses need not be taken in exactly the indicated order, but if an alternate ordering is adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided.

In the first year of full-time study (or equivalent):

CSCA58F, CSCA68S, MATA26/MATA55, MATA40F, MATA45S

In the second year of full-time study (or equivalent):

CSCB68F, CSCB73F, CSCB28S, (MATB41F and MATB42S) or (MATB50F and MATB55S)

In the third year of full-time study (or equivalent):

CSCC34F, JMCC51S, MATC44F, STAB52F, STAB57S, MATC51F or MATC60F or MATB40F

In the third or fourth year of full-time study (or equivalent):

Two full-course equivalents to be chosen from the following options.

(Note that only CSCC44F and CSCC64S are available at Scarborough; the remaining courses must be completed at the St. George campus).

Any two of CSC438F, 441S, 446S, 451F, CSCC48S/CSC448S, CSCC64S (including at least one of 438F, CSCC48S/CSC448S and CSCC64S), and any two of CSCC44F, 434F, 444S, 458S, 468F, 474S, 484F.

In completing the Programme a student is strongly encouraged not to include any Computer Science courses other than those required above. It is also desirable to have a sequence of approximately four related half-courses in a subject area in which computers can be usefully applied.

Specialist Programme in Computer Science for Data Management

Supervisor: W. Enright

There are thirteen courses required for the Specialist Programme in Computer Science for Data Management. The courses may be taken in a different order, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

- (1) In the first year of full-time study (or equivalent):
CSCA58F, CSCA68S, MATA26 or (MATA55 and MATA40F), COMA01, ECOA01
MATA40F will be required later in the programme if the option MATA26 is chosen.
- (2) In the second year of full-time study (or equivalent):
CSCB68F, CSCB73F, CSCB28S, ECOB03Y/ECOB07Y, (MATB41F and MATB42S)/
(MATB50F and MATB55S).
- (3) In the third year of full-time study (or equivalent):
CSCC34F, COMB01, MATA40F, STAB52F, STAB57S
- (4) In the third or fourth year of full-time study (or equivalent):
Two and a half full-course equivalents to be chosen from the following options:
(Note that JMCC51S, MATC44F, CSCC44F and CSCC64S are offered at Scarborough, while the remaining courses must be completed at the St. George campus).
Any two of MATC44F, CSC448S/CSCC48S, JMCC51S, CSCC64S, CSC438F and any three of
CSCC44F, 434F, 444S, 458S, 468F, 474S, 484F.

In completing the Programme, a student is encouraged not to include any Computer Science courses other than those required above.

Major Programme in Computer Science

Supervisor: W. Enright

Seven and a half full-course equivalents are required. The courses need not be taken in the order given, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

In the first year of full-time study (or equivalent):

CSCA58F, CSCA68S, MATA26Y/MATA55Y, MATA40F

In the second year of full-time study (or equivalent):

CSCB68F, CSCB73F, (MATB41F and MATB42S)/(MATB50F and MATB55S)

In the third or fourth years of full-time study (or equivalent):

A Total of six half-courses chosen as follows:

- (i) at least two of CSCB28S, CSCC34F, CSCC44F, CSC434F, CSC444S, CSC458S, CSC468F, CSC474S, CSC484F
- (ii) at least two of MATC44F, JMCC51S, CSCC64S, CSC438F, CSC448S, CSC441S, CSC446S, CSC451F, CSC478S
- (iii) at most two of CSC208F/S, CSC218F, CSC300F/S

CSCA56F/S/H Computer Programming / Members of Computer Science faculty

Introduction to algorithms, computer organization and computer programming. Emphasis is on learning to programme in a high level language. Various applications of computers will be discussed. (This course is intended for students who want to learn programming for use in their own area of interest.)

This course provides an introduction to computing. The purpose of the course is to introduce the student to algorithms and to acquaint him with the capabilities and limitations of the computer. The course can be roughly divided into two six-week sections. The first six weeks are spent learning PL/I as an example of a programming language. This language is introduced as a tool for the precise specification of an algorithm. Its dual purpose, to communicate algorithms both to machines and to other people, is emphasized. In the second six weeks sample problems from several application areas are studied to demonstrate the variety of problems that are solved with the aid of the computers. The method of evaluation is a term test, a final exam, five assignments and several tutorial quizzes.

Exclusion: CSCA58

Prerequisite: One grade 13 course in Mathematics

Session: Winter Day, Winter Evening, Summer Evening

CSCA58F Introduction to Computing / Members of Computer Science faculty

The specification and formulation of algorithms. Introduction to computer organization and assembly language. Programming in a high-level language such as PL/C. Structured programming. Elementary applications.

The PL/C programming language is used as a vehicle for the formulation and implementation of correct, lucid, and efficient algorithms for digital computers. Applications of programming techniques are considered. The course structure is two hours of lectures and two hours of tutorials per week. The method of evaluation is mid-term and final examinations, and five programming assignments.

Exclusion: CSCA56

Prerequisites: Grade 13 Functions and Relations, or Grade 13 Calculus

Corequisites: MATA26 or MATA40 or MATA55

Session: Winter Day

CSCA66S Programming Applications / Members of Computer Science faculty

A continuation of CSCA56. Practical approaches to solving problems involving data structures, non-numerical applications (graph theory, game theory), data processing, and numerical computations. The course also covers recursive programming.

This course is a continuation of CSCA56 and it covers sample problems from several areas. Topics covered in this course include data structures, recursion, data processing, graph theory (game theory), and numerical computations. More emphasis is put on data structures and recursion. Three weeks are spent on data structures where structures such as linked lists and trees are studied. The rest of the course is evenly distributed between the other topics. The method of evaluation is a one hour mid-term, a final examination, four or five assignments and bi-weekly tutorial quizzes.

Exclusion: CSCA68

Prerequisites: CSCA56 or CSCA58

Session: Winter Day

CSCA68S Problem Solving With Computers / Members of Computer Science faculty

A continuation of CSCA58. The application of computers to various numerical and non-numerical problems. Topics will include numerical methods, simulations, graph theory, data processing, and the validity of computer models.

Specific topics include: basic data structures; lists, stacks, queues, trees, graphs. Recursive programming. Graph theory algorithms. Sorting and searching algorithms. Numerical methods. The course structure is two hours of lectures, and a two hour tutorial per week. The method of evaluation is mid-term and final exams, and about four programming exercises.

Exclusion: CSCA66

Prerequisites: CSCA56 or CSCA58 with permission of instructor

Session: Winter Day

CSCB28S Programming Techniques for Data Processing

This course is intended to examine the role of the computer in the business environment. The emphasis will be on the design methodology of business computer systems, rather than particular applications.

Specific topics include: COBOL programming; the modular approach to programme design including: decision tables, if applicable programming and table driven logic; sequential file processing including: data validation, external sorting, generalised file processing systems. Some applications will be examined and an overview of the role of mathematical modeling in the business environment will be given. The course structure is lectures and tutorials. The method of evaluation is one mid-term and one final exam, three programming assignments and three written assignments.

Prerequisite: CSCA68

Session: Winter Day

CSCB68F Programming Languages and Their Applications

Programming languages and applications. The syntax and semantics of various programming languages, including both algebraic and symbol manipulation languages. Data structures. Numerical and non-numerical applications.

This course is intended to introduce students to a wide range of programming languages, their formal description, and their applications. The languages ALGOL, SNOBOL, LISP will be discussed in detail, and their features will be compared. Other languages will also be discussed. The method of evaluation is a mid-term exam, a final exam and four or five programming assignments.

Prerequisite: CSCA68

Session: Winter Day

CSCB73F Computer Organization

This course is designed to give students an understanding of the operation and the hardware of a modern digital computer. No knowledge of electronics is necessary.

Specific topics include: an introduction to boolean algebra, the design and analysis of gate networks, memory devices, the organization of a simple microprogrammed machine, basic data representation, assembler language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. The course structure is lectures and tutorials. The method of evaluation is two one-hour quizzes and six homework assignments.

Prerequisite: CSCA68

Session: Winter Day

CSCC34F Data Structures

This course is designed to teach students that care taken in representation of information can lead to improvements in the quality of programmes. A selection of topics will be used to illustrate approaches to choosing a data structure and associated algorithms.

Specific topics include: basic data types and their representation, sequences, graphs and basic graph algorithms, representation of trees and heaps, internal and external sorting algorithms, search aiding structures: trees, dictionaries and hash tables, file structures, data base systems. The course structure is lectures and tutorials. The method of evaluation is two tests and six written or programming assignments.

Prerequisite: CSCB68

Session: Winter Day

CSCC44F Problem-Oriented Languages and Interpreters

This course is designed to give students insight into the workings of a programming language processor. It will motivate the use of formal languages in the specification of syntax and semantics for a programming language.

Specific topics include: an overview of a language processor's lexical analysis, an introduction to the mathematical theory of syntax, basic concepts of syntactic and analysis and parsing algorithms, specification of semantics and code generation, the run-time organization of the language processor, storage allocation. The SNOBOL and ALGOL-W language processors will be used as a source of examples. The course structure is lectures and assignments. A series of assignments will result in the students building their own compiler/interpreter. The method of evaluation is two one-hour quizzes and six written or programming assignments.

Prerequisites: CSCB28, CSCB73, CSCB68

Session: Winter Day

JMCC51S Numerical Methods

Numerical methods and their implementation on a computer. Solution of linear and non-linear equations. Ill conditioned problems and error estimates. Numerical integration and solution of initial value problems for ordinary differential equations.

This course is an introduction to the numerical solution of several types of mathematical problems. The emphasis will be on the analysis of a few reliable methods and on their comparison, for each class of problem. All the algorithms that will be used are available in a software library, so that programing will be restricted to the writing of short driving and linking programmes.

Eight or nine assignments will be given, and a short mid-term examination will be set. There will be a final examination.

The language of the packaged programmes is FORTRAN, for which a brief review will be given.

Prerequisites: MATA40, MATB42 or MATB55, CSCA68

Session: Winter Day

CSCC64S 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. Introduction to Logic: propositional calculus, predicate calculus, and program correctness. Introduction to complexity theory: models of computation, classes P and NP, techniques for efficient algorithms, NP-complete problems, and heuristic algorithms.

Prerequisite: MATC44 or MATA45 or MATB42

Session: Winter Day

CO-OPERATIVE PROGRAMME IN ADMINISTRATION

Academic Director: A.P. Simmie

The Co-operative Programme in Administration is designed for students

- to understand the governmental decision process at all levels in Canada
- to learn and use methods for the efficient allocation of scarce resources in government and business
- to develop and evaluate public policies and manage programmes which deal with complex social, economic, political and business problems
- to appreciate the behavioural implications of human and group interaction

The Programme prepares students for permanent employment in government, regulatory agencies, crown corporations and business enterprises while providing students with the alternative of graduate work in the social sciences or professional schools of law, management, public administration, planning or social work. Graduates receive a four-year B.A. with a Specialist in Administration.

The basic principle of co-operative education is that a combination of academic studies and work placements can result in a richer educational experience and contribute substantially to preparation for careers after graduation.

Admission to the Programme

Students may apply to enter the Co-op Programme following completion of Grade 13 or equivalent, or one year of university studies. Admission decisions follow a review of each student's high school and university curriculum, looking in particular for accomplishment in both quantitative and verbal skills.

For students applying from Grade 13, an appropriate Grade 13 curriculum would include at least one course from Functions and Relations, Algebra and Calculus and at least three courses from the following areas of studies: English, History and Humanities. Prior study in any of the social sciences is not required.

University students interested in Administration are encouraged to apply whether or not they have completed any part of the first year curriculum (COMA01, ECOA01, JCSB27, POLB50). The timing of their first work placement will depend upon which parts of the curriculum they have completed.

Our admissions procedure will include an evaluation of potential interest and ability in Administration and a letter of reference from a high school teacher or university instructor will be required from each applicant. Enrolment in this Programme is limited and only a small proportion of applicants can be accepted each year.

Specialist in Co-operative Programme in Administration

Supervisor: A.P. Simmie

The Programme combines eight four-month terms of study at Scarborough College with four terms of work experience, typically over a five year period. During work terms students serve in positions in government or government related business that are arranged by the Programme but won by students in competition with co-op students from other universities. Satisfactory performance in placements, including the submission of work term reports, is a requisite for completion of the Programme.

The curriculum is designed to develop skills in all students in three fundamental areas: a) behavioural skills, b) policy analysis skills and c) management skills. Students will complete a core of ten full-course equivalents organized about these foundations. Students complete the Programme by selecting an advanced option which focuses their studies in a specific problem area. These advanced options include Policy Analysis, Economic Policy, Evaluation of Social Issues, Urban and Regional Policy Analysis and Programme Management. Typically the choice of an advanced option need not be made until the third year. Advanced courses of interest to students offered by Commerce, Computer Science, Economics, Geography and Mathematics impose rigid patterns of prerequisites and students must plan their courses with considerable care. Each student's curriculum will require the approval of the Supervisor.

Prior to the first work term, usually in or after the second year, students will have completed COMA01, COMB01, ECOA01, ECOB03, JCSB27, POLB50 and POLB60.

Students are advised that a working knowledge of French is most desirable for employment in the public service, federally and provincially. The programme of intensive French study offered in the Summer Language Institute at Scarborough College is strongly recommended.

A. *Core courses:* ten full-course equivalents, to be selected as follows:

I Behavioural Foundations (two full-course equivalents)

Required:

JCSB27Y Organizational Behaviour

one full-course equivalent from:

POLB65Y Political Behaviour
POLB66Y Psychology and Politics
POLC65F/S Topics in Political Leadership
SOCB04Y Political Sociology
SOCC13F/S Industrial Sociology
SOCC07S Sociology of Occupations and Professions

II Public Policy Development and Evaluation (four and one half full-course equivalents)

Required:

EOCA01Y Introduction to Economics
ECOB03Y Price Theory
POLB50Y Canadian Government and Politics
POLB60Y Public Administration

one of:

ECOB32F Economics of the Public Sector: Expenditures
ECOB35F Public Decision Making

III Humanities (one full-course equivalent)

To be selected from the curricular offerings of the Humanities Division.

IV Programme Management (two and one half full-course equivalents)

Required:

COMA01Y Financial Accounting
COMB01Y Management Accounting

one half full-course equivalent from:

ECOB11F/S	Quantitative Methods in Economics
ECOB12S	Quantitative Methods in Economics: Applications
GGRB02Y	Analytical and Quantitative Methods in Geography
STAB52F	Probability and Statistics I
STAB57S	Probability and Statistics II
PSYB07F	Data Analysis in Psychology
PSYB08S	Experimental Design in Psychology
SOCB06F	Social Statistics

B. Advanced options:

I Policy Analysis (three full-course equivalents)

a) two full-course equivalents from:

POLB53Y	Public Policies in Canada
POLC60F	Administrative Politics
POLC61S	Policy Development
POLC62F/S	Organized Interests and the State

b) one half full-course equivalent from:

POLB51F/S	Government and Politics in Ontario
POLB54F	Intergovernmental Relations

c) one half full-course equivalent from:

ECOB07Y	Macroeconomic Theory and Policy
ECOB12S	Quantitative Methods in Economics: Applications
ECOB31S	Economics of the Public Sector: Taxation
ECOB35F	Public Decision Making
ECOB41S	Industrial Organization

II Economic Policy (three and one half full-course equivalents)

a) Required:

ECOB07Y	Macroeconomic Theory and Policy
---------	---------------------------------

b) one and one half full-course equivalents from:

ECOB31S	Economics of the Public Sector: Taxation
ECOB32F	Economics of the Public Sector: Expenditures
ECOB41S	Industrial Organization
JCEC40F	Public Policy Towards Business

c) one full-course equivalent from:

POLB53Y	Public Policies in Canada
POLC60F	Administrative Politics
POLC61S	Policy Development
POLC62F/S	Organized Interests and the State

III Evaluation of Social Issues (four full-course equivalents)

a) Required:

SOCB01Y	Methods in Social Research
SOCB05Y	Urban Sociology
SOCC06F/S	Applied Sociology

b) one half full-course equivalent from:

COMC03Y	Marketing
SOCB23Y	Population
SOCC07S	Sociology of Occupations and Professions
SOCC11F/S	Sociology of Law and Law Enforcement
SOCC13F/S	Industrial Sociology
SOCC22F/S	Qualitative Methods in Social Research

c) one full-course equivalent from:

POLB53Y	Public Policies in Canada
POLC60F	Administrative Politics
POLC61S	Policy Development
POLC62F/S	Organized Interests and the State

IV Urban and Regional Policy Analysis (four full-course equivalents)

a) Required:

GGRA04Y	The Nature of Human Geography
GGRB05Y	Urban Geography
GGRC27Y	Introduction to Regional Science

b) one full-course equivalent from:

ECOB47S	Urban Economics
POLB88Y	Urban Politics
POLC60F	Administrative Politics
POLC61S	Policy Development
POLC62F/S	Organized Interests and the State
SOCC26F/S	Urban Growth and Planning

V Programme Management (three and one half full-course equivalents)

a) two full-course equivalents from:

COMC03Y	Marketing
JCEC02Y	Corporation Finance
JCEB72F	Analysis for Decision Making I
JCEB73S	Analysis for Decision Making II

b) one half full-course equivalent from:

POLC60F	Administrative Politics
POLC62F/S	Organized Interests and the State

c) one full-course equivalent from one of:

ECOB41F	Industrial Organization
and	
JCEC40F	Public Policy Towards Business
SOCC07S	Sociology of Occupations and Professions
and	
SOCC13F/S	Industrial Sociology
CSCA58F	Introduction to Computing
and	
CSCA68S	Programming Applications

DRAMA

Discipline Representative: M.Q. Schonberg

The Drama courses at Scarborough College have been devised to serve both students who intend to specialize in Drama and Theatre studies and those who have a casual interest in the subject.

At present we offer two types of courses which complement each other: theoretical and practical. The theoretical courses are in the History of Theatre, in which the student becomes familiar with the development of the theatre from a non-literary point of view from its classical beginnings to the present day. These courses are augmented by courses in the dramatic literatures of several countries which are offered by members of the faculty who specialize in these areas.

Advanced students may choose an Independent Studies course or Directed Reading course, where they work individually under the supervision of their own tutors.

In the practical courses, the students become acquainted with all aspects of theatre production in studio situations, both as actors and technicians. The students study with faculty members and with professional artists and teachers. Participation in public productions at the College is encouraged.

Specialist Programme in Drama

Supervisor: M.Q. Schonberg

A student is required to complete twelve full-course equivalents, ten in the area of Dramatic Literature and Theatre, and two in related disciplines, as follows:

- (1) DRAB01Y An Introduction to the Practical Elements of Theatre
- (2) DRAB03Y The History of Theatre I
- (3) DRAB04Y The History of Theatre II

- (4) ENGB11Y Varieties of Drama
- (5) ENGB31Y Modern Drama
- (6) Two full-course equivalents chosen from the following:
- CLAB02Y Greek and Roman Tragedy
 - ENGB04Y* English Poetry and Drama 1660-1800
 - ENGB10Y Shakespeare
 - ENGB12Y* English Drama to 1642
 - ENGC28F/S* Drama in English Canada 1920-1970
 - FREB29F/S* French Drama of the 18th Century
 - FREB30F* French Theatre of the Early Modern Period
 - FREB31S* Contemporary French Theatre: The Theatre and the Absurd
 - FREB38F/S* The Theatre of French Canada
 - FREB39F/S* Workshop in Modern French Theatre
 - FREB41F/S* French Classicism: The Theatre
 - GERB40Y (GERB21Y) The Development of German Drama (in translation)
 - GERB63F* (GERB16Y) Nineteenth Century Drama
 - GERB70S* (GERB03Y) Twentieth Century Drama
 - HUMB70Y Introduction to Cinema
 - ITAB27F* Modern Italian Theatre from Pirandello to the Present
 - ITAB35F/S* Italian Sixteenth Century Theatre
 - ITAB41F/S* Italian Eighteenth Century Theatre
 - SPAB23Y Spanish Drama
 - SPAB24S Golden Age Drama
- * Students should check these courses for prerequisites
- (7) Three full-course equivalents chosen from the following (of which *two* must be at the C level, and no more than *two* may be chosen from DRAC10-C28).
- DRAB02Y The Directors' Theatre
 - DRAB05Y The Art and Nature of Comedy
 - DRAB10B The Theory and Practice of Improvisational Theatre: Commedia dell'Arte
 - DRAB12B Medieval and Early Tudor Drama: The Texts and Their Production
 - DRAC01Y Advanced Practical Workshop and Elements of Directing
 - DRAC10Y** Individual Studies in French Drama
 - DRAC11Y** Individual Studies in German Drama
 - DRAC12Y** Individual Studies in Italian Drama
 - DRAC13Y** Individual Studies in Russian Drama
 - DRAC14Y** Individual Studies in Spanish Drama
 - DRAC20Y*/
 - DRAC21Y*/
 - DRAC22Y*/
 - DRAC23Y*/
 - DRAC24Y*/
 - DRAC25F*/
 - DRAC26S*/
 - DRAC27F*/
 - DRAC28S* Supervised Reading Courses
- The student may take only one of the Individual Studies courses in any single academic year.
- (8) Two full-course equivalents chosen from the following:
- ANTA01Y Introduction to Anthropology
 - ANTA03Y Peoples of the World
 - ANTB02S* Anthropological Study of Religion
 - ANTB23Y Comparative Mythology
 - CLAB01Y Greek and Roman Epic
 - ENGA04Y English Literature: Forms and Approaches
 - ENGA08Y Forms of Twentieth Century Literature
 - FARA03Y Aspects of Western Culture from the Renaissance to Modern Times
 - HISA01Y The European World: An Introduction to History
 - HUMA01Y Prologue
 - HUMA11Y Greek and Roman Mythology
 - LINA01Y General Linguistics
 - LINA04Y Introduction to Language
 - MUSA01Y Introduction to Music

- PHLB03F Philosophy and Art
 - PSYA01Y Introduction to Psychology
 - SOC01Y Introduction to Sociology
- * Students should check these courses for prerequisites
- ** Prerequisite ten full-course equivalents

Note: No more than ten full-course equivalents in DRA are permitted in the four-year degree.

Major Programme in Drama

Supervisor: M.Q. Schonberg

A student is required to complete six full-course equivalents in the area of dramatic literature and theatre. The following four courses comprise the core of the programme:

- DRAB01Y Drama Workshop and Seminar (An Introduction to the Practical Elements of Theatre)
- DRAB03Y History of Theatre I
- DRAB04Y History of Theatre II
- ENGB11Y Varieties of Drama

In addition, the student must take two full-course equivalents, one from group A and one from group B, but no more than two courses from DRAC10-C28 may be taken within the three-year degree.

Group A

- DRAC01Y Advanced Practical Workshop and Elements of Directing
- DRAC10Y** Individual Studies in French Drama
- DRAC11Y** Individual Studies in German Drama
- DRAC12Y** Individual Studies in Italian Drama
- DRAC13Y** Individual Studies in Russian Drama
- DRAC14Y** Individual Studies in Spanish Drama
- DRAC20Y*/
- DRAC21Y*/
- DRAC22Y*/
- DRAC23Y*/
- DRAC24Y*/
- DRAC25F*/
- DRAC26S*/
- DRAC27F*/
- DRAC28S* Supervised Reading Courses

Group B

- CLAB02Y Greek and Roman Tragedy
- DRAB02Y The Directors' Theatre
- DRAB05Y The Art and Nature of Comedy
- DRAB10B The Theory and Practice of Improvisational Theatre: Commedia dell'Arte
- DRAB12B Medieval and Early Tudor Drama: the Texts and their Production
- ENGB04Y* English Poetry, Prose and Drama 1660-1800
- ENGB10Y Shakespeare
- ENGB12Y* English Drama to 1642
- ENGC28F/S* Drama in English Canada 1920-1970
- ENGB31Y* Modern Drama
- FREB29F/S* French Drama of the 18th Century
- FREB30F* French Theatre of the Early Modern Period
- FREB31S* Contemporary French Theatre: the Theatre and the Absurd
- FREB38F/S* The Theatre of French Canada
- FREB39S* Workshop in Modern French Theatre
- FREB41F/S* French Classicism: The Theatre
- GERB40Y The Development of German Drama (in translation)
- GERB63F* Nineteenth Century Drama
- GERB70S* Twentieth Century Drama
- HUMB70Y Introduction to Cinema
- ITAB27F* Modern Italian Theatre from Pirandello to the Present Day
- ITAB35F/S* Italian Sixteenth Century Theatre
- ITAB41F/S* Italian Eighteenth Century Theatre
- SPAB24S* Golden Age Drama

* Students should check these courses for prerequisites.

** Prerequisite ten full-course equivalents

DRAB01Y An Introduction to the Practical Elements of Theatre / L.L. Browne

An introductory practical course, concentrating on the non-literary aspects of theatre.

In the workshops the student will study basic acting techniques (rudiments of voice, movement, script interpretation, building a character), and will also be introduced to such technical skills as lighting, sound, makeup, set construction and painting. In addition, the student will be expected to participate in at least one production each term.

Three two-hour workshops per week, plus additional time as necessary for rehearsals and/or production meetings etc.

Continuous evaluation with emphasis on participation, concentration and attendance. Careful preparation for each of the workshops is essential. The grade assigned for the course will be Honours/Pass/Fail. Lab fee \$15.00

Session: Winter Day

DRAB04Y The History of Theatre II / M.Q. Schonberg

A study of the history of the theatre in the nineteenth and twentieth centuries and study of the non-literary aspects of modern theatre in Europe and North America in the proper historical and socio-political context. Major topics of concentration will deal with the European Romantic Theatre; The Early Theatre in North America; Melodrama; The Advent of Realism; The Naturalistic Theatre; The Symbolist Trends; The Expressionistic Theatre; The Epic Theatre; Contemporary Theatre. Another area of study will include ballet, opera, and so called "lesser" theatrical forms, i.e. Music Hall, Vaudeville, Burlesque Theatre, Circus. There will be two one-hour classes and a one-hour optional seminar per week.

The text will be Oscar Brockett: *History of Theatre*, Third Edition. Other texts will be announced in the Spring.

There will be class tests and two term papers.

Session: Winter Day

DRAB05Y The Art and Nature of Comedy / M.Q. Schonberg

A study of the archetypal patterns of comedy as manifested in different periods and cultures. The students will read representative theoretical works and a survey of comic plays from Aristophanes to the present. These will be looked at with reference to the theory and practice of comedy and to the social aspects of this dramatic form. The types of comedy explored will include political and literary satire, the comedy of ideas, farce and burlesque, the drama of melancholy, and the comedy of the absurd. There will be two one-hour seminars weekly. Evaluation is based on participation in seminars, essays, and class tests.

Session: Winter Day

DRAB13B The Victorian Theatre / L.L. Browne

A study of theatrical developments in England in the nineteenth century, paying particular attention to the popular theatre. In addition to the formal comedy and drama of the time, melodrama, light comedy and farce, burlesque, pantomime and music hall entertainment of this period will be studied with a view to contemporary staging practices and acting styles. One such entertainment will be produced by the class as part of the course. The class will meet in four three-hour sessions each week. It is hoped that visiting scholars will give guest lectures. Evaluation will be based on seminars, essay and/or tests, and participation in course productions. (Further information may be obtained from the instructor.)

Session: Summer Evening

DRAC01Y Advanced Practical Workshop and Elements of Directing / M.Q. Schonberg

This course is designed to enable advanced students to concentrate on problems related to the staging and direction of plays in studio situations.

A portion of the course is devoted to work with TV-video tape equipment. A minimum of three hours weekly in formal groups, and additional time in rehearsal, will be devoted to advanced exercises in acting skills, scenework, and work on productions.

The text for the course will be Curtis Canfield's *The Craft of Play Directing*, published by Holt, Rinehart and Winston.

The grade assigned for the course will be Honours/Pass/Fail, and the student will be evaluated continuously throughout the course. Lab fee \$15.00.

Prerequisite: DRAB01

Session: Winter Day

DRAC10Y Individual Studies in French Theatre and Drama in Translation / M.Q. Schonberg

Individuals will study under the supervision of members of the French discipline.

This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the French discipline, and the Drama Supervisor.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.

Prerequisites: At least ten full course equivalents, two of which must be DRAB03 and DRAB04.

This course is intended for students specializing in Drama who are not sufficiently fluent in French/German/Italian/Russian/Spanish to read the works in the original language. Permission of Supervisor required.

Session: Winter Day

DRAC11Y Individual Studies in German Theatre and Drama in Translation / M.Q. Schonberg

Individuals will study under the supervision of members of the German discipline.

This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the German discipline, and the Drama Supervisor.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.

Prerequisite: Same as for DRAC10

Session: Winter Day

DRAC12Y Individual Studies in Italian Theatre and Drama in Translation / M.Q. Schonberg

Individuals will study under the supervision of members of the Italian discipline.

This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Italian discipline, and the Drama Supervisor.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.

Prerequisite: Same as for DRAC10

Session: Winter Day

DRAC13Y Individual Studies in Russian Theatre and Drama in Translation / M.Q. Schonberg

Individuals will study under the supervision of members of the Russian discipline.

This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Russian discipline, and the Drama Supervisor.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.

Prerequisite: Same as for DRAC10

Session: Winter Day

DRAC14Y Individual Studies in Spanish Theatre in Translation / M.Q. Schonberg

This course is intended for students in the Specialist Programme in Drama who do not have adequate knowledge of the Spanish language to be able to work with original texts.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Spanish discipline, and the Drama Supervisor.

In this course emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.

Prerequisites: Ten full course equivalents and permission of Supervisor.

Session: Winter Day

DRAC20-24Y
DRAC25F, C26S

DRAC27F, C28S **Supervised Reading Courses / M.Q. Schonberg**

This is an advanced reading course for drama students. The student wishing to take this course should consult with M.Q. Schonberg, the Programme Supervisor, who will arrange in co-operation with the student a reading list and set the specific requirement for the course.

The emphasis in this course will be on advanced individual projects exploring specific areas of the history of theatre, and/or dramatic literature. Proposals by students for specific projects will be assessed by the Supervisor in consultation with other members of faculty.

Evaluation will be based on written submissions which will be agreed upon by the student and the instructor at the beginning of the course.

Prerequisites: One B-level full-course equivalent in Drama, and permission of instructor.

Session: Winter Day

COURSES NOT OFFERED in 1980-81

DRAB02Y **The Directors' Theatre**

DRAB03Y **The History of Theatre I**

DRAB12B **Medieval and Early Tudor Drama: The Texts and their Production**

ECONOMICS

Assistant Chairman: M.W. Bucovetsky

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

There are certain courses which are central to the curriculum: the introductory course (ECO A01); the initial B-level courses - Price Theory (ECOB03) and Macroeconomic Theory and Policy (ECOB07); at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (ECOB81, ECOB82), the Literature of Economics (ECOB20, ECOB21), Comparative Economic Systems (ECOB68). A student who wants to pursue Economics in depth should consider seriously acquiring a background in Accounting, Statistics, and Computer Science and, most important of all, Mathematics (especially Calculus, Probability Theory, and Linear Algebra).

Many courses in the Social Sciences complement courses in Economics so that students are urged to read the Calendar and, with the help of the Supervisor, to plan their programmes of study carefully.

Specialist Programme in Economics

Supervisor: R. Saunders

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

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

Students must complete at least nine full-course equivalents as specified below and not more than fourteen full-course equivalents in Economics. The following specific courses must be included as part of the nine-course minimum.

ECO A01Y
CSCA56F or CSCA58F
MATA22Y or MATA26Y or MATA55Y
ECOB03Y (formerly ECOB01F and B02S)
ECOB07Y (formerly ECOB05F and B06S)
ECOB11F/S or STAB52F and STAB57S
ECOB12S
ECOB20F/S or ECOB21F/S or ECOC05F/S or ECOC07F/S
ECOB66F/S or ECOB68F/S or ECOB81Y or ECOB82Y

Four C-level half-courses in Economics, one of which must be ECOC13F or ECOC14S and one of which must be taken from the Workshops in Economics.

Students are urged to take ECOA01Y, CSCA56F or CSCA58F and either MATA22Y or MATA26Y or MATA55Y in their first year of full-time study (or equivalent). The courses in Mathematics, particularly MATA26Y or MATA55Y, are recommended as preliminary to ECOB03Y, which is an important course in the second year of full-time study (or equivalent). ECOB11F/S should be included in the first ten courses taken.

Students may petition the Supervisor for permission to substitute other courses for some of those listed above.

Students considering the possibility of graduate work in Economics are strongly urged to take MATA40F and either MATA26Y or MATA55Y in first year, and, in second year, to take Mathematical Statistics (STAB52F and STAB57S) instead of ECOB11, and B level Calculus.

Specialist Programme in Economics and Commerce

Please refer to "Commerce and Economics"

Specialist Programme in Economics and Political Science

Supervisor: R. Saunders

Six full-course equivalents are required in each of the two disciplines.* The specific courses required are listed below. In addition, mention is made of courses in other disciplines that complement the Specialist Programme. Any student interested in the Programme should consult the Supervisor by the end of his or her first year.

Required courses in Economics:

ECO A01Y
ECOB03Y
ECOB07Y
ECOB31S, ECOB32F
ECOB20F or ECOB21S or ECOC05S or ECOC07F
ECOB35S or ECOB66F
ECOB11F/S OR STAB52F and STAB57S

Required courses in Political Science:

POLA01Y
POLB50Y
POLB70Y or POLB71Y

Three additional full-course equivalents from at least two of the five categories listed below. (Alternative courses in political theory or Canadian government may be acceptable if chosen with the advice and concurrence of the Supervisor.)

- A: Public Administration - POLB60Y, POLC60F, and 61S, POLC62F/S
- B: Political Behaviour - POLB65Y, POLB66Y, POLC65F/S
- C: International Relations - POLB80Y, POLB81F/S, POLB82Y, POLC80Y
- D: Comparative Politics, Industrialised Countries - POLB85Y, POLB86Y, POLB87Y, POLB88Y, POLB89Y, POLC85Y
- E: Comparative Politics, Developing Countries - POLB91Y, POLB92Y, POLB93Y, POLB94Y, POLC91F, POLC92S

Related courses in other disciplines:

MATA22Y or MATA26Y, CSCA56F, COMA01Y

*The maximum number of Economics and Political Science full-course equivalents which can be counted for the four-year degree is sixteen.

Major Programme in Economics

Supervisor: R. Saunders

This Programme is designed to give a coordinated exposure to the subject matter of Economics to students pursuing the three-year degree or to those pursuing the four-year degree with more than a single area of concentration.

The Programme consists of six full-course equivalents in Economics. These must include:

ECO A01Y, ECOB03Y, ECOB07Y, ECOB11F/SL

It is recommended that a student also include:

- (i) one C-level course
- (ii) ECOB12S
- (iii) One course chosen from ECOB81Y, ECOB82Y, ECOB66F/S, ECOB68F/S

ECOA01Y Introduction to Economics / Staff

A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed will include: unemployment, inflation, pollution, poverty, monopoly.

Session: Summer Evening, Winter Day, Winter Evening

ECOB03Y Price Theory / Staff

Intermediate level development of the principles of microeconomic theory. Initially the primary emphasis is on static partial equilibrium analysis, but general equilibrium analysis is developed later in the course. The topics covered are consumer theory, theory of production, theory of the firm, theories of competition, monopoly and oligopoly, factor prices and welfare economics.

Exclusions: ECOB01 and ECOB02

Prerequisite: ECOA01

Session: Summer Day, Winter Day, Winter Evening

ECOB07Y Macroeconomic Theory and Policy / Staff

An exposition of macroeconomic theory with detailed discussion of the theory of output, employment and the price level and of policy techniques for influencing and controlling the levels of these variables. There is some discussion of Canadian institutions and markets as well as of the policy experiences of Canada and other countries.

Exclusions: ECOB05F and ECOB06S

Prerequisite: ECOA01

Session: Summer Day, Winter Day, Winter Evening

ECOB11F/S Quantitative Methods in Economics / Staff

An introduction to basic statistical methods and their applications to economic problems.

Exclusion: ANTB43; GGRB02; PSYB07; SOCB06; STAB52

Prerequisite: ECOA01

Session: Winter Day, Winter Evening

ECOB12S Quantitative Methods in Economics: Applications / Staff

A course in some quantitative methods used in the analysis of economic policy. The student is introduced to the primary statistical techniques and modelling issues that are employed in forecasting, policy evaluation and planning decisions. Topics will include multiple regression, estimates of multiple equation systems, forecasting techniques and input-output models. Calculus is strongly recommended.

Prerequisite: ECOB11 or GGRB02 or STAB52 and STAB57; CSCA56 or CSCA58

Session: Winter Day

ECOB20F Literature of Political Economy / V.W. Bladen

A study of the classical literature of Political Economy; especially selections from the works of Adam Smith, Malthus, Ricardo and J.S. Mill.

Prerequisite: ECOA01

Corequisite: ECOB03, B07

Session: Winter Day

ECOB21S Literature of Political Economy II / Staff

A study of classical literature of Political Economy; especially selections from the works of Marx, Jevons, Marshall and Keynes.

Prerequisite: ECOA01

Corequisite: ECOB03, B07

Session: Winter Day

ECOB31S Economics of the Public Sector: Taxation / M. Bucovetsky

This course is concerned with the revenue side of government finance. In particular, it deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design. Some attention will also be given to the use of government fiscal policy to regulate the level of economic activity.

Prerequisite: ECOB03

Session: Winter Day

ECOB32F Economics of the Public Sector: Expenditures / M. Bucovetsky

A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course. Special topics discussed include: pollution, the economics of education, fiscal federalism, urban problems.

Prerequisite: ECOB03

Session: Winter Day

ECOB35F Public Decision Making / M. Krashinsky

The economics of non-competitive decision making, cost benefit analysis, voting models, evaluation of public policy, theories of organization. Case studies of public decisions will be included.

Prerequisite: ECOA01

Session: Winter Day

ECOB41F Industrial Organization / R. Saunders

The economics of the firm in a market environment. The aim is to study business behaviour and market performance as influenced by concentration, entry barriers, product differentiation and diversification.

Prerequisite: ECOB03

Session: Winter Day

ECOB45F Poverty and Income Distribution / M. Gunderson

A study of alternative theories of income distribution with application to poverty and income distribution in Canada. Includes an analysis of the impact of alternative income maintenance schemes such as welfare, negative income taxes, wage subsidies, unemployment insurance, minimum wages, human resource development and public expenditures, taxes and subsidies, as well as the impact of aggregate demand policies on the distribution of income.

Prerequisite: ECOB03

Session: Winter Day

ECOB47S Urban Economics

Economic analysis is applied to contemporary urban problems. Topics discussed include: housing and urban renewal, poverty and income maintenance, education, metropolitan organization of urban areas.

Prerequisite: ECOB03

Session: Winter Day

ECOB51S Labour Economics / M. Gunderson

The course is designed to apply the basic tools of labour economics to various policy issues such as: fertility and family formation; labour force participation; hours of work, overtime and moonlighting; mobility and migration; the effect of market structures on the wage-employment decision; the role of wage structures; causes, types and incidence of unemployment; wage-price guidelines and the wage-price-employment trade-offs; the impact of institutional constraints such as unions, featherbedding, minimum wages, wage parity, sex discrimination, occupational licensing, unemployment insurance, wage subsidies and negative income tax plans.

Prerequisite: ECOB03

Session: Winter Day

JCEB54S Industrial Relations

A study of industrial relations in the Canadian setting. Topics include industrial relations theory and systems; history, philosophy and structure of unionism, labour law, and collective bargaining. Limited enrolment 80.

Evaluation will be based on a mid-term test and a final examination.

Prerequisite: ECOA01

Session: Winter Evening

ECOB61S International Economics: Finance

Balance of payments, equilibrium and departures from it. A study of various international monetary arrangements; flexible rates; the gold standard and the dollar standard; current efforts to reform the system. The economics of international investment and its control. The effects of international investment.

Prerequisite: ECOB07

Session: Winter Day

ECOB62F International Economics: Trade Theory

An analysis of the factors on which a country's trade with other countries is based and the welfare implications of this trade. "Free trade" and protectionism. The optimum tariff; trade blocs; the economics of customs unions and regional economic integration. Tariff bargaining. The Canada-U.S. Auto Pact.

Prerequisite: ECOB03

Session: Winter Day

ECOB66F Economic Development / A. Berry

A study of growth and development with the aim of devising policies to promote the development of less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problem of population growth and unemployment, inequalities in income distribution, the roles of agriculture and industry.

Prerequisite: ECOB03

Session: Winter Day

ECOB68S Comparative Economic Systems

A course designed to introduce students to alternative ways of organizing economic activities - allocating resources, distributing income, accumulating capital. Part of the time will be spent examining these alternatives from a theoretical perspective; the rest will be devoted to studies of particular economies, especially Canada, the Soviet Union and Yugoslavia.

Prerequisite: ECOA01

Corequisite: ECOB03

Session: Winter Day

JCEB72F Analysis for Decision Making I

A course in the analytical formulation and solution of decision problems. Linear decision models, and especially linear programming, are the tools primarily discussed and employed.

Exclusions: (COMB26), (ECOB71)

Prerequisites: CSCA56 OR CSCA58, MATA40 OR MATA22 OR MATA26 OR MATA55, ECOB03

Corequisite: ECOB11 or GGRB02 or MATB57

Session: Winter Day

JCEB73S Analysis for Decision Making II

A continuation of JCEB72F with less emphasis on deterministic, linear models. Course content will be determined by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing.

Exclusions: (COMB26), (ECOB71)

Prerequisite: JCEB72

Session: Winter Day

ECOB81Y North American Economic History

A survey of important themes in the economic history of Canada and the United States. A comparative approach is employed to develop such themes as the role of natural resource staple industries, and urbanization, and the relationship of the state to economic change in the two countries.

Prerequisite: ECOA01

Session: Winter Day

ECOB82Y European Economic History / J. Cohen

A study of the emergence of industrial society in Europe since the Middle Ages with some emphasis on the comparative experience of Britain and other European countries and the growth of the nineteenth century world economy. Particular attention is paid to technical change, the expansion of markets, population growth, the economic effects of public policy, and consequent changes in income levels and the structure of the economy.

Prerequisite: ECOA01

Session: Winter Day

JCEC02Y Corporation Finance

An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to discover the social and legal significance of the modern corporation. Limited enrolment 60.

Evaluation will be based on homework assignments, a mid-course test and a final examination.

Prerequisites: COMB01; ECOB03; ECOB11

Session: Winter Day

ECOC05S The Economics of J.M. Keynes / L. Tarshis

A study of his major works and consideration of their broad social implications. An attempt will be made to evaluate their relevance for Canada and other countries at the present time. Modern criticisms of Keynes will be analysed.

Prerequisites: ECOB03; ECOB07

Session: Winter Day

ECOC07F The Economics of Karl Marx / J. Cohen

A study of Marx's approach to economic theory and economic history. Discussion will centre on Marx's theory of capitalism and will emphasize the theory of exploitation and the process of accumulation.

Prerequisite: ECOB03; ECOB07

Session: Winter Day

ECOC08S Econometrics / W. Milne

A detailed examination of the issues relevant for policy evaluation and corporate planning in building, estimating and evaluating statistical models in economics. This course will apply the theory of linear statistical models and simultaneous equation estimation covered in ECOB12S to problems such as energy demand forecasting, the modelling of supply-demand equilibria in markets, measuring the impact of government regulatory policies and the use of large scale regional or national econometric models.

Prerequisites: ECOB12; ECOB03; ECOB07; MATA40 or permission of instructor

Corequisites: ECOC13 or ECOC14 or permission of instructor

Session: Winter Day

ECOC11F and ECOC12S Supervised Reading / Staff

These courses are meant for upper-level students whose interests are not covered in one of the other courses normally offered. Students are expected to design the course with the guidance of a staff member interested in the area of study being proposed. The courses will normally be made available only to students whose performance in Economics courses has been well above average. Students interested in supervised reading courses are urged to contact faculty members well in advance, as not all faculty will be available for these courses in any single term.

Prerequisite: Permission of instructor

Session: Summer Day, Summer Evening, Winter Day, Winter Evening

ECOC13F Advanced Microeconomic Theory

An upper level extension of the ideas studied in ECOB03. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty.

Prerequisites: ECOB03; ECOB07; ECOB11; MATA22 or MATA26 or MATA55

Session: Winter Day

ECOC14S Advanced Macroeconomic Theory

Post-Keynesian developments in macroeconomic (including monetary) theory; empirical testing of Keynesian and post-Keynesian macroeconomic theories and the uses of macroeconomic models.

Prerequisites: ECOB03; ECOB07; ECOB11; MATA22 or MATA26 or MATA55

Session: Winter Day

ECOC15F and ECOC16S Topics in Advanced Economic Theory

These courses are devoted to some aspect of economic theory not usually covered at the undergraduate level, or to recent work extending or revising received theory, or to alternatives to orthodox economic theory.

A detailed list of courses and instructors will be available to students from the late spring onwards.

Prerequisites: ECOC13 or ECOC14 and permission of instructor

Session: Winter Day

ECOC17F**ECOC18S****ECOC19F****ECOC20S Workshops in Economics**

The workshops deal with detailed problem areas in Economics. In past years these have included such subjects as natural resources, technical change, international investment, multinational firms, economic discrimination or extensions of applied topics covered at B-level.

A detailed list of the courses and instructors will be available to students from the late spring onwards.

Prerequisites: ECOB03; ECOB07; MATA22 or MATA26 or MATA55. For ECOC19F and ECOC20S, ECOC13 or C14 will be a prerequisite.

Session: Winter Day

JCEC40S Public Policy Towards Business / R. Saunders

A study of various aspects of government policy that relate to the conduct of firms. Topics covered will include regulation in theory and practice, the political economy of tariff determination and the effects of tariffs on Canadian industrial structure, competition policy and public ownership.

Prerequisite: ECOB41

Session: Winter Day

COURSES NOT OFFERED in 1980-81

ECOC21F

ECOC22S

ECOC23F

ECOC24S

Workshops in Economics

Prerequisites: ECOB03; ECOB07; MATA22 or MATA26 or MATA55.
For ECOC23F and ECOC24S, ECOC13 or ECOC14 will be a prerequisite.

ENGLISH

Discipline Representative: E.P. Vicari

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

At the A-level, the curriculum offers two kinds of course: A01 and A02 deal with works from a broad historical spectrum, and provide a basic grounding for further studies in English; they are designed particularly, but not exclusively, for students planning a Specialist or Major Programme in English. For students not intending to pursue an English Programme, A08 provides a good alternative introduction to English at the university level, through the study of Twentieth-Century literature.

At the B-level, several courses are offered which require no prerequisite and are therefore available both to beginning and to more advanced students: see B01, B07, B08, B10, B11, B14 and B15. Other courses, as their prerequisites indicate, are designed to build upon previous work in English and presuppose some background in critical skills and some familiarity with the subject matter.

C-level courses are designed for more sophisticated studies and require some independent work on the part of the student. These courses are generally restricted in enrolment and are conducted as seminars. Students are advised to consult the prerequisites for these courses when planning their individual programmes.

Specialist Programme in English

Supervisor: E.P. Vicari

Ten full-course equivalents in English and two in related Humanities disciplines are required. They should be selected as follows.

- (1) ENGA01Y English Literature: Practical Criticism and Interpretation
- (2) ENGA02Y English Literature: An Historical Survey
- (3) ENGB95Y English Literary Criticism
- (4) Five additional full-course equivalents in English at the A- or B-level, including at least two courses in periods before 1800 and two courses in periods after 1800
- (5) Two full-course equivalents in English at the C-level
- (6) Two full-course equivalents in related Humanities disciplines to be chosen from the following:

CLAB01Y	Greek and Roman Epic
CLAB02Y	Greek and Roman Tragedy
HISB02Y	Britain from the Eighteenth Century to the Present
HISB23Y	Tudor and Stuart England (Prerequisite: a B-level HIS course)
HUMA01Y	Prologue
HUMA11Y	Greek and Roman Mythology
LINA01Y	General Linguistics

(The above listing represents those courses which have a general relevance to the study of English literature. Students may substitute, with the prior approval of the Supervisor, other Humanities courses which have specific relevance to their individual programmes.)

Major Programme in English

Supervisor: E.P. Vicari

Seven full-course equivalents in English are required. They should be selected as follows:

- (1) ENGA01Y English Literature: Practical Criticism and Interpretation
- (2) ENGA02Y English Literature: An Historical Survey
- (3) Four additional full-course equivalents in English, including at least one course in a period before 1800 and one course in a period after 1800
- (4) One additional full-course equivalent in English at the C-level

See also the Specialist Programme in Language and Literature.

ENGA01Y English Literature: Practical Criticism and Interpretation / Co-ordinator: K. Theil

An introduction to methods of literary criticism through the close reading of texts representative of various literary genres, and through frequent exercises in analytical writing. Normally taken in conjunction with ENGA02Y.

Why do we "study" literature rather than just reading it? What is involved in "analyzing" a poem, a play, a novel, or an essay? Do different kinds of literature require different kinds of analysis? How do we use critical terms and concepts such as metaphor, narrative perspective, and tragicomedy? This course will consider such questions, mainly through practice in the close analysis of literary texts. Frequent written assignments should stimulate students to think critically, to formulate their ideas coherently, and to express themselves clearly and persuasively.

The texts are: *The Norton Anthology of English Literature (Fourth Edition)*, Vols. 1 and 2; Austen, *Pride and Prejudice*; Dickens, *Great Expectations*; further texts may be chosen by individual instructors.

Teaching will involve a mixture of lecture and discussion, with particular emphasis on active class participation. Methods of evaluation may vary slightly, but all sections will require written term work (a total of 7,500-10,000 words) and a final examination.

Exclusion: (ENGA04)

Session: Winter Day, Winter Evening, Summer Evening

ENGA02Y English Literature: An Historical Survey / M. Tait; W.J. Howard

A survey of English Literature from the Middle Ages to the 20th Century, in the context of relevant intellectual, aesthetic, social and political developments. Normally taken in conjunction with ENGA01Y.

This course provides a general introduction to the main periods of English literary history--the Medieval, Renaissance, Restoration, Eighteenth-Century, Romantic, Victorian, and Modern Periods. Reading will be extensive, involving selections from at least twenty major writers. The texts are: *The Norton Anthology of English Literature (Fourth Edition)*, Vols. 1 and 2; Austen, *Pride and Prejudice*; Dickens, *Great Expectations*; Hardy, *Tess of the d'Urbervilles*; further texts may be announced.

This is a lecture course; evaluation will be on the basis of one class-test and one examination each term. Students are advised to combine this course with English A01Y, in order to balance their programme with small group discussions, close textual study, and practice in essay writing.

Session: Winter Day

ENGA08Y Twentieth-Century Literature / R. Brown

An introduction to critical reading and writing through a selection of modern literature from the English-speaking world.

This course will explore literature of the modern period -- a time of change and experiment. We will study short stories and novels by Joyce, Faulkner, D.H. Lawrence, Nabokov, Naipaul, Margaret Atwood and Alice Munro; plays by dramatists such as Shaw, O'Neill, Tennessee Williams, Beckett, Pinter and Stoppard; and a selection of modern poems.

Texts will include: *Double Vision*, ed. Rudy Wiebe; *Modern Poems*, ed. O'Clair and Ellmann; Joyce, *Portrait of the Artist*; Lawrence, *Sons and Lovers*; Faulkner, *The Sound and the Fury*; Naipaul, *House for Mr. Biswas*; Atwood, *The Edible Woman*; Shaw, *St. Joan*; O'Neill, *Long Day's Journey into Night*; Beckett, *Waiting for Godot*.

Teaching will involve a combination of lectures and seminars. Evaluation will be based on four essays, class participation, a term test, and a final examination.

Note: this course is intended primarily for students who do not expect to take a Specialist or Major Programme in English.

Session: Winter Day

ENGB01Y Old English Language and Literature / A.J.G. Patenall

An introduction to the language and literature of the Old English period as represented principally in the poetry and prose of the ninth and tenth centuries.

In the first term a fluency in the language is developed, mainly through a study of the grammar and syntax of various pieces of prose and poetry; the second term is devoted to a reading of poems selected from the Exeter Codex. Bibliography Quirk and Wrenn, *An Old English Grammar*; J.C. Pope ed., *Seven Old English Poems*; Aelfric, *Lives of Three English Saints*; N.F. Blake ed., *The Phoenix*.

Teaching method will be three hours of cooperative workshop each week. Students are expected to prepare work for these meetings. Evaluation will be by periodic tests from October to late February which will account for 25% of the grade. The balance will be achieved through six major tests in March.

Session: Winter Day

ENGB02Y Chaucer / P.L. Heyworth

Chaucer's poems are studied mainly as artistic productions, but also in relation to their historical and intellectual backgrounds. The texts will be read in Middle English and some language study is involved.

Further information will be available later in Room H525A.

Prerequisite: One full-course equivalent in English

Pre- or Co-requisite, 1981-82: ENGA01 (ENGA04), ENGA02 or ENGB15

Session: Winter Day

ENGB04Y English Poetry, Prose and Drama 1660-1800 / W.J. Howard

An historical study of the poetry, prose and drama of the Restoration and Eighteenth Century with special reference to the work of Dryden, Pope, Swift, and Johnson.

In addition to the writings of these major figures, the course will examine a wide range of other works as well as the political and cultural background of the period. Works studied will include: Pepys, *The Diary* (selections); Savile, *The Character of a Trimmer*; *The Lady's New Year's Gift*; Dryden, *Essay of Dramatic Poesy*, *All for Love*, *Preface to the Fables*, *Original and Progress of Satire*; Defoe, *Journal of the Plague Year*; Swift, *Battle of the Books*, *Tale of a Tub*, *Gulliver's Travels*; Addison, *The Spectator* (Everyman's Library, Vol. I); Boswell, *Life of Johnson*; Johnson, *Preface to Shakespeare*, *Lives of the Poets* (Cowley, Dryden, Pope, Milton); Congreve, *The Way of the World*; Goldsmith, *She Stoops to Conquer*; Sheridan, *The School for Scandal*.

Lecture and discussion periods are supplemented by seminars. Evaluation will be based on two major essays, two seminars, and a final examination.

Prerequisite: One full-course equivalent in English

Pre- or Co-requisite, 1981-82: ENGA01 (ENGA04), ENGA02; or ENGB15

Session: Winter Day

ENGB05Y Romantic Poetry / H. Auster

Blake, Wordsworth, Coleridge, Byron, Shelley, Keats for special study. Relevant prose works by these authors, and selections from other poets of the period, will also be studied.

Further information will be available later in Room H525A.

Prerequisite: One full-course equivalent in English

Prerequisite, 1981-82: ENGA01 (ENGA04), ENGA02; or ENGB15

Session: Winter Day

ENGB07Y Canadian Literature in English: An Introduction / J. Margeson, S. Namjoshi

A study of a wide range of Canadian literature, including works by novelists such as Callaghan, MacLennan, Laurence, Grove, Davies, Buckler; poets such as Lampman, D.C. Scott, Klein, Pratt, Birney, Avison, Atwood; playwrights such as Ryga writers of short stories and non-fiction prose.

The study of Canadian literature in English will be mainly historical, from early times to the present, though most attention will be paid to literature of the twentieth century. Representative novels, poems and plays will be read by the class; however the individual student will be encouraged to read more widely in the works of particular authors through the preparation of seminar papers and essays.

Teaching method involves lectures, discussion periods, and tutorials. Evaluation will be based on written essays, seminar papers, and a final examination.

Texts: *Literature in Canada* (ed. D. Daymond, L. Monkman); S. Moodie, *Roughing it in the Bush*; Leacock, *Sunshine Sketches*; Grove, *Settlers of the Marsh*; Callaghan, *They Shall Inherit the Earth*; MacLennan, *Each Man's Son*; Watson, *The Double Hook*; M. Laurence, *The Diviners*; Ryga, *The Ecstasy of Rita Joe*; R. Davies, *World of Wonders*.

Session: Winter Day, Winter Evening

ENGB09Y Prose and Poetry of the English Renaissance 1500-1660 / R. Brown

The non-dramatic literature of the English Renaissance from the rise of English humanism to the Interregnum.

A study of English Renaissance literature beginning with sixteenth century humanism in the works of More and Erasmus, responses to the courtly love tradition in the poetry of Wyatt, Surrey, Sidney, and Shakespeare, and Spenser's development of the epic. The second half of the course concerns the later Renaissance and the works of Donne, Milton, Jonson and their contemporaries. Texts: More, *Utopia*; Erasmus, *The Praise of Folly*; *Five Courtier Poets*; *Selected Poetry of Spenser*; Shakespeare, *Sonnets*; Milton, *Paradise Lost*; *The Later Renaissance in England*, ed. Rollins Baker.

The teaching method will involve lectures and discussion. Evaluation will be based on two essays, class participation, and an examination.

Prerequisite: One full-course equivalent in English

Pre- or Co-requisite, 1981-82: ENGA01 (ENGA04), ENGA02; or ENGB15

Session: Winter Day

ENGB10Y Shakespeare / A.J.G. Patenall

A study of at least eleven plays.

The lectures develop a structural approach to Shakespeare; they do not offer a comprehensive view of the plays, nor do they provide an objective survey of critical approaches to Shakespeare. Instead the lectures expose the lecturer's own aesthetic and critical prejudices, which may be challenged and questioned in seminar. Bibliography: *King Lear*; *Hamlet*; *Antony and Cleopatra*; *Romeo and Juliet*; *Richard II*; *I Henry IV*; *II Henry IV*; *Henry V*; *Twelfth Night*; *Much Ado about Nothing*; *Midsummer Night's Dream*; *The Tempest*. Other texts may be added in the seminar groups.

There will be two hours of formal lecture, and one hour of seminar. Evaluation will be 6,000 words in essays; participation in seminar; two ninety-minute examinations.

Session: Winter Day

ENGB11Y Varieties of Drama / K. Theil

A study of drama from ancient Greece to the present day. A wide range of plays will be examined in terms of theatrical convention, dramatic form, genre, theme, and verbal style.

The course introduces students to a wide range of drama through the study of about twenty plays. Students are encouraged to think about the relationship between dramatic texts and their theatrical production, to consider the relevance of generic labels (e.g. tragedy, comedy, tragicomedy), to make thematic connections among the plays, and to do close textual analysis of some of the plays. Texts will include: Sophocles, *Oedipus Rex*; Aristophanes, *Lysistrata*; Marlowe, *Doctor Faustus*; Shakespeare, *King Lear*; Jonson, *Volpone*; Wilde, *The Importance of Being Earnest*; Miller, *Death of a Salesman*; Pinter, *The Homecoming*. A full reading list will be available in May in R5008.

Teaching methods will include lectures and class discussion, as well as tutorials if warranted by enrolment. Evaluation will be based on two major essays, two play reviews, and a final examination. Participation in a short production may be substituted for a portion of the written work.

Session: Winter Day

ENGB12Y English Drama to 1642 / J.M.R. Margeson

A historical study of English drama from its beginning in medieval religious plays through the full flowering of Elizabethan and Jacobean tragedy and comedy to the closing of the theatres in 1642.

In addition to selected medieval and Tudor plays, there will be special emphasis on Marlowe, seven plays by Shakespeare, Ben Jonson, Webster, Middleton, Tourneur, and Ford. Some attention will also be paid to staging techniques and theatres from medieval times to the Elizabethans. The Shakespeare texts are: *Comedy of Errors*, *Love's Labour's Lost*, *Richard II*, *Much Ado about Nothing*, *Measure for Measure*, *Othello*, *The Winter's Tale*. Others will be announced.

Lectures and discussion periods are supplemented by seminars, and if interest warrants, the production of a short play. Evaluation will be based on two major essays, two examinations, and two seminar papers or participation in productions.

Prerequisite: One full-course equivalent in English

Pre- or Co-requisite, 1981-82: ENGA01 (ENGA04), ENGA02; or ENGB11

Session: Winter Day

ENGB15Y English Poetry / A. Thomas

A comparative study of forms, modes, themes, and styles of poetry from a number of historical periods. The poems selected for study will reflect the variety of forms in the English poetic tradition, including lyrics, medieval ballads, Renaissance sonnets, eighteenth-century couplets, romantic odes and modern free verse. Poets studied will include Shakespeare, Donne, Pope, Wordsworth, and Yeats.

The text will be *The Norton Anthology of Poetry: Shorter Edition* (Revised). Secondary reading will include Fussell, *Poetic Meter and Poetic Form* (Revised).

Classes will involve close reading and discussion of selected poems in a seminar group. Students will be expected to prepare and lead seminars as required and to write a short paper and a long essay (2000-3000 words); there will be two class tests or a final examination.

Session: Summer Evening

ENGB16Y Fiction 1832-1900 / K. Theil

A study of the development of the English novel in the Victorian period.

This course aims at cultivating the student's understanding of the English novel in its most assured period of creation, through study of the following novels: Dickens, *Oliver Twist*, *Bleak House*; C. Brontë, *Jane Eyre*; E. Brontë, *Wuthering Heights*; Thackeray, *Vanity Fair*; G. Eliot, *Silas Marner*, *Middlemarch*; Meredith, *The Egoist*; Hardy, *Far From the Madding Crowd*, *Jude the Obscure*; Moore, *Esther Waters*; Conrad, *Lord Jim*. The novels will be related to the intellectual, social and political milieu from which they emerged, but primary emphasis will be placed on the fictional techniques developed by the novelists to embody their visions of man and society. Students are urged to read as many of the texts as possible before the beginning of term.

Classes will have either a lecture-discussion or a student-led seminar format, depending on enrolment. Evaluation will be based on two major essays, two short papers or seminars, and a final examination.

Prerequisite: One full-course equivalent in English

Prerequisite, 1981-82: ENGA01 (ENGA04), ENGA02, ENGB14 or HISC21

Session: Winter Day

ENGB24Y Major American Authors

A close study of works by at least four and no more than six authors. Three of the authors will be drawn from the following list: Cooper, Emerson, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens, Faulkner.

Further information will be available later in Room H525A.

Prerequisite: One full-course equivalent in English

Session: Winter Day

ENGB27Y Canadian Fiction in English / R. Brown

A study of Canadian fiction in English from its origins in the eighteenth century, through the search for form and tradition in the nineteenth and early twentieth century, to the contemporary period of new exploration and consolidation.

The course examines authors confronting the problem of finding a fictional form and voice for their responses to Canada and of locating themselves in a viable tradition. It then examines several contemporary novelists both in terms of that tradition and through close readings of specific novels. Texts: Frances Brooke, *The History of Emily Montague*; Moodie, *Roughing It in the Bush*; de Mille, *Strange Manuscript*; Grove, *Fruits of the Earth*; Callaghan, *Such is My Beloved*; MacLennan, *Barometer Rising*; Mitchell, *Who Has Seen the Wind*; Ross, *As For Me and My House*; Watson, *The Double Hook*; Richler, *St. Urbain's Horseman*; Laurence, *The Stone Angel*; Davies, *Fifth Business*; Kroetsch, *The Studhorse Man*; Atwood, *Surfacing*; Cohen, *Beautiful Losers*.

The teaching method will involve lectures and discussions. Evaluation will be based on two essays, class participation, and an examination.

Prerequisite: One full-course equivalent in English.

Session: Winter Day

ENGB31Y Modern Drama / M. Tait

A study of developments in English, American, and European drama in the late nineteenth and twentieth century.

This course offers a concentrated study of the principal modes of modern theatre from Ibsen to Pinter. Central to the course is a definition of such terms as realism, expressionism, the theatre of the absurd, epic theatre, etc., as these categories may be usefully applied to the work of major modern playwrights. Texts will include: Ibsen, *A Doll's House* and *Hedda Gabler*; Chekhov, *Three Sisters*; Strindberg, *Miss Julie*; Shaw, *Man and Superman*; Pirandello, *Six Characters in Search of an Author*; Brecht, *Galileo*; Beckett, *Endgame*.

The teaching method will combine lectures and seminars. Evaluation will be based on two essays, two term tests or a final examination, one class seminar, and one short dramatic dialogue written in the style of one of the playwrights studied.

Prerequisite: One full-course equivalent in English

Prerequisite, 1981-82: ENGA01 (ENGA04), ENGA02; or ENGB11

Session: Winter Evening

ENGB33Y Fiction 1900-1950 / M. Creelman

An intensive study of twelve novels, with particular attention given to developments in fictional form and in the theory of the novel.

The early twentieth century was a period of innovation and experiment in the novel; new ways of writing novels expressed new ways of thinking about man. This course explores the emergence of a new content for fiction: truth as relative and subjective; character as a complex of unconscious impulses; time as a fluid continuum; reality as the perceiving mind. We look at ways in which novelists abandoned the "old-fashioned" forms of narrator, character, and story, or ways in which they put the old traditions to new use. Texts include James, *The Ambassadors*; Conrad, *Nostromo*; Ford, *The Good Soldier*; Joyce, *A Portrait*; Lawrence, *Women in Love*; Woolf, *To the Lighthouse*; Forster, *A Passage to India*; Faulkner, *Absalom, Absalom!*. Students are urged to do some reading in advance and use editions listed in the Bookstore.

Teaching method will be a combination of lecture and discussion, and, if enrolment permits, seminars. Evaluation will be based on two seminars or short papers, two essays, and a final examination.

Prerequisite: One full-course equivalent in English

Prerequisite, 1981-82: ENGA01 (ENGA04), ENGA02; or ENGB14

Session: Winter Day

ENGC04Y Studies in Renaissance Literature / J. Margeson

An advanced seminar treating special topics in Renaissance literature. Limited enrolment: 15.

In 1980-81, the course will be concerned with selected plays of Marlowe, Jonson, and Chapman, and with a few of their non-dramatic poems. Special study will be made of Marlowe's *Tamburlaine 1 & 2*, *The Jew of Malta* and *Doctor Faustus*, Jonson's *Volpone*, *Epicoene*, and *Sejanus*, and Chapman's *Bussy D'Ambois* and *The Conspiracy and Tragedy of Byron*. *Eastward Ho* by Jonson, Chapman, and Marston will also be read.

Students will be expected to present two seminar reports each term. Evaluation will be based on the seminar reports and two essays.

Prerequisite: Three full-course equivalents in English, one of which must be: ENGB09, ENGB10, ENGB12

Prerequisite, 1981-82: ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English, or one of ENGB09, ENGB10, ENGB12

Session: Winter Day

ENGC06Y Studies in Nineteenth Century Literature / M. Creelman

An advanced seminar treating special topics in nineteenth century literature. Limited enrolment: 15.

In 1980-81, the topic of the course will be "Garden and Machine: Pastoral Vision and Urban Landscape". We will consider the presentation of country and city as direct comments on industrialization, but the primary focus will be on the garden and the machine as metaphors expressing two conflicting views of man: organic and mechanistic. We will study the impact of an industrial economy and a scientific universe upon man's imaginative and emotional life, and his relationship with nature. Texts include: Wordsworth, *The Prelude*; Gaskell, *Mary Barton*; Dickens, *Hard Times* and *Dombey and Son*; Morris, *News from Nowhere*; Twain, *A Connecticut Yankee at King Arthur's Court*; Hardy, *The Woodlanders* and *Jude the Obscure*.

This is a seminar course; evaluation will be based on seminar presentations, two essays, and one test.

Prerequisites: Three full-course equivalents in English, one of which must be ENGB05, ENGB06, or ENGB16

Prerequisite, 1981-82: ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English, or one of ENGB05, ENGB06, ENGB16

Session: Winter Day

ENG12F History of the English Language / J.D. Woods

A study of the English language, from its roots in the Indo-European language family to the present.

The following topics will be discussed: English as a part of Indo-European, Old English, influences of other languages on Old English (especially Norman French), Middle English, the Renaissance, the "Appeal to Authority," and the period from the Nineteenth Century to the present. Instruction is primarily by means of discussion of the readings, which include sample readings from literary texts. Evaluation is by means of written work (including one or more essays totalling 3000 words) worth approximately 75% and oral work (including seminar presentation) worth approximately 25% of the final grade. Reading for the course will include Albert C. Baugh, and Thomas C. Cable, *A History of the English Language*. Third edition. Toronto: Prentice-Hall, 1978 (and various articles as background reading).

Prerequisites: Three full-course equivalents in ENG, including one at the B-level; or two courses in ENG and one of: an appropriate HIS course, LINA01 or LINA04

Session: Winter Day

JHEC13Y Advanced Seminar in Literary Theory and Criticism / E.P. Vicari

A study of literary criticism and theory from Plato to the present, with emphasis on problems of twentieth-century criticism.

In addition to surveying the history of criticism, the student will study such questions as: What is a work of literary art? How does it differ from statement and propaganda? How does one evaluate a work of literary art? What is criticism? How does one evaluate criticism? The major text will be *The Great Critics*, ed. Smith.

Students will be expected to contribute to seminar discussion and to lead seminars in their turn. There will be no lectures. Evaluation will be based on the presentation of papers in the seminar, contribution to discussion and two major essays.

Prerequisites: Three full-course equivalents in English, at least one at B-level; or three full-course equivalents in literature and permission of instructor.

Session: Winter Day

ENG14Y Senior Essay / E.P. Vicari

A scholarly project, chosen by the student, approved by the faculty in English and supervised by one faculty member. Arrangements with the faculty in English and the supervisor must be made by the student before the end of the pre-registration period in the spring.

The student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate his supervisor, but advice on this matter may be sought from the Discipline Representative. The following deadlines should be observed: By the last day of term the previous spring a brief statement of the area of the project, signed by the supervisor is to be sent to Professor E.P. Vicari. By November 15th a more specific statement of the project is to be sent to Prof. Vicari including the exact title of the proposed study, and a short description of its subject and method. After the topic has been approved by the discipline, a second reader will be appointed.

Prerequisites: Open only to students completing the last five courses for the four-year degree who have at least three full-course equivalents in English, at least one at B-level.

Session: Winter Day

ENG15Y Comprehensive Examinations / E.P. Vicari

English C15Y counts as a full course in the student's Programme: It will take the form of a reading course under the direction of an adviser.

Each student will design his course in consultation with his adviser. In order to identify areas where more reading may be required and possible areas for special study, a checklist of major authors is made available to students in the February of their Third Year. It is not assumed that the student, when he presents himself for examination, will have achieved complete mastery of all the authors mentioned. On the other hand, the list, despite its length, is selective rather than exhaustive and is therefore not intended to set rigidly prescribed limits on the reading for the course. The student in his fourth year will already be familiar with many of the authors through his work in other courses, and the use he makes of the list during that year (and in the summer preceding it) will depend on his own interests, his previous studies, and discussion with his adviser.

Prerequisites: Normally three full-course equivalents in English, at least one at B-level

Session: Winter Day

ENG18F The Shorter Fiction of D.H. Lawrence / M.S. Tait

A study of the short novels and stories of D.H. Lawrence.

A detailed study of characteristic themes and techniques in *St. Mawr*, *The Fox*, *The Virgin and the Gypsy*, *The Captain's Doll*, and other stories. Emphasis is upon the ways in which Lawrence's essential ideas are communicated through style, structure, characterization, and imagery.

Teaching will combine lectures and seminars. Evaluation will be based on one essay, one seminar report and one end of term test.

Prerequisite: Three full-course equivalents in English, at least one at B-level

Session: Winter Day

ENG28S Drama in English Canada 1920-1970 / M.S. Tait

A study of representative plays and the theatrical history of the period.

In addition to a close analysis of individual plays, we shall consider the evidences of continuity and tradition in Canadian dramatic writing. The course will focus upon the cultural conditions which have impeded and shaped the development of drama in English Canada. Texts will include: Charles Mair, *Tecumseh*; Merrill Denison, *The Unheroic North*; Robertson Davies, *At My Heart's Core* and *Overlaid*; James Reaney, *The Killdeer*; George Ryga, *Indian*; David French, *Leaving Home*.

The teaching method will be seminar discussion. Evaluation is based on one essay, one seminar report, one end of term test.

Exclusion: (ENGB13)

Prerequisite: Three full-course equivalents in English, at least one at B-level; or two courses in English and one of: HISB04, a full-course equivalent in Drama.

Session: Winter Day

COURSES NOT OFFERED in 1980-81**ENGB06Y Victorian Poetry**

Prerequisite: ENGA01 (ENGA04), ENGA02; or ENGB15

ENGB08Y American Literature: An Introduction

Exclusion: ENGA06

ENGB14Y Varieties of Fiction**ENGB17Y Fiction before 1832**

Prerequisite: ENGA01 (ENGA04), ENGA02; or ENGB14

ENGB25F/S The Canadian Short Story**ENGB26Y Canadian Poetry in English**

Prerequisite: One full-course equivalent in English

ENGB28Y Contemporary Literature in English: West Indies, India, Africa and Australia

Prerequisite: One full-course equivalent in English

ENGB29Y African Literature in English

Prerequisite: One full-course equivalent in English

ENGB32Y Modern Poetry

Prerequisite: ENGA01 (ENGA04), ENGA02; or ENGB15

ENGB95Y English Literary Criticism

Prerequisite: ENGA01 (ENGA04), ENGA02 and two other full-course equivalents in English

ENG01Y Advanced Studies in Beowulf and Other Old English Poetry

Prerequisite: ENGB01

ENG03Y Studies in Middle English Language and Literature

Prerequisite: ENGA01 (ENGA04), ENGA02, and one of: ENGB01, ENGB02, ENGC01

Prerequisite (1981-82): ENGB01; ENGB02

ENG05Y Studies in Restoration and Eighteenth Century Literature

Prerequisite: ENGA01 (ENGA04), ENGA02, and one of ENGB04, ENGB17

Prerequisite (1981-82): ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB04, ENGB17

Limited enrolment: 15 per section

ENG08Y	Studies in Twentieth Century Literature <i>Prerequisite:</i> ENGA01 (ENGA04), ENGA02, and one of ENGB31, ENGB32, ENGB33 <i>Prerequisite (1981-82):</i> ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB31, ENGB32, ENGB33
ENG10F	Problems in Later Shakespeare <i>Prerequisite:</i> Three full-course equivalents in English, one of which must be ENGB10 or ENGB12
ENG11S	Paradise Lost <i>Prerequisite:</i> Three full-course equivalents in English, at least one at B-level
ENG24Y	Topics in American Literature <i>Prerequisite:</i> One of ENGA08; ENGB24; one other B-level full-course equivalent in English

FINE ART

Discipline Representative: M. Gervers
Studio Representative: D. Holman

The Fine Art Curriculum offers courses in the two complementary fields of Art History and Studio. The courses offered in Art History deal primarily with the development of the arts in the West from classical times to the present day. The Studio curriculum has been designed to develop creative thinking and provides opportunities for a first hand acquaintance with materials, forms, and concepts of the visual arts.

Students are encouraged to take relevant courses in other disciplines, such as are listed below, in order to enhance their background knowledge and to become familiar with a variety of views of fine art.

Students who wish to supplement Scarborough offerings in Art History with courses on the St. George campus should also pay careful attention to the requirements described in the calendar of the Faculty of Arts and Science. It should be noted that course offerings are not identical on both campuses, but requirements for a 300 or 400 level course on the St. George campus can be met at Scarborough by taking an A- and a B-level survey in the same area as the upper level course. (See also p. 24 of this calendar.)

Since reading ability of foreign languages is necessary in many advanced fields of Art History, and since a reading knowledge of certain foreign languages is a prerequisite for admission to some upper level Art History courses on the St. George campus, it is highly recommended that students acquire proficiency in one or more languages (French, German or Italian) by the end of their second year.

Students in Studio courses are required to meet part of the cost of materials; they will be required to pay \$30 - \$50 for materials for each half course.

Recommended courses outside the discipline:

HISA01Y	The European World: An Introduction to History
HUMA11Y	Greek and Roman Mythology
HUMB22F/S	The Age of Pericles
HUMB23F/S	The Age of Augustus
HUMB24F/S	The Age of Nero
HUMB25F/S	The Age of Homer
HUMB34F/S	Hercules; the Man of Action
HUMB35F/S	"The Ulysses Factor"
HUMB36Y	Orpheus: The Quest for Beauty
HUMB70Y	Introduction to Cinema
PHLB03F	Philosophy and Art
PSYB50F/S	Sensation and Perception*
SOCC18Y	Sociology of Art and Culture*

*Students should check these courses for prerequisites.

Specialist Programme in Fine Art

Supervisor: R. Siebelhoff

Students must complete ten full-course equivalents in Fine Art as follows:

- (1) One and one half full-course equivalents in Fine Art History chosen from the Classical and Medieval periods.
- (2) One and one half full-course equivalents in Fine Art History chosen from the Renaissance and Baroque periods.
- (3) Two full-course equivalents in Fine Art History chosen from the modern period.
- (4) Five full Studio courses (or equivalent) to be chosen in consultation with the Studio instructors.

(Note: Students seeking type "A" certification in the Faculty of Education require at least nine Fine Art courses, with a balance between Studio and Art History.)

Specialist Programme in Fine Art History

Supervisor: R. Siebelhoff

Students must complete eleven full-course equivalents as follows:

- (1) FARA10F; FARA11S; FARA12F; FARA13S
- (2) One B-level full-course equivalent from each of the following areas:
Classical
Medieval
Renaissance
Baroque
Modern (1750 to the present)
- (3) Two C-level full-course equivalents in Fine Art History.
- (4) Two full-course equivalents in cognate fields selected from the list of recommended courses. Other courses may be substituted with the approval of the Supervisor.

Major Programme in Fine Art History

Supervisor: R. Siebelhoff

Students must complete six full-course equivalents as follows:

- (1) One full-course equivalent in Fine Art History from each of the following areas:
Classical
Medieval
Renaissance
Baroque
Modern (1750 to the present)
- (2) One additional full-course equivalent in Fine Art History at the C-level.

Specialist Programme in Fine Art Studio

Supervisor: D. Holman

Students must complete fourteen full-course equivalents: ten in Fine Art Studio, any two full-course equivalents in Fine Art History, and two additional courses in cognate disciplines. The courses in Fine Art Studio must include:

- (1) FARA90Y
- (2) FARB70F/S; FARB72F/S; FARB75Y; FARB82F/S; FARB84Y
- (3) Three and one half B-level full-course equivalents chosen from the following: FARB74F/S; FARB76Y; FARB77Y; FARB78Y; FARB83F/S; FARB85Y; FARB90F/S; FARB91F/S
- (4) Two C-level full-course equivalents.

Students wishing to specialize in either painting or printmaking are advised to select three and one half B-level full-course equivalents in one of these areas, and then to complete two C-level courses in the chosen area.

If entry to graduate school or type "A" certification in the Faculty of Education are to be sought students are advised to consult with the Supervisor.

The two full-course equivalents in Fine Art History should be chosen in consultation with the Supervisor.

Two additional full-course equivalents are to be chosen from the list of recommended courses outside the discipline available from the Supervisor.

Major Programme in Fine Art Studio

Supervisor: D. Holman

Students must complete six full-course equivalents as follows:

- (1) FARA90Y
- (2) FARB70F/S*
- (3) FARB72F/S*
- (4) FARB74F/S*
- (5) FARB75Y*
- (6) Two and one half additional Studio courses, one of which must be at the C-level.

*Students should check these courses for prerequisites.

FINE ART HISTORY

FARA10F Ancient Art and Architecture / M. Shaw

Art and architecture from Archaic Greece to the decline of Rome.

A survey of major monuments and trends in Greece and Rome. Emphasis on archaic sculpture, classical architecture and sculpture, Hellenistic art, Roman Republican portraiture and Imperial architecture. One two-hour lecture per week. Visits to R.O.M. and A.G.O. Evaluation is based on term work (50%) and a final examination (50%).

Exclusion: (FARA04)

Session: Winter Day

FARA11S Medieval Art / M. Gervers

A survey of the arts in Europe from the late Roman Empire to the end of the Gothic period. The study will consider architecture, sculpture, painting, illumination and the minor arts.

The objective of this course is to familiarize students with European artistic traditions from their origins in an early Christian, Mediterranean, context through their development under the influences of classical, byzantine, moslem and pagan forms, to the triumphant creation of an entirely new iconographic and stylistic language of expression which determined the nature of renaissance art. Texts will include E. Kitzinger, *Early Medieval Art*; R. Krautheimer, *Early Christian and Byzantine Architecture*; O. von Simson, *The Gothic Cathedral*; and others.

There will be two hours of slide lectures weekly and trips to the Royal Ontario Museum. Evaluation is based on term work, which will include a short paper and mid-term examination (50%), and a final examination (50%).

Exclusion: (FARB24)

Session: Winter Day

FARA12F Renaissance and Baroque Art / R. Siebelhoff

A survey of architecture, painting and sculpture from ca. 1400 to ca. 1750.

A selection will be made of the most important monuments, primarily from Italy and the Netherlands. These will include works by such artists as Leonardo da Vinci, Michelangelo, Rembrandt, Rubens and Bernini. Two hours of lectures per week; class participation is encouraged. Slides and films will be used and visits will be made to the A.G.O. and the R.O.M. Evaluation is based on a final examination (50%) and one term paper (50%).

The course texts are Frederick Hartt, *Art, A History of Painting, Sculpture, Architecture*. Vol. II, *Renaissance, Baroque, Modern World*. New York, Abrams, 1976.

Exclusions: (FARA03), (FARA04)

Session: Winter Evening

FARA13S Modern Art 1750 to the Present / L. Carney

A selective study of Western European and North American painting, sculpture and architecture from the period of the French Revolution to the Second World War.

Works of art will be chosen and analyzed on the basis of their key roles in the rapid succession of artistic movements during this period. By a thorough study of these works, the course will attempt to present a comprehensive view of artistic conditions in major centres throughout the modern Western World. One weekly two-hour slide lecture, with occasional films. Evaluation is based on term work (50%) and a final examination (50%).

Exclusions: (FARA03), (FARA04)

Session: Winter Day

FARB02S Wallpainting in Ancient Egypt and the Bronze Age (ca. 3200 B.C. - ca. 1200 B.C.) / M. Shaw

The course will trace the development of painted mural decoration in tombs and temples of Ancient Egypt and in houses and palaces of Crete, other Greek islands, and Mainland Greece.

Modes of representation, techniques and possible inter-relationships between these areas will also be examined. There will be one two-hour lecture weekly. Evaluation is based on one one-hour test (20%), one term paper (40%), and a final examination (40%).

Exclusion: (FARB42)

Session: Winter Day

FARB10F Carolingian and Romanesque Art and Architecture / M. Gervers

A survey of the art and architecture of Europe from 800 to 1150, considered in light of the varied artistic developments of the contemporary Mediterranean world.

The course will consider the major artistic and architectural monuments of Europe from the Carolingian renaissance to the renaissance of the twelfth century. Works will be considered in their geographical context, and in relation to the art and architecture of the later Roman Empire, Byzantium and Armenia, Islam, and the art of the invasion period. The importance of monasticism and pilgrimage will also be discussed. One two-hour illustrated lecture weekly. Trips to the Royal Ontario Museum. Evaluation is based on an essay, mid-term and final tests, each worth 1/3 of the final grade. The course texts are: E. Kitzinger, *Early Medieval Art*; G. Zarnecki, *Romanesque Art*; K.J. Conant, *Carolingian and Romanesque Architecture*.

Prerequisite: FARA11 highly recommended

Corequisite: FARA11 highly recommended

Session: Winter Day

FARB29Y Baroque Painting in the Netherlands / R. Siebelhoff

An examination of portraiture, landscape and still life in the Dutch Republic from ca. 1600 to ca. 1675.

The first few lectures will deal with the geographical and topographical situation around 1600 and will proceed with a historical survey of the area during the seventeenth century. The class will then explore the origins of Dutch seventeenth century painting by looking at innovations which were made in Flanders and Italy in the late sixteenth century and which prepared the way for the Utrecht Caravaggisti. The approach towards the material will be problem-oriented. We will evaluate attributions on documentary, stylistic and iconographic grounds, while attempting to study the works of art of the different artists in an acceptable chronological order. The course consists of two hours of lectures per week with class participation encouraged. Slides and films will be used, and there will be a visit to the A.G.O. Evaluation is based on an examination (35%) and two term papers. The course text is: Rosenberg, Slive and Ter Kuile, *Dutch Art and Architecture 1600-1800*, Harmondsworth, 1972 (a paperback edition in The Pelican History of Art series). Students will be provided with a bibliography.

Exclusion: (FARB17)

Session: Winter Day

FARB37Y From David to Delacroix / R. Siebelhoff

Painting and sculpture produced in France between the revolutions of 1789 and 1848.

Two dominant artistic movements known as Neo-Classicism and Romanticism will be traced. Special emphasis will be placed on the developments in Paris with its principal painter David and his pupils - Géricault, Ingres, Delacroix - and their followers. Interpretations of several subject categories will be studied, in particular historical subjects, contemporary political events and portraiture. From the viewpoint of style, the emphasis will be placed on the different approaches by the Neo-Classicalists and the Romantics to identical subjects. The development of landscape painting will be dealt with as well. Two hours of lectures per week with class participation encouraged. Use of slides and films, visits to the A.G.O. and the Buffalo Gallery. Evaluation is based on two term papers and a final examination (35%).

Exclusion: (FARB13)

Session: Winter Day

FARB43S Impressionism / R. Siebelhoff

The development of Impressionism and its impact on Modern Art.

The course will commence with an exploration of nineteenth century landscape painting, thus establishing the main sources of Impressionism. Thereafter it will focus on those aspects of the work of Manet and Degas which are essential to the movement. Of equal importance are contemporary theories of colour. The background of the individual members of the Impressionist group will be traced until the first Impressionist exhibition. The exhibitions between 1874-86 will be discussed, followed by a selective study of the artists during the last decade of the century.

There will be two hours of lectures per week with class participation encouraged. Use of slides and films, visits to the A.G.O. and the Albright-Knox Gallery in Buffalo. Term examination (50%), one research paper (50%). Bibliography will include John Rewald, *The History of Impressionism*, N.Y.: MOMA, 1946.

Exclusions: (FARB14) (FARB51)

Session: Winter Evening

FARB48F Art from 1900 to 1950 / L. Carney

A survey of twentieth century European art and architecture.

Cubism and Fauvism in France; the German Expressionists; the rise of abstract painting and sculpture; Constructivism and the Bauhaus; Dada and Surrealism; the development of modern architecture. These movements will be discussed in relation to the careers of major painters, sculptors and architects. The course will consist of weekly two-hour slide lecture, and a trip to the Buffalo Gallery. Evaluation is based on an essay and a final examination; their relative importance will be decided in class.

Exclusions: (FARB28Y)

Pre- or Corequisites: FARA13S recommended but not required

Session: Winter Day

FARB54F New York in the Twentieth Century / L. Carney

A study emphasizing major New York painters and Sculptors from the first half of this century.

The course surveys the art scene in New York as the city moved from a somewhat provincial position to a vivid awareness of modern European art at the time of the Armory Show in 1913, and eventually became an international art centre after the Second World War.

There will be a two-hour slide lecture each week, with class participation encouraged. The class will make a day trip to the Albright-Knox Gallery in Buffalo, and a weekend trip to New York City if this can be arranged. Evaluation is based on one essay and one examination in the final examination period. Relative importance of the essay and examination will be decided in class. Bibliography will be discussed in class.

Prerequisite: Recommended preparation or companion courses: FARA13 or FAB48

Session: Winter Evening

FARB60Y The Arts in Canada: 1670 to Present / L. Carney

A selective survey of Canadian painting, sculpture and architecture.

The course will examine the problem of Colonial art, with concentration on the history of painting. The establishment in the early nineteenth century of a Québécois painting tradition, and later of an independent Canadian landscape school, will be considered in the context of the artists' contacts with European centres, and the history of patronage in Canada. Twentieth-century art and architecture from all regions of Canada will be studied. The course is taught through weekly two-hour slide lectures and visits to important Canadian art collections. Evaluation is based on one essay in each term and one examination in each examination period; the relative importance of these will be decided in class. Bibliography will be provided in class.

FARA13 is recommended but not required as preparation.

Exclusion: (FARB20)

Session: Winter Day

FARB62S Recent Canadian Art / L. Carney

An introduction to the work of major Canadian artists, chiefly painters and sculptors, from the last three decades.

Each weekly session will be devoted to the work of either one or two artists of national importance. The course will also examine these painters' and sculptors' links with traditions in art.

The class will meet for a two-hour slide lecture or a gallery talk each week. Taped interviews and films will also be used. Evaluation is based on one essay and one examination in the final examination period; their relative importance will be decided in class. The bibliography will consist mostly of exhibition catalogues, and will be discussed in class.

Prerequisite: Another course in modern art is recommended but not required as preparation.

Session: Winter Evening

FARC02F**FARC03S****FARC04Y Supervised Reading / R. Siebelhoff**

Prerequisites: At least one B-level full-course equivalent in Art History; permission of instructor must be obtained by the first week of classes. A reading knowledge of a second language is recommended.

Session: Winter Day

FINE ARTS STUDIO**FARA70F Two and Three Dimensional Design / J. Hoogstraten, B. Hall**

An introduction to the basic principles of visual design for the student interested in the visual arts, but not intending to pursue the Specialist Programmes.

The student will investigate basic principles in design and composition, developing a familiarity with both the verbal and visual vocabulary. There will be lectures, demonstrations and group critiques. The student will work in class and be given weekly assignments related to that work. Evaluation is based on weekly assignments and work done in class.

Three hours per week. Limited enrolment: 20

Exclusion: (FARB10)

Session: Winter Day, Winter Evening

FARA71S Colour / J. Hoogstraten, B. Hall

An introduction to the interaction of colour in the visual arts for the student with an interest in the visual arts, but who is not intending to pursue the specialist Programmes.

The student will be introduced to the relativity of colour relationships, developing a familiarity with the methods of controlling colour effects. There will be lectures, demonstrations and group critiques. The student will work in class with pigments and coloured papers and will be given weekly assignments related to that work. Evaluation is based on weekly assignments and work done in class.

Three hours per week. Limited enrolment: 20

Exclusion: (FARB10)

Session: Winter Day, Winter Evening

FARA90Y Foundation Studies in Studio / J. Hoogstraten, B. Hall

This course will introduce the student to basic problems in design and colour and will relate these problems to the visual arts. There will be an emphasis in this class on each student's exploration and investigation of these problems.

There will be lectures, demonstrations and group critiques. Evaluation will be based on a final portfolio.

Exclusion: (FARA70 and FARA71)*

Prerequisites: Students may pre-register but will not be admitted to the course unless granted permission of the instructor during the first week of classes. A portfolio must be submitted at this time.**

Session: Winter Day, Winter Evening

*Students who have completed FARA70 and FARA71 and who wish to enter the Specialist Programme will be given due consideration on submission of a portfolio on the last day of classes.

**Students who are not accepted into FARA90 will be transferred into FARA70 and FARA71 if they so wish.

FARB70F Introductory Drawing / J. Hoogstraten

An introductory course for students wishing to explore the techniques and concepts of drawing. This course is designed to introduce the student to the potentials inherent in drawing. Three hours per week of studio work including group and individual critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and submitting a series of finished drawings at the end of term. Evaluation is based on a final portfolio and the sketchbook.

Limited enrolment: 20.

Prerequisites: FARA90 or permission of instructor

Session: Winter Day

FARB72F Introduction to Printmaking (Screen Process Printing) / D. Holman

Materials and methods in edition printing.

This course is designed to introduce the student to the art of printmaking through the use of the silk screen medium. The course will include lectures and demonstrations of the silkscreen, etching, and lithographic techniques of printmaking. The student will be expected to conceive and print several serigraphs. Trips to public and private galleries to view prints will be mandatory. The class will be held three hours every week and evaluation will be based on the finished work and written analyses of prints viewed at the galleries visited. Lab fee \$30.00.

Limited enrolment: 15.

Prerequisites: FARA90 or permission of instructor

Corequisite: FARB70

Session: Winter Evening

FARB74S Intermediate Drawing / D. Holman

An investigation of the creative act of drawing and its use in the development of the artist's personal visual perception.

This course will give Fine Art students an opportunity to expand their knowledge and skills in the art of drawing. The class will meet three hours every week for work in the studio and for personal and group critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and producing a number of finished drawings. Evaluation will be based upon the final portfolio submitted. The final portfolio must include all the drawings done for projects, drawings done from the models, and the sketchbook(s).

Limited enrolment: 20.

Prerequisite: FARA90 or permission of instructor

Session: Winter Evening

FARB75A Introduction to Painting / J. Hoogstraten

An introduction to principles and techniques of painting. Emphasis will be placed on experimentation and the investigation of the possibilities of painting.

There will be four days per week of three-hour sessions, involving studio work, lectures and working demonstrations. There will be both group and individual critiques held at appropriate intervals during the course. Students who lack the prerequisite but have some painting experience are invited to apply for permission from the instructor, especially if the course is to be taken without credit.

Limited enrolment: 20.

Exclusion: (FARB71)

Prerequisite: FARA90 or permission of instructor

Session: Summer Day - Summer Arts Programme

(See 1980 Summer Courses and Programmes Brochure)

FARB76B Intermediate Painting I / J. Hoogstraten, D. Holman

A course designed to develop competence in contemporary materials with an emphasis on understanding recent attitudes in painting.

Session: Summer Day - Summer Arts Programme

(See 1980 Summer Courses and Programmes Brochure)

FARB77Y Intermediate Painting II / J. Hoogstraten

A continuation of FARB76, designed for the student already competent in the use of materials.

This course allows the student to explore his or her own direction in painting. It encourages personal experimentation with paint and involves discussion of individual and group problems. Three hours per week of studio work including group and individual critiques, plus trips to art galleries. Evaluation will be carried out as in FARB76 (see Special Programmes Brochure).

Limited enrolment: 15.

Prerequisites: FARB76 or permission of instructor

Session: Winter Day

FARB80F/S Drawing from the Figure I / D. Holman, J. Hoogstraten

An exploration of some of the aspects of drawing using the figure as the basis for this exploration.

This course will develop concepts in drawing using the figure as subject matter. The class will meet three hours every week for work in the studio and for personal and group critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and producing a number of finished drawings. Evaluation will be based upon the final portfolio submitted. Lab fee \$15.00.

Limited enrolment: 20

Prerequisite: FARB74 or permission of instructor

Session: Winter Day

FARB81F/S Drawing from the Figure II / D. Holman, J. Hoogstraten

A continuation of FARB80. Students who have not taken FARB80 should consult the Supervisor. Lab fee \$15.00.

Limited enrolment: 20.

Prerequisite: FARB74 or permission of instructor

Session: Winter Day

FARB82F Introduction to Lithography / D. Holman

An introduction to stone lithography edition printing involving a detailed investigation of materials and techniques.

The course will include working demonstrations and lectures explaining and demonstrating the artistic nature of stone lithography. The student will be expected to draw and execute several lithographs. The method will be three hours per week of Studio work. The grade will be based upon an evaluation of the actual work completed in the Studio. Lab fee \$30.00.

Limited enrolment: 10.

Prerequisite: FARA90; FARB72 or permission of instructor

Session: Winter Evening

FARB83S Intermediate Lithography / D. Holman

An extension of FARB82.

The objective of the course is to further explore the art of stone lithography in multi-colour printing. The content, method and evaluation are the same as for FARB82F. Lab fee \$30.00.

Limited enrolment: 10

Prerequisite: FARB82 and permission of instructor

Corequisite: FARB74

Session: Winter Evening

FARB84A Introduction to Etching / O. Tamasaukas

An introduction to etching and relief printing exploring the use of materials and techniques involved in the process of creative 'Fine Art Printing'.

Session: Summer Evening - Summer Arts Programme

(See 1980 Summer Courses and Programmes Brochure)

FARB85B Intermediate Etching / O. Tamasaukas

A studio course designed to expand the student's knowledge of etching and relief printing.

Session: Summer Day - Summer Arts Programme

(See 1980 Summer Courses and Programmes Brochure)

FARB90F**FARB91S Supervised Studies in Studio: Intermediate Level / D. Holman, J. Hoogstraten**

These courses may be in any of the fields of drawing, painting and printmaking. Students are required to submit a portfolio along with their proposal outlining intended research. The courses are intended for students who can demonstrate the need to pursue further study in any of the above areas. Students are also required to meet with instructors on a regular basis for critiques of work in progress.

The proposal submitted to the instructors must specify as clearly as possible the nature of research and experimentation, number of works to be completed, deadlines for projects, and criteria for evaluating the sort of work they wish to do. Students must be prepared to be critical of their own work, and to pursue areas of research determined in co-operation with the instructors. Since these courses usually lead to independent study courses at the C-level, students might consider how they fit into a projected programme of study. Students are also advised to speak to instructors as far in advance as possible of submitting proposals.

Limited enrolment: 3.

Prerequisites: FARA90, and permission of instructor which is based on the evaluation of the proposal and/or portfolio

Session: Winter Day

FARC21Y Advanced Studio: Individual Study in Painting / D. Holman, J. Hoogstraten

This course is only for students who would like to develop further a mature painting ability. Students must convince the instructors that they are able and willing to assume the responsibility to carry this course without intensive guidance.

The student will have an opportunity to work independently while receiving ongoing, advanced criticism from the instructors. The content of this course, methods to be used, and evaluation of work are determined co-operatively by the student and the instructors.

Limited enrolment: 5.

Prerequisite: Permission of instructor must be obtained by the first week of classes.

Session: Winter Day

FARC22Y Advanced Studio: Individual Study in Printmaking / D. Holman

The purpose of this course is to give the promising student an opportunity to work independently while receiving advanced criticism. The content, method and evaluation of the course will be decided upon by both the student and instructor. Limited enrolment: 5.

Prerequisite: Permission of instructor must be obtained by the first week of classes.

Session: Winter Day

FARC24F**FARC25S Independent Studies in Studio: Advanced Level / D. Holman**

These courses may be in any one of the fields of drawing, painting and printmaking. Limited enrolment: 3 students.

Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for the student who can demonstrate the need to pursue independent study in one of the above areas. Students are required to meet with the instructors at appointed times; however they are expected to work independently. Content, method and evaluation to be planned in cooperation with instructor.

Prerequisite: FARA70, FARA71; at least one B-level course in the field of study; a portfolio demonstrating proficiency in this field; permission of instructors which is based on the evaluation of the portfolio

Session: Winter Day

FARC90F**FARC91S Independent Studies in Studio: Advanced Level / D. Holman**

These courses may be in any one of the fields of drawing, painting and printmaking.

Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for the student who can demonstrate the need to pursue independent study in one of the above areas. Students are required to meet with the instructor at appointed times; however they are expected to work independently.

Content, method and evaluation to be planned in cooperation with instructor. Limited enrolment: 3.

Prerequisites: at least one B-level course in the field of study, a portfolio demonstrating proficiency in this field, and permission of instructor which is based on the evaluation of the portfolio.

Session: Winter Day

COURSES NOT OFFERED in 1980-81

FARB04F/S Archaic Greek Sculpture 650-480 B.C.

FARB05F/S Classical Greek Sculpture 480-300 B.C.

FARB10F/S Carolingian and Romanesque Art and Architecture
Pre- or Corequisite: FARA11 highly recommended

FARB11F/S Gothic Architecture

FARB15F Renaissance in Italy
Exclusions: (FARB03), (FARB23)

FARB16S The Arts in Northern Europe
Exclusion: FARB22

FARB19F/S Studies in the High Renaissance - Michelangelo

FARB22Y The Arts in Northern Europe ca. 1400-1500

FARB23F/S Early Renaissance in Florence 1400-1450

FARB24Y Medieval Art, 4th to 14th c.

FARB45F/S Rembrandt

FARB46F/S Gauguin, Seurat, van Gogh, Cezanne
Exclusion: FARB28

FARB30F/S Frans Hals, Rembrandt and Vermeer
Exclusion: FARB45

FARB60Y The Arts in Canada: 1670 to Present
Corequisite: FARA04

FARB61Y The Canadian Landscape

FARC01F/S Readings in Art History: Marxism and the Arts
Prerequisite: One B-level full-course equivalent in the same area

FARC09F Studies in the High Renaissance I
Prerequisite: FARB03 or FARB22
Corequisite: FARB43

FARC14F Art Around 1900
Prerequisites: FARB13 and FARB14. A reading knowledge of French or German is recommended but not required.

FARC15F/S Cubism and Related Movements in Painting
Exclusion: FARB52

FARC16F/S Expressionist Trends in Western Art from Van Gogh to Jackson Pollock
Prerequisite: FARB28 is recommended but not required

FRENCH

Discipline Representative: P. Moes

The courses offered in French are designed primarily for students with Grade 13 French who wish to continue their study of the language and of the literature of France and French Canada. Students without Grade 13 French or an equivalent background who wish to qualify for FREB06, or simply to begin their study of the subject, will find opportunities in FRE A-level language courses offered throughout the year and/or in the summer at the Scarborough Language Institute. FREB06 serves to consolidate the previous experience of students in the understanding and use of the language.

Courses in the French language are now available in three distinct modes:

- The regular courses*, offered during the Winter session, which provide language instruction on a three- to four-hour per week basis (A06Y, A16Y, B06Y, B16Y and C06Y);
- The intensive courses*, available in both Fall and Spring terms, which provide intensive instruction using diversified approaches and which allow students to earn a full course credit during one term (A16A, B06A and B06B, B16B). These courses are designed to permit students to reach rapidly a level of competence in French which will facilitate further university studies;
- The immersion courses*, available in the Summer term and which are described in detail in the College's 1980 Summer Courses and Programmes Brochure.

Providing prerequisite requirements are met, courses may be combined in a variety of ways; however, students intending to pursue a Specialist Programme in French are invited to consider taking both FREB06 and FREB02 in their first year, or, if they enrol in intensive courses, to combine FREB06A, FREB16B and FREB02Y. They may then choose courses from within the following groups:

- (1) the main trends of French and French Canadian literature;
- (2) the genres: poetry, theatre and novel in various periods;
- (3) advanced language;
- (4) language practice courses.

Students should also consult entries under *Language and Literature* and *Modern Languages* in the College Calendar.

Students intending to pursue their studies in French on the graduate level are advised that a knowledge of Latin is required by the Graduate Department of French of the University of Toronto and by most graduate departments of French.

Specialist Programme in French

Supervisor: S. Mittler

Students should complete twelve full-course equivalents, including:

- (1) the sequence FREB06Y (FREA01Y), FREB16Y (FREB01Y), FREC06Y (FREC01Y), (except where substitution of other French courses is permitted for students with special proficiency in the French language)
- (2) one of the following courses: FREB25Y, FREB42F-43S, FREB48Y, FREC09Y
- (3) three full-course equivalents in French and French Canadian Literature, one of which should deal with a period prior to 1800 and one with a period after 1800
- (4) four full-course equivalents at C-level (or from the 300 and 400 series courses offered on the St. George Campus). Both FREC06Y (FREC01Y) and supervised reading courses may count toward this requirement.
- (5) It is recommended that the student include in his/her programme one full-course equivalent from the series FREC02-C07, FREC90 (Supervised Reading) involving individual research in a specific area. (Such a course may also count toward satisfying requirements in (2), (3) and (4) above.) Normally, no more than two full-course equivalents in the area of supervised reading may be credited for requirements for the Specialist Programme.
- (6) Two full-course equivalents outside French but from related areas of study, to be agreed upon in consultation with the Supervisor.

The following may not count toward a Specialist Programme:

- (1) any A-level French course except (FREA01) and (FREA02)
- (2) FREB11, FREB12, FREB14
- (3) more than two courses from the series FRE425 to FRE469, (specialized seminars) offered on the St. George Campus.

Major Programme in French Language

Supervisor: S. Mittler

Students should complete seven full-course equivalents, including:

- (1) FREB06Y (FREA01Y), FREB16Y (FREB01Y), FREC06Y (FREC01Y) (except where substitution of other French courses is permitted for students with special proficiency in the French language)
- (2) two full-course equivalents from the following: FREB07F/S and/or FREB17F/S or FREC16Y (C99Y); FREB25Y, FREB42F-FREB43S, FREB48Y, FREC09Y
- (3) two other full-course equivalents in French, only one of which may be chosen from group (2).
- (4) Students may include in their Programme a maximum of one supervised reading course.

The following may not count toward a Major Programme in French Language:

- (1) any A-level French course except (FREA01) and (FREA02)
- (2) FREB11, FREB12, FREB14

Major Programme in French Language and Literature

Supervisor: S. Mittler

Students should complete seven full-course equivalents, including:

- (1) FREB06Y (FREA01Y), FREB16Y (FREB01Y) (except where substitution of other French courses is permitted for students with special proficiency in the French language)
- (2) one of the following courses: FREB25Y, FREB42F-43S, FREB48Y, FREC06Y (FREC01Y), FREC09Y, FREC16Y (FREC99Y)
- (3) three full-course equivalents from the remaining courses in French and French Canadian literature and civilization
- (4) one additional full-course equivalent in French, to be chosen in the area either of language study or of literature and civilization
- (5) students may include in their Major Programme a maximum of one supervised reading course

The following may not count toward a Major Programme in French Language:

- (1) any A-level French course except (FREA01) and (FREA02)
- (2) FREB11, FREB12, BREB14

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of French. Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

See also Specialist Programmes in Modern Languages and Language and Literature.

FREA06Y Introductory French / J. Curtis and staff

A basic course in spoken and written French for students with very little or no background in the language.

Four class hours and one language laboratory hour per week. Evaluation is based on a final exam (1/3) and on term work (2/3), including written and oral exercises, tests and participation in class. Information on the textbook will be available in the College bookstore after June 1, 1980. Students wishing to take this course will be asked to take a placement test to identify those who may have the necessary competence for FREA16.

Exclusion: (FREA00)

Session: Winter Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA07S Elementary Conversation I

Intensive practice in spoken French through controlled situational oral work. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. The grade assigned will be Honours/Pass/Fail. Information will be available at a later date in Room H332A.

Exclusion: (FREA04)

Co-requisite: FREA06

Session: Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA16A Elementary French / W.J. Bancroft

Spoken and written French studies for students with some background in the language but without Grade 13 High School French.

This is an intensive course meeting eight hours per week, two hours per day, for the first term. Techniques of relaxation currently in use in Eastern and Western Europe will be used to accelerate the learning process. The final grade is based on a final examination (1/3) and on a term grade (2/3). Term work will include written and oral exercises, assignments and tests. Consult the College bookstore after May 1980 for details about text(s) to be used.

Exclusion: Grade 13 French or equivalent.

Prerequisite: FREA06. For those students who lack the prerequisite, admission to this course is through a placement test to be held soon after the beginning of class.

Session: Fall Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA16Y Elementary French / F. Mugnier

Spoken and written French studies for students with some background in the language but without Grade 13 High School French.

Four class hours per week are devoted to the study of written and spoken French. This course is designed to prepare the student to enter FREB06. The final grade is based on a final examination (1/3) and on a term grade (2/3). Term work will include written and oral exercises, assignments and tests. Consult the College bookstore after May 1980 for details about text(s) to be used.

Please note that the opportunity is provided to take this course in an intensive version in the Spring and during the Summer session (see FREA16A).

Exclusion: Grade 13 French or equivalent

Prerequisite: FREA06. For those students who lack the prerequisite, admission to this course is through a placement test, to be held soon after the beginning of classes.

Session: Winter Day

FREA17F/S Elementary Conversation II

Intensive practice in spoken French through controlled situational oral work. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. The grade assigned will be Honours/Pass/Fail. Information will be available at a later date in Room H332A. Some background in French is required.

Exclusion: (FREA05)

Co-requisite: FREA16

Session: Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREB02Y Introduction to Literary Analysis / J. Curtis

An introduction to methods of critical analysis through the study of selected works from the fields of French drama, fiction and poetry of the nineteenth and twentieth centuries.

FREB02 is intended to prepare the student for more advanced study in French and French-Canadian literature. It deals with a wide range of themes, styles and genres, and can also provide, for the non-specialist, an introduction to several major writers of the modern period.

Two hours of classes a week are devoted to *lecture expliquée*, class discussion and student presentations.

There will be at least one written assignment each term, class tests and a final exam; the weighting of assignments will be determined in consultation with students.

Prerequisite: Grade 13 French or equivalent or FREA16 (FREA00)

Corequisite: FREB06 (FREA01)

Session: Winter Day

FREB06A/B Language Practice I / L. Mignault, C. Jennings

This course is designed to help students reinforce and develop those language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level courses.

This is an intensive course designed to bring students to the level of entering FREB16 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. The class meets six hours per week for grammar review, vocabulary-building exercises, reading and discussion of texts, debates and other exercises that class and instructor may choose to devise. There are also two laboratory periods a week specifically designed for oral-aural practice. A final exam accounts for one-third of the final grade. The term grade is based on tests, written and oral assignments, class and laboratory participation. For students planning to specialize in French, FREB02 is recommended.

Exclusions: (FREA01), native or near-native proficiency in French

Prerequisite: Grade 13 French or FREA16 (or FREA00) or equivalent

Session: Fall Day, Spring Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREB06Y Language Practice I / C. Jennings and staff

This course is designed to help students reinforce and develop those language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level courses.

The class meets three hours per week for grammar review, vocabulary-building exercises, reading and discussion of texts representing various styles and cultures, composition, debates and exercises that class and instructor may choose to devise. There is also one laboratory period a week specifically designed for oral-aural practice. A final exam accounts for one-third of the final grade. The term grade is based on tests, written and oral assignments, class and laboratory participation.*

Please note that the opportunity is provided to take this course in an intensive version either in the Fall or Spring during the day and in the Summer session (see FREA01A or B). For students planning to specialize in French, FREB02 is recommended.

Exclusions: (FREA01), native or near-native proficiency in French

Prerequisite: Grade 13 French or FREA16 (or FREA00) or equivalent

Session: Winter Day, Winter Evening

FREB07S Intermediate Conversation I

Intensive practice in the spoken language through controlled situational oral work and discussion groups. The main objective of this course is to free students from their inhibitions when it comes to communicating orally in French. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. The grade assigned will be Honours/Pass/Fail. Information will be available at a later date in Room H332A.

Exclusions: (FREB04), (FREB05)

Prerequisite: (FREA00) or FREA16 or Grade 13 French

Corequisite: FREB06

Session: Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREB16B Language Practice II / C. Evans

A continuation of FREB06 work, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.

This is an intensive course designed to bring students to the level of entering FREB06 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet six hours per week, and there are two laboratory periods. The titles of required textbooks will be available at the College bookstore after June 1, 1980. The final grade is based on a number of written assignments, oral contributions, a mid-term test, and a final examination, the weighting of these elements to be determined by consultation.

Exclusion: (FREB01)

Prerequisite: FREB06 or (FREA01) or equivalent

Session: Spring Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREB16Y Language Practice II / C. Evans and staff

A continuation of FREB06 work, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.

This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet three hours per week and there is one laboratory period. The titles of required textbooks will be available at the College bookstore after June 1, 1980. The final grade is based on a number of written assignments oral contributions, a mid-term test and a final examination, the weighting of the elements to be determined by consultation.

Please note that opportunity is provided to take this course in an intensive version in the Spring term and in the Summer session (see FREB16B).

Exclusion: (FREB01)

Prerequisite: FREB06 or (FREA01) or equivalent

Session: Winter Day, Winter Evening

FREB17F/S Intermediate Conversation II / L. Mignault and Staff

Intensive practice in the spoken language through controlled situational oral work and discussion groups. Attention will be given to the comprehension of such major regional variants as that found in the Province of Quebec.

The main objective of this course is to free students of their inhibitions when it comes to communicating orally in French. As many opportunities as possible will be provided to practice the language and develop a mastery of relevant vocabulary so as to acquire a reasonable degree of confidence when speaking about everyday life and contemporary topics. One hour weekly for lecturing, vocabulary building and testing; two to three hours weekly for oral practice. Students should arrange to have no other courses scheduled during the times allotted for this course on the timetable. Evaluation is based on participation, tests, an oral project, and a final oral exam (fluency, quality of vocabulary and grammar, pronunciation). The grade assigned will be Honours/Pass/Fail.

Exclusions: (FREB04), (FREB05)

Prerequisite: FREB06 or (FREA01)

Corequisite: FREB16

Session: Fall Day, Spring Day (see 1980 Summer Courses and Programmes Brochure)

FREB20Y French Civilization: The Vision of Man / C. Evans

A study of French culture as it developed through the ages and of its basic features in present times. The course deals with social, economic, historical and artistic issues. Literary and other texts will be used for their cultural content.

Films and slides will be shown to supplement and illustrate the lectures. Each student will be given the opportunity to concentrate on a specialized topic such as "France since 1945", "The history of education in France", "Women in France", "French films" etc.

This course provides an overall understanding of French culture useful to students wishing to undertake literary studies, and could also be valuable to students in other fields.

The class will meet for an hour twice a week for lectures and student presentations. Students will be expected to make short class presentations and write one major research paper. There will be mid-term and term tests. Textbooks will be J. Thoraval, *Les Grandes Etapes de la civilisation française* and F. Giroud et J.J. Servan Schreiber dans *l'Express*.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREB25Y Introduction to French Linguistics / C. Evans

A study of the linguistic structure of French and of linguistic theories from the beginning of the twentieth century as applied to modern French.

The class will meet for an hour twice a week for lectures, presentations and discussions.

Students will be expected to make short class presentations and write one major research paper. There will be mid-term and term tests and a final examination.

Textbooks will be P. Delattre, *Principes de phonétique française* (Middlebury, 1951), A. Martinet, *Eléments de linguistique générale* (Paris, 1967), C. Désirat et T. Hordé, *La Langue française au 20^e siècle* (Paris, 1976).

Prerequisite: FREB06 (FREA01)

Session: Winter day

FREB29F French Drama of the Eighteenth Century / P. Moes

A study of some of the most important plays of the period with special emphasis on the concept of drama, its styles and techniques, which they illustrate.

The best known plays of the three major theatrical genres - tragedy, comedy and the so-called *drame bourgeois* - form the core of the course. In addition to reading, analyzing, discussing and appreciating them in their eighteenth century context, the class will look at these plays as practical demonstrations of certain theories concerning the nature of theatre, and what it is meant to communicate. This in turn suggests that the plays will be considered in their totality, that is, as more than purely "literature".

In the past required texts have included *Turcaret* (Lesage), *le Jeu de l'amour et du hasard* (Marivaux), *Zaire* (Voltaire), *le Mariage de Figaro* (Beaumarchais) and others. For the official list, consult the College bookstore. For additional reading, consult the College library.

There will be two hours a week of lectures, discussion periods, student presentations. The final grade is based on one major essay, oral and written reports as time permits, and one one-hour test at the end of term. Weighting to be determined in consultation with the students.

Prerequisite: FREB06 (FREA01)

Session: Winter day

FREB30F French Theatre of the Early Modern Period / C. Jennings

A study of trends in French drama from the late nineteenth century to the Second World War.

The course deals with such topics as the realist and surrealist movements, "poetic" drama and the revival of myth. Authors include Becque, Jarry, Claudel, Cocteau, Giraudoux, Anouilh and Montherlant. Students are urged to consider taking the companion course FREB31.

The class will meet for two hours per week; lectures and discussions will alternate. Both will be conducted in French. Active participation in class is urged.

There will be one to two essays, one oral presentation, one final exam or two quizzes. The weighting of assignments will be determined in consultation with students.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREB31S Contemporary French Theatre: The Theatre and the Absurd / C. Jennings

An examination of the philosophical concept of the "absurd" and its influence in modern French Theatre.

Authors studied will include Camus, Sartre, Ionesco, Beckett, Genet and Pinget. Students are urged to consider taking the companion course FREB30.

The class meets for two hours per week; lectures and discussions will alternate. Both will be conducted in French. Active participation in class is urged.

There will be one to two essays, one oral presentation, one final exam or two quizzes. The weighting of assignments will be determined in consultation with students.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREB34Y From Romanticism to Naturalism / G. Trembley

Man's vision of himself and of society in nineteenth-century French literature, studied through the works of major prose writers, including Stendhal, Balzac, Flaubert and Zola.

The class will meet for two hours per week. The course will be conducted as a seminar, with active participation of the students highly encouraged.

Evaluation will be based on four essays, two term tests and class participation.

Exclusions: (FREB32); (FREB33)

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREB36F French-Canadian Novel to 1945 / L.E. Doucette

A study of major French-Canadian novels from the mid-nineteenth century to the end of the Second World War.

FREB36 is intended for the general student of French as well as the specialist. Much more than its companion course, FREB37 (which students successfully completing FREB36 are strongly advised to take), it deals with historical, cultural and social developments in French Canada. Some knowledge of Canadian history in the period in question is, therefore, a decided asset. In 1980 texts will be: R. Girard, *Marie Calumet*; L. Hémon, *Maria Chapdelaine*; F.-A. Savard, *Ménard maître-draveur*; Ph. Panneton *Trente arpents*; G. Roy, *Bonheur d'occasion*. Very useful background reading: R. Robidoux et A. Renaud, *Le roman canadien-français*; J. Urbas, *From Thirty Acres to Modern Times*.

Methods of evaluating student performance will be established by mutual consent within the first week of classes. Requirements will include at least one essay, undertaken in consultation with the instructor.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREB37S French-Canadian Novel since 1945 / L.E. Doucette

A study of prose fiction in Quebec in the contemporary period. Some knowledge of Canadian history since the Second World War is very useful. Apart from introductory lectures during the first week or two of classes, this course follows a discussion-seminar format. The class meets for two hours each week.

Methods of evaluating student performance will be established by mutual consent within the first week of classes, and will include at least one essay. In 1981, texts will probably be: A. Langevin, *Poussière sur la ville*; G. Bessette, *Les pédagogues*; M.-C. Blais, *Une saison dans la vie d'Emmanuel*; R. Carrier, *La guerre, yes sir!*; A. Hébert, *Kamouraska*; J. Godbout, *Salut, Galarneau!* Please check with bookstore before buying texts.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREB40F French Classicism: Poetry and Prose / J. Curtis

A study of non-dramatic literature of the seventeenth century, with attention to works by such writers as Malherbe, Pascal, Boileau, La Fontaine, La Bruyère, La Rochefoucauld and Mme de Lafayette. The course deals with several major figures whose influence on French thought and literary practice was profound and lasting. Their works represent the development of satire, lyric poetry, the essay and the novel.

Classes, meeting twice a week, will be conducted as far as possible as seminars in French. Methods of evaluation will be discussed at the beginning of the course. Students should expect an exam or series of tests, some essay writing and class participation to count toward the final grade.

FREB41 is the recommended companion course.

Prerequisite: FREB06 (FREA01)

Session: Fall Evening

FREB41S French Classicism: The Theatre / J. Curtis

A study of the development of classical tragedy and comedy in the seventeenth century, with emphasis on themes and dramatic structure as seen through the major plays of the period.

The course concentrates on a few selected plays by Corneille, Molière and Racine, considered both as works of art (aesthetics) and as the literary expressions of a specific civilization (social history).

Classes, meeting twice a week, will be conducted as far as possible as seminars in French. Methods of evaluation will be discussed at the beginning of the course. Students should expect an exam or series of tests, some essay-writing and class participation to count toward the final grade.

FREB40 is the recommended companion course.

Prerequisite: FREB06 (FREA01)

Session: Spring Evening

FREB48Y Theoretical and Practical Phonetics / G. Trembley

A study of modern French pronunciation.

This course will comprise the following: (1) general principles of French phonetics, phonetic readings, phonetic transcription, corrective pronunciation, the study of the relationship between spelling and pronunciation; (2) analysis and discussion of recordings used in the language laboratory, with use of tapes in the classroom; (3) auditing of a wide range of recorded materials; genres, styles, social and regional variants.

The course involves practical exercises including phonetic drills and recordings of texts by the students. Evaluation is based on several "quizzes" throughout the year, a written test at the end of the 1st term, and a written and an oral test in the 2nd. Students will also be evaluated on their performance in the classroom.

Required textbook: P. León, *Prononciation du français standard*. The basic theoretical notions will be given by the instructor. Practical exercises will be taken from Léon as well as from other sources. Additional bibliography will be provided at the beginning of the year.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREB70Y The Twentieth Century: In Search of the Novel / S. Mittler (Spring), L. Mignault (Fall)

A study of writers primarily concerned with aesthetic and psychological questions in narrative fiction.

The course looks at the works of such authors as Gide, Proust, Breton, Mauriac, Céline, Queneau, Butor and Beckett.

Different approaches to problems of morality, society and human psychology, traditional and less traditional vocabulary and the spatial and temporal architecture of the novel will be examined in the light of an ongoing attempt to modify the shape and content of the traditional novel.

Two hours per week of lectures during which student/instructor interaction will be solicited.

Evaluation will be based on essays and/or oral reports and an exam.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREB81S Women's Consciousness in French Literature / C. Jennings

This course will attempt to trace the history of women's role in French literature and to analyze the concept of femininity as experienced and described by prominent female authors from the seventeenth century to the present. Authors studied will include La Fayette, Sand, Colette, Sarraute, de Beauvoir, and Wittig.

The class will meet for two hours per week; lectures and discussions will alternate. Both will be conducted in French. Active participation in class is urged.

There will be one to two essays, one oral presentation, one final exam or two quizzes. The weighting of assignments will be determined in consultation with students.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

FREC06Y Language Practice III / G. Trembley and staff

This course is a continuation of FREB01Y and includes reading, grammar, composition, translation and stylistic exercises, discussion and/or debates.

Emphasis in this course will be put equally on the oral and written components of French through (a) the study of grammar, (b) the reading and analysis of texts in modern prose, (c) the writing of essays in French, (d) discussions in the classroom. The two required textbooks (J. Darbelnet, *Pensee et Structure*; *Contes modernes* 3rd edition), being used in conjunction, are intended to reinforce the students' proficiency in the language. Four compositions in each semester. One mid-term written test in each semester. One final written test in each semester. One oral test in the second semester. Active participation in classroom discussions will also be counted in the instructor's final evaluation.

Exclusion: (FREC01)

Prerequisite: FREB16 or (FREC01)

Session: Winter Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREC02F

C03S

C04F

C05S

C07S

C90Y Supervised Reading

These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, methods of approach and evaluation. The material studied should bear some relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses.

Interested students should contact Prof. S. Mittler.

Prerequisites: One B-level course in French, excluding FREB11, FREB12 and FREB14; permission of instructor

Session: Winter Day

FREC09Y Problems in Translation / J. Curtis

A comparative study of expression in English and French, including practice in translating and analysis of selected examples of the translator's art.

Basic terminology and concepts of comparative stylistics will be studied in *Stylistique comparée du français et de l'anglais* by Vinay and Darbelnet (pub. Beauchemin; text and workbook). On the practical side, there will be translating and discussion of passages in English and in French representing various styles and levels of expression: formal, colloquial, technical, literary, journalistic. The class meets two hours a week for discussion and practical work.

The final grade will be based on class preparation, term-tests and/or an exam, and written assignments including a major project in the second term.

Prerequisite: FREB16 or (FREC01)

Session: Winter Day

FREC16Y Advanced French

A language practice course which continues the FREB06-FREB16-FREC06 sequence; it includes reading and composition, translation and stylistics, oral reviews and debates. Information will be available at a later date in Room H332A.

This course is offered only in the immersion programme of the Scarborough Language Institute.

Exclusion: (FREC99)

Prerequisite: FREC06 or (FREC01)

Session: Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREC22Y Introduction to Medieval French Language and Literature / L.E. Doucette

An introduction to old French language and the study of representative works in the following genres: epic, *courtois* and *bourgeois* literatures.

The first third of this course will concentrate heavily on the language aspect of the period. Thereafter we shall move rapidly towards a more participatory format, with more and more attention paid to content, as opposed to form. Precise texts have not yet been established (check the bookstore after May 1, 1980), but will certainly include the *Chanson de Roland*, Chrétien's *Erec et Enide*, *Maistre Pierre Pathelin*, Villon's *Poésies choisies*, and a general text.

The course meets two hours a week for lectures and discussion. There will be an examination (value to be decided) on the language aspect of the course at the end of the first semester. Otherwise, methods of evaluation will be determined by mutual consent.

Prerequisite: One B-level course in French (completed) excluding FREB11, FREB12 and FREB14.

Session: Winter Day

FREC24S The French Novel in the Eighteenth Century / P. Moes

An advanced course specializing in the detailed analysis of the major novels of the period.

Although it is not essential, students who have taken FREB24 will find that this course provides them with a useful background. Since the novel is not in our period a very clearly established literary genre, the emphasis will fall on the variety and evolution of the form and subject matter with reference to the major novels of the period from *Gil Blas* to *Paul et Virginie*. The reading list will include texts by Lesage, Voltaire, Montesquieu, Prévost, Diderot, Rousseau, Choderlos de Laclos and Bernardin de Saint-Pierre.

There will be two one-hour classes of lectures a week, discussion periods, and student presentations. The final grade is based on one major essay, two or more oral reports, and an one-hour test at the end of the term.

Prerequisite: One B-level course in French, excluding FREB11, FREB12 and FREB14; or permission of instructor.

Session: Winter Day

FREC34F Cross-currents in Contemporary French Fiction / S.Mittler

An examination of the varied thematic and technical perspectives open to contemporary novelists. The course will deal with such topics as: reflection on wartime collaboration with Chaix; revolution and fantasy in Queneau; Rinaldi's portrait of Corsica in disintegration; the anti-novel of Butor; and Tournier's vision of the modern Robinson Crusoe in a world without others. Texts will include M. Chaix, *Les lauriers du lac de Constance*; R. Queneau, *Les fleurs bleues*; A. Rinaldi, *La maison des Atlantes*; M. Tournier, *Vendredi ou les limbes du Pacifique*; M. Butor, *L'emploi du temps*.

Classes will meet for two hours a week for lectures, and discussion. Evaluation will be decided by in-class discussion on the basis of one major essay, one class assignment, final exam and class participation.

Prerequisite: One B-level course in French, excluding FREB11, FREB12 and FREB14; or permission of instructor.

Session: Winter Day

FRENCH COURSES NOT OFFERED in 1980-81**FREA11F Man and Society in French Fiction**

Prerequisite: Reading knowledge of French tested by an entrance examination for students without grade 13 French

FREA12S Man and Society in French-Canadian Fiction

Prerequisite: Reading knowledge of French tested by an entrance examination for students without Grade 13 French

FREB11F Topics in French Literatures I: Politics in Quebec Literature

Prerequisite: Reading knowledge of French tested by an entrance examination for those without Grade 13 French

FREB12S Topics in French Literatures II: Love and Honour

Prerequisite: Reading knowledge of French tested by an entrance examination for those without Grade 13 French

FREB14S Topics in French Literatures III: The Rural Novel in Quebec

Prerequisite: Reading knowledge of French tested by an entrance examination for students without Grade 13 French

FREB24Y French Thought and Literature in the Age of Enlightenment (1715-1789)

Prerequisite: FREB24

FREB26Y The Romantic Current in French Literature

Prerequisite: (FREA01) FREB06

FREB37S French-Canadian Novel since 1945

Prerequisite: (FREA01) FREB06

FREB38F The Theatre of French Canada

Prerequisite: (FREA01) FREB06

FREB39S Workshop in Modern French Theatre

Prerequisite: FREB06 (FREA01) or equivalent language ability

FREB42F General History of the French Language

Prerequisite: (FREA01) FREB06

FREB43S The French Language in Canada

Prerequisite: (FREA01) FREB06

FREB49Y The Twentieth Century: The Search for Identity

Exclusion: (FREB35)

Prerequisite: (FREA01) FREB06

FREB80F Images of Women in French Literature

Exclusion: HUMB42

Prerequisite: (FREA01) FREB06

FREC10S Textual Analysis

Prerequisite: At least one B-level course in French, excluding FREB11, FREB12 and FREB14

FREC20H Cinema and Literature

Prerequisite: One B-level course in French or permission of instructor

FREC25Y Literature of the Renaissance

Prerequisite: At least one B-level course in French other than FREB11, FREB12 or FREB14

FREC39S French-Canadian Poetry

Prerequisite: At least one (completed) B-level course in French, excluding FREB11, FREB12 or FREB14

FREC40Y Modern French Poetry from Baudelaire to Valery

Prerequisite: One B-level course in French, excluding FREB11 and FREB12

FREC60F Modern Literary Theorists

Prerequisite: One B-level course in French Literature

GEOGRAPHY

Assistant Chairman: M.F. Bunce

The Geography curriculum includes courses on diverse topics having to do with the development of landforms, the evolution and experience of urban and rural landscapes, the management of natural resources, and the spatial expression of economic processes. It therefore offers students a variety of potential themes which can be followed either separately or in combination towards a B.A. or B.Sc. degree.

The Specialist and Major Programmes in Geography are designed to give students the flexibility to choose courses that relate to their own interests while providing coherence and direction in course sequences and combinations. These Programmes are intended to develop not only geographical concepts but also skills such as cartography and statistical analysis. They provide students with a sound knowledge of the discipline and with a good basis for a career, whether in planning, business, teaching or various government agencies.

Specialist Programme in Geography

Supervisor: A.G. Price

The Specialist Programme in Geography offers the opportunity to explore some aspect of the discipline in considerable depth without sacrificing the breadth that characterises the discipline.

It is possible to obtain a Specialist in Geography by following one of two options.

The *Human Settlements* option comprises courses that have to do especially with urban and rural development and planning, while the *Environmental Geography* option is concerned with environmental management issues and the physical systems which underlie them. These two options are by no means mutually exclusive, several courses are listed in both of them and students will be encouraged to take courses from the option other than the one they have selected. However, students who wish to take a B.Sc. must follow the Environmental Geography option.

OPTION A**Human Settlements**

The requirements for this Programme are twelve full-course equivalents as follows:

1. GGRA04Y and GGRA05Y
2. GGRB02Y or GGRB25Y
3. GGRC01 and GGRC12F/S
4. At least three full-course equivalents from GGRB01Y, GGRB05Y, GGRB06Y, GGRB13Y, GGRB17Y, GGRB26Y
5. At least two and one-half full-course equivalents from GGRC04F/S, GGRC13F/S, GGRC15Y, GGRC17Y, GGRC18F/S, GGRC20F/S, GGRC24F/S, GGRC26Y, GGRC29F/S
6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

OPTION B**Environmental Geography**

The requirements for this programme are twelve full-course equivalents as follows:

1. GGRA04Y and GGRA05Y
2. GGRB02Y or GGRB25Y
3. GGRC01Y and GGRC12F/S
4. At least three full-course equivalents from GGRB01Y, GGRB03Y, GGRB07Y, GGRB15Y, GGRB19Y, GGRB24Y

5. At least two and one-half full-course equivalents from GGRC05F/S, GGRC06F/S, GGRC15Y, GGRC24F/S, GGRC25F/S, GGRC28Y, GGRC29F/S, GGRC30F/S
6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

Major Programme in Geography

Supervisor: J. Miron

The Programme aims to introduce students to the fundamentals of the discipline, and to provide the opportunity to explore some of the wide range of specialized aspects of the field. The Programme may be taken as a single concentration within a three-year degree or in combination with another Major Programme in a related subject area such as another Social Science, Biology or History. It is also an appropriate supplement to Specialist Programmes in these areas.

The Programme requires completion of the following seven courses:

1. GGRA04Y and GGRA05Y
2. GGRB25Y (GGRB02Y may be substituted)
3. At least two full-course equivalents from:
GGRB01Y or GGRB24Y
GGRB03Y or GGRB19Y
GGRB05Y or GGRB06Y
GGRB13Y or GGRB17Y
GGRB07Y or GGRB15Y
4. At least two full-course equivalents from:
GGRC13F/S, GGRC15Y, GGRC17Y,
GGRC18F/S, GGRC20F/S, GGRC26Y,
GGRC27Y, GGRC28Y, GGRC29F/S

GGRA04Y The Nature of Human Geography / M.F. Bunce

Comparison of the major approaches to human geography - historical process, spatial organization, resources and environment, landscape and culture.

The course aims to identify and discuss some of the fundamental concepts of human geography, and to demonstrate the nature of the major approaches to the subject. The course consists of four main sections: i) human settlements and urbanization, ii) spatial patterns and disparities, iii) environmental and resource use and abuse, iv) modern landscapes and urban design. The teaching method will consist of lectures and tutorials. Evaluation will be based on assignments and two examinations.

Exclusion: (GGRA08); (GGRA09)

Session: Winter Day, Summer Evening

GGRA05Y Introduction to Physical Geography / R. Bryan and A.G. Price

An introduction to principles of physical geography. The course is designed for specialists in geography but is also suitable for non-specialists interested in obtaining some introduction to physical geography. The course is designed to introduce students to the basic physical environmental systems operating at the surface of the earth, the interrelationships between systems and the impact of man upon such systems.

The content should be of general interest to students in both the physical and life sciences. The teaching method consists of lectures and laboratories. Evaluation will be based on bi-weekly laboratory assignments, mid-year and final examinations.

Exclusions: (GGRA06); (GGRA07); (GGRA08); (GGRA09)

Session: Winter Day

GGRB01Y Geography of Resources / W. Cowie

Problems of resource use with particular reference to their environmental setting: (i) definition and classification of resources, (ii) special problems relating to agricultural resources, (iii) specific aspects of the use of non-agricultural resources, and finally (iv) an examination of the use, misuse and abuse of resources.

Resource issues are examined in two broad contexts: global resource problems and policies; themes and problems in Canadian resource management. The specific subjects discussed include: the world food problem; global patterns of energy consumption and production; use and management of the world's minerals; international responses to resource inequalities; water development and management in Canada, pollution, conservation, environment and the law, problems of land management in Canada. The teaching method consists of two hour lectures per week. Evaluation will be based on two three-hour examinations, two essays.

Prerequisites: GGRA04 or GGRA05.

Session: Winter Day

GGRB02Y Analytical and Quantitative Methods in Geography / J. Miron

An introduction to classical and Bayesian probability theory, frequency and sampling distributions, population parameters and statistical estimation, hypothesis testing, correlation and regression, sampling theory, and analysis of variance. Applications to geographic problems include spatial sampling, trend surface analysis, evaluation of spatial patterns, and spatial auto-correlation. Elementary computer programming is also included.

The teaching method consists of two hours lectures, and two hours labs per week. Evaluation will be based on weekly assignments; mid-term, December and final examinations.

Exclusions: ECOB11, PSYB07; (STAB52, STAB57)

Prerequisites: GGRA04 or GGRA05

Session: Winter Day

GGRB03Y Climatology / G. Szeicz

An introduction to the scientific analysis of world climate through study of the governing physical and dynamic controls. The major zonal climates of the earth are described including an examination of atmospheric circulation, global energy and moisture balances. In the second half of the course several important applied aspects of climatology will be examined. Tutorials will include use of simple climatological instruments and analysis of weather maps.

Some of the major topics are: Radiation and energy balance on a small scale; surface effects on these balances; gas flow in the atmosphere, atmosphere motion and winds; atmospheric water vapour and clouds, global circulation; air masses and fronts. Climatic variables, their measurements and use. Climatic change and the effect of climate on social and industrial activities. Teaching method consists of lectures and laboratories. Evaluation based on a term test, term work and a final examination.

Prerequisites: GGRA05

Session: Winter Day

GGRB05Y Urban Geography / P. Moore

A study of the forces and processes which give rise to urban places, which influence the growth and development of cities and systems of cities, and which influence the location of various types of human activities in the city.

The first half of the course focuses on the city in history and on urban systems - their evolution, regulation, classification, and abstract representation. The second half is concerned with the internal structure of the city, concentrating on residential, commercial and industrial land use patterns, and on transportation, migration and planning. Examples will be drawn in part from Canadian cities. There will be two hours of lectures per week, and evaluation will be based on an essay, term test, research paper and final exam.

Prerequisites: GGRA04 or GGRA05

Session: Winter Day

GGRB06Y The Geography of Economic Activities / P. Moore

The course aims to explain regional variations in economic activity and development, primarily by outlining theories and models concerned with the location of economic activity, interaction, and development, and by assessing world and Canadian regional patterns in the light of these theories and models.

The major topics covered include non-commercial economies, agricultural location, industrial location, the location of tertiary activities, transportation, trade, migration, diffusion, economic development and underdevelopment, and regional disparities. There will be two hours of lectures per week, and evaluation will be based on an essay, term test, research paper and final exam.

Prerequisites: GGRA04 or ECOA01 or COMA01.

Session: Winter Day

GGRB13Y Modern Landscapes and Built Environments

The character and architectural and social origins of twentieth century landscapes, and the ways in which places and landscapes can be appreciated and designed.

In the fall term the features of modern landscapes and their technological, cultural and architectural origins will be discussed. In the spring term emphasis will be on the experience and appreciation of landscapes, and on the problems and deficiencies of twentieth century built environments. Various approaches to environmental design will be examined. Field trips are planned during the fall term. Evaluation will be based on studies of particular landscapes, essays and an examination.

Prerequisites: GGRA04; students with GGRA05 admitted with permission of instructor.

Session: Winter Day

GGRB15Y Coastal Geomorphology / B. Greenwood

The coastal zone as a physical environment is immensely variable, complex and extremely fragile. Man's use of the coastal zone is accelerating at a greater pace than our understanding of the physical processes which occur naturally in the environment. This course is designed to make students aware of the physical nature of the coastal environment, its historical development and the problems which arise from man's use and abuse of it. The mechanics of coastal processes will be applied to a study of coastal erosion, siltation, pollution, etc. Field trips during the fall term.

Prerequisite: (GGRB19)

Corequisite: None but GGRB02 highly recommended.

Session: Winter Day

GGRB17Y Rural Geography / M.F. Bunce

Concepts of rurality, evolution and elements of rural settlement, rural resource base, agricultural land use, contemporary issues in rural regions.

A thematic study of the geography of rural environments. Lectures and seminars will examine the distinctiveness of rurality, the evolution, elements and patterns of rural settlement, the rural resource base, agricultural land use, and contemporary issues in rural regions. These themes will be discussed in various cultural contexts. The teaching method will consist of lectures and seminars. Evaluation will be based on assignments, research projects and a final examination.

Exclusion: (GGRC02)

Prerequisites: GGRA04; students with GGRA05 admitted with permission of instructor.

Session: Winter Day

GGRB19Y General Geomorphology / B. Greenwood and R. Bryan

Processes of surficial material development and landform evolution; weathering processes and soil development; hillslope form and process; principles of fluvial geomorphology and drainage system analysis; introductory coastal geomorphology; processes of landform evolution in arid regions; the geomorphic role of climatic changes; Pleistocene and present day glaciation; geomorphology as an applied geotechnical field.

The teaching method consists of field excursions, laboratories, lectures. Evaluation will be based on weekly laboratory assignments, mid-year and final examinations.

Prerequisite: GGRA05

Session: Winter Day, Summer Day

GGRB24Y Environmental Pollution / A.G. Price

The physical causes of environmental degradation are treated, with emphasis on the pollution of water systems by human usage. The course outlines the types and sources of major pollutants and suggests strategies to reverse or avoid the deteriorations caused by them.

The aim is to examine the complexity of the controls in undisturbed water-air systems, and to give students an understanding of how the residue of human population and usage of water and solid resources change the controls and degrade the quality of natural systems. Teaching method: two hours lecture and one hour lab. per week. Evaluation: two exams and one major assignment.

Exclusion: GGRC23

Prerequisite: GGRA04 or GGRA05

Session: Winter Day

GGRB25Y Geographic Methods / M.F. Bunce and A.G. Price

Introduction to basic methods in geography, including elementary data handling, graphic and cartographic representation, map and air photo interpretation, field study and survey methodology.

The aim of the course is to equip students with skills necessary for the analysis of various geographical problems. Teaching method will consist of one two-hour lecture and one two-hour laboratory per week. Evaluation by frequent exercises and two examinations.

Exclusions: GGRA03. Students who have completed both GGRB21 and B22 are also excluded from taking this course for credit.

Prerequisite: GGRA04 or GGRA05

Session: Winter Day

GGRB26Y Africa: Perspectives in Geography and Development / W. Cowie

Patterns of regional and national variation in Africa are discussed. Emphasis is placed on the process of historic, ecological and social change, and its impress on the African landscape. Consideration is given to the role of Africa in the modern world economy as well as the patterns and processes of urbanization, industrialization, and regionalization.

Among the themes emphasized, particular prominence is given to the forces and factors which make the African continent a source of economic, political and social instability. The teaching method consists of one two-hour lecture per week. Evaluation will be based on a final exam and two essays.

Prerequisite: GGRA04 or GGRA05. Students with a background in other social sciences admitted with permission of instructor.

Session: Winter Evening

GGRC01Y Supervised Research / Coordinator: B. Greenwood

This course provides an opportunity to engage in a research project under the supervision of an interested member of faculty. The project will culminate in a written report in the form of a dissertation. This may be based upon the results of library or archival research, field study, data analysis or other appropriate methods. Students will meet as a group with the coordinator as well as having frequent contact with their supervisor. Evaluation will be based upon the research and the written report.

Prerequisites: Any fifteen full-course equivalents. By the end of the year in which the student takes this course, at least eight full-courses equivalents in Geography (not including GGRC01) must have been completed.

Session: Winter Day

GGRC04F Urbanization and Residential Geography / P. Moore

A study of residential areas in the modern city, with a strong focus on the Toronto region. The overall emphasis is on the manner in which residential geography is a part of, as well as a reflection of, important political, economic and social processes.

The course begins with a consideration of past and present trends in urbanization, and their relevance for regional planning and urban government. The major focus of the course is on residential differentiation or segregation and associated processes of neighbourhood change in the city, and on the quality of the residential environment, the provision of public goods, planning and the political processes involved. Each two hour class will consist of a general lecture, a seminar presentation by a student and a discussion. Evaluation will be based on seminar, discussion and an examination.

Prerequisite: GGRB05

Session: Winter Evening

GGRC05F Theory and Method in Modern Quantitative Geomorphology / B. Greenwood

Theoretical models of landscape evolution in relation to recent experimental and field studies on geomorphological processes. Seminar and project work with considerable reading assignments. Limited enrolment: 20.

Prerequisites: GGRB19, GGRB07 or GGRB15

Corequisites: None, but GGRB02 is strongly recommended.

Session: Winter Day

GGRC12F Contemporary Issues in the Philosophy of Geography

An examination of the major themes in contemporary geography and a critical discussion of the main philosophical positions adopted by geographers (positivism and the philosophy of science, pragmatism, philosophy of history, etc.). Alternative philosophical approaches of increasing popularity (phenomenology, Marxism, conceptual analysis) are also considered.

The aim of this course is to examine the relationships between the various types and approaches of geography, and to demonstrate some of the implications of the most widely adopted approaches. The teaching method consists of lectures and seminars. Evaluation will be based on several annotations of papers and books, an essay integrating these, and an examination.

Prerequisites: Any ten full-course equivalents. By the end of the year in which the student takes this course at least five other full-course equivalents in Geography must have been completed.

Session: Winter Day

GGRC13S A Theoretical Approach to Political Geography / W. Cowie

An examination of theories and principles postulated to explain the relationships between geographical and political phenomena on various scales - local, regional and worldwide. The two main approaches emphasized are morphological and functional. The basic theme of the course is that an understanding of theoretical details is essential for the proper evaluation of the ever changing geographical conditions and political processes in different parts of the world. Limited enrolment: 20.

After discussing the present status of political geography the course will proceed to an analysis of the evolution of the modern state. Using the notion of the state as the basic concept for the examination of modern political-geographic phenomena the course will proceed to examine the various modes of geographic integration and disintegration including: acculturation, imperialism, federalism (modes of integration); populism, nationalism, revolution (modes of disintegration). Where possible Canadian examples will be used. The final part of the course will discuss the geopolitical characteristics and importance of frontier and boundary areas. The teaching method consists of one two-hour lecture per week. Evaluation will be based on one three-hour examination, two short assignments and class participation based on assignment work.

Prerequisites: Any two B-level courses in Geography or Political Science.

Session: Winter Day, Summer Day

GGRC15Y Soil Management and Conservation / B. Bryan

Application of soils geography to problems of resources use and management. Soil erosion and conservation procedures. Drainage and reclamation of wet soils; reclamation of polder soils. Soil surveys and agriculture. Problems of soils in Arctic and sub-Arctic. Soils of arid and semi-arid lands; irrigation salinization, reclamation.

Prerequisites: (GGRB10) or GGRB19

Session: Winter Day

GGRC18S Urban Transportation Policy Analysis / J. Miron

An introduction to the analysis of urban transportation planning problems. Topics include the spatial impacts of transportation improvements, mass transit policy, environmental impacts, and evaluation in transportation planning.

The teaching method consists of three hours lectures per week. Evaluation will be based on a term paper and a final examination.

Prerequisite: Any two B-level courses in Social Sciences.

Session: Winter Evening

GGRC20S Rural Planning and Development / M.F. Bunce

The special problems of rural settlement and land use in the modern world and of associated planning and development policies. Emphasis will be placed upon the role of government policy in the shaping of rural landscapes and societies.

The main topics will include agricultural and rural development programmes, policies for marginal and remote areas, agricultural land preservation, rural landscape conservation, rural settlement strategies. Examples of particular policies and programmes will be used as case studies in workshop sessions. Evaluation will be based upon workshop reports.

Prerequisites: Any three B-level courses in Geography. Students with a background in other Social Sciences disciplines may be interested in this course: they will be admitted with permission of instructor.

Session: Winter Day

GGRC24S Advanced Quantitative Methods / J. Miron

A treatment of advanced quantitative methods currently in use in geography. Topics to be included will vary with the interests of staff and students and may be drawn from among the following: Multivariate statistical analysis including principal components, factor analysis, and discriminant analysis, systems modelling including estimation, prediction and simulation, and advanced probability models. An emphasis is placed on both the application of such tools and evaluations of their limitations.

Prerequisite: GGRB02

Session: Winter Day

GGRC26Y The Geography of Underdevelopment / W. Cowie

The definition, nature, performance and problems of underdeveloped areas. Underdevelopment as a phenomenon, a condition and a process and their expression as geographically distinct realities. Considerable reading and constant participation by the student through discussions and seminars. A background in Economics would be useful.

The course examines the spatial dimensions of development and underdevelopment in both the traditional and modern sectors of less developed countries. The changing spatial organization of territory is examined in light of altered population/land ratios and urban/rural ratios. Among the particular themes covered are: colonization, urbanization; the spatial impress of colonialism; rural-urban settlement system relations; migration; city size and structure, trade and marketing. The teaching method consists of lectures, two hours per week, student presentations, one hour per week. Evaluation will be based on one three-hour examination, two essays and class participation.

Exclusion: GGRB08

Prerequisites: Any two B-level courses in Social Sciences.

Session: Winter Day

GGRC28Y The Hydrology of Surface and Subsurface Waters / A.G. Price

The course presents a quantitative study of the processes governing the behaviour of water at or near the surface of the earth. Conventional techniques of analysis and prediction are considered as well as some of the applications to problems of water resources management planning.

Many of our problems, particularly those involving extreme hydrologic events, stem from two sources. First, our lack of understanding of the operation of natural hydrologic processes, and second from our inability to predict and understand the consequences of our manipulations of the unforeseen consequence of other activities. It is hoped that this course will result in a better understanding of those controls, and in a working knowledge of ways in which hydrologic risk can be assessed. The teaching method consists of two one-hour lectures per week and one one-hour laboratory per week. Evaluation will be based on two exams, term one and term two; field projects, terms one and two; major assignments, term two; laboratories, terms one and two.

Exclusion: (GGRB18)

Prerequisite: GGRB02 or GGRB03 or GGRB19

Session: Winter Day

GGRC30F Climatology in the Field / G. Szeicz

An examination of the environmental aspects of the surface energy exchanges that are important in some advanced branches of physical geography and ecology. Instrumental measurements of radiative and mass fluxes (i.e. water vapour) are linked to the behaviour of vegetative cover, and the resultant physiological responses on the ecosystem are quantitatively evaluated. Leaf temperature, soil moisture status, leaf area, etc. are linked to environmental parameters and their role in the local surface energy balance is shown.

Some major topics are: Solar and long wave radiation balance over different surfaces; penetration of solar radiation in plant communities; effect of soil moisture on stomatal behaviour and productivity of ecosystems; models of water and carbon flow through ecosystems.

Teaching method: lectures and practical sessions.

Evaluation: term assignments and final examination.

Prerequisite: GGRB03Y

Session: Winter Day

COURSES NOT OFFERED in 1980-81**GGRB07Y Geomorphology: The Pleistocene Epoch**

Prerequisite: GGRB19

Corequisites: GGRB02; GGRB03

GGRB16Y Local Area Studies

Prerequisite: GGRA04 or GGRA05

GGRC17Y Landscape Interpretation

Prerequisites: GGRB16; students with other geography courses or from other disciplines admitted with permission of instructor.

GGRC25S Sedimentary Models

Prerequisites: GGRB19, GGRB07, or GGRB15 or GGR311 (St. George)

GGRC27Y City Planning Analysis and Regional Science

Exclusion: GGRB20

Prerequisites: Two of ECOA01, GGRB05, GGRB02, (or equivalent statistics course).

GEOLOGY

Discipline Representative: J.A. Westgate

Geology is concerned with the origin and evolution of the Earth as evidenced primarily through the study of rocks. The subject is multidisciplinary in nature and draws heavily upon the physical and biological sciences. Only two first-year courses are offered at present so that there is no Specialist Programme in the subject. However, Geology can be meaningfully combined with Programmes in Chemistry, Physics, Astronomy, Biology, Geography, Anthropology, and Quaternary Studies. GLGA01Y is the core introductory course that is the prerequisite for second-year Geology courses offered on the St. George campus, whereas GLGA02 is a terminal introductory course designed to show the relevance of the subject in our daily lives. Further details on the Geology programme at the University of Toronto are given in the booklet entitled: "Undergraduate Studies in Geology at the University of Toronto", which is available from the Discipline Representative and Student Services.

GLGA01Y Planet Earth: an Introduction to Geology / J.A. Westgate

Fundamental concepts of physical and historical geology are discussed in the context of the Earth as a planet. The first part of the course deals with the composition, structure and origin of the Earth and the physical processes that operate on and in it. The second part details the chronological succession of physical and biological events on the Earth as revealed in the rock record.

Specific topics include: evolution of the Earth and its place in Space; geologic time; Earth materials and the rock cycle; composition and structure of the Earth; internal geological processes, including igneous activity, metamorphism, deformation of the Earth's crust; plate tectonics; surficial geological processes and the history of the Earth with emphasis on North America.

The suggested first year programme in Geology includes MATA26Y or MATA55Y, CHMA02Y/CHMA01Y, PHYA02Y and BIOA03Y. The course structure is lectures, laboratory work and field trips. In addition, students will be required to view films on Earth Science that will be shown each week in the Audio-Visual Department. Evaluation consists of several theory and laboratory examinations, laboratory exercises and reports on field excursions.

Exclusion: GLG140H and GLG141H (St. George), GLGA02

Prerequisite: None, but one Grade 13 course in Mathematics and Grade 13 Chemistry or Biology or Physics are strongly recommended.

Session: Winter Day

GLGA02S Geology and Land Use Planning / W. Tovell

A course designed to show the relevance of geology in our daily lives. The fundamental theme is on problems of recognition, prediction, and control of geologic hazards and processes and their significance for optimum land use planning. No prior knowledge in the Earth Sciences is required.

Specific topics include: volcanic activity, earthquakes, and landslides; subsidence and collapse; surface waters and groundwater; waste disposal and treatment; resources and planning. The course structure is two lectures per week and a field excursion. Evaluation is based on a one hour mid-term examination and a two hour final examination. A report on the field excursion is required.

Exclusion: GLGA01Y

Session: Winter Day

GERMAN

Discipline Representative: H. Ohlendorf

Courses in German provide opportunities for the study of the language and of the literature of Germany, Austria and part of Switzerland. Language and literature courses may be combined in various ways by students who have completed the prerequisite courses. Students who intend to take a Major Programme in German Language or German Language and Literature, or who intend to enrol in the Specialist Programme in German Area Studies will find the Programme requirements below. All Programmes include a sequence of language courses in order to maintain continuity in the development of practical skills.

Specialist Programme in German Area Studies

Supervisor: H. Ohlendorf

The German-speaking areas in Europe have throughout their history exerted a major formative influence on Western civilization, be it in the fields of politics and economics or through their contributions to literature, the arts, and philosophy. Awareness of this significant fact is clearly reflected in a large number of courses in the Social Sciences and the Humanities at Scarborough College.

In order to offer the student of German Area Studies a coherent interdisciplinary plan of study we have grouped these courses below. This is a Programme of twelve full-course equivalents.

Required for every student are the German language courses GERB19Y, GERB20Y, GERC10Y, and two full-course equivalents in German Literature. Four full-course equivalents are to be chosen from one of the core groups A, B, or C. The remaining three full-course equivalents should be selected from groups A - E, excluding your core choice.

A. History

HISA01Y	The European World
HISB17Y	Germany in the 19th and 20th Centuries
HISC17Y	European Society and Culture Between the World Wars
HISC19S	Weimar Culture

plus one course from among:

HISB13Y	Europe in the Reformation Era 1500-1650
HISB15Y	Aspects of European Social History 1789-1918
HISB18Y	Europe under the Enlightened Despots

B. The Arts

MUSA01Y	Introduction to Music
MUSB02F	Music of the Classic Period
MUSB06F	Music of the Romantic Period

plus one full course equivalent from among the following:

FARA12F	Renaissance and Baroque Art
FARB10F	Carolingian and Romanesque Art and Architecture
FARB11F/S	Gothic Architecture
FARB16S	The Arts in Northern Europe ca. 1400-1475
FARB22Y	The Arts in Northern Europe ca. 1400-1500
FARB45F/S	Rembrandt
FARB48F	Art from 1900-1950
FARC01F/S	Readings in Art History: Marxism and the Arts
FARC16F/S	Expressionist Trends in Western Art From Van Gogh to Jackson Pollock
MUSB01S	Music of the Twentieth Century
MUSB05S	Music of the Baroque Era
MUSB07F	The Symphony
MUSB13F/S	Bach

C. Philosophy

PHLA01Y	Fundamental Questions of Philosophy
PHLB12F/S	Marx and Marxism
PHLB30F/S	Existentialism
PHLB48F	Philosophy in the Later Modern Age I
PHLB49S	Philosophy in the Later Modern Age II

plus one full-course equivalent from among the following:

PHLB03F/S	Philosophy and Art
PHLB04F/S	Philosophy in Literature
PHLB15F/S	Philosophy of History
PHLB60F/S	Existence and Reality
PHLB70F/S	Philosophy of Science
PHLB80F/S	Philosophy of Language
PHLB46F	Philosophy in the Early Modern Age I
PHLB47S	Philosophy in the Early Modern Age II

D. Politics and Economics

ECOB61S	International Economics: Finance
ECOB62F	International Economics: Trade Theory
ECOB68F/S	Comparative Economic Systems
ECOB82Y	European Economic History
ECOC07F	The Economics of Karl Marx
POLB71Y	Political Thought of the Eighteenth and Nineteenth Centuries
POLB85Y	Comparative Politics of Industrial Societies
POLC70Y	Twentieth Century Political Thought
POLC86F/S	Intergovernmental Relations in the European Economic Community

E. Drama and Humanities

DRAB02Y	The Directors' Theatre
DRAB04Y	The History of the Theatre II
DRAC11Y	Individual Studies in German Theatre and Drama
HUMB29S	Religion and Western Culture
HUMB43F/S	The Emergence of Modern Prose
HUMB44F/S	Disaster and the Literary Imagination
HUMC19Y	Contemporary Fiction and its Background

Students interested in German Area Studies should contact the Supervisor as soon as possible to ensure that a satisfactory and cohesive sequence of courses is selected.

Major Programme in German Language

Supervisor: H. Ohlendorf

The Programme consists of the following courses:

GERA09H	Language Practice I
GERA10Y	Introductory German
GERB19Y	Intermediate Conversation
GERB20Y	Intermediate German
GERB24F/S	Civilization in Modern Germany
GERB33F/S	Seminar in the History of the German Language
GERB50F/S	Methods of Interpreting Literature
GERC10Y	Advanced Conversation and Composition
LINA01Y	General Linguistics

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of German. Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their Programme as soon as possible with the Supervisor.

Major Programme in German Language and Literature

Supervisor:

The Major in German Language and Literature consists of seven full-course equivalents including GERB19Y, GERB20Y and GERC10Y. At least four full-course equivalents must be taken in German Literature. GERA09H and GERA10Y do not count towards the requirement.

See also the Specialist Programmes in Modern Languages and Language and Literature.

GERA09H Language Practice I / U. Sherman

A practicum offered in conjunction with GERA10Y. The focus is on pronunciation and elementary oral composition.

This practicum is designed to reinforce and supplement by oral drills and practice the grammar work done in A10Y, as well as to expand the students' skills of expression and comprehension in German. There are two hours of supervised language laboratory and oral drills.

Evaluation will be based on a series of short quizzes, dictations, class participation and a final oral examination.

Corequisite: GERA10

Session: Winter Day

GERA10Y Introductory German / U. Sherman

The fundamentals of grammar and syntax.

In this course the students will acquire a basic knowledge of the German language. One comprehensive textbook will be used and a variety of reading materials will be introduced to initiate conversation.

The students are exposed to the four language skills from the beginning of the course (listening, speaking, reading, writing). They are encouraged to practise these skills in a variety of combinations. There are four hours of intensive grammar and structural work per week. There will be short quizzes, unit tests, and a final examination. Class participation and homework will play a major role in determining the final grade.

Corequisite: GERA09

Session: Winter Day

GERB19Y Language Practice II / H. Ohlendorf, H. Wittmann

A practicum offered in conjunction with GERB20Y. The focus is on oral and written composition on the intermediate level.

This practicum is designed to increase the students' vocabulary and fluency in German. There are three hours of supervised discussion, essay writing and reading each week.

Short essays, vocabulary quizzes and a short oral examination at the end of the year form the basis of evaluation. Class participation will play a major role in determining the final grade.

Prerequisites: Grade 13 OR GERA09 and A10

Corequisite: GERB20Y

Session: Winter Day

GERB20Y Intermediate German / U. Sherman

Intensive language work focusing on readings and oral and written composition.

The course is designed to expand the active and passive vocabulary of the students through a variety of reading materials. A thorough grammar review accompanies the reading selections. As the course progresses, the emphasis will shift to literary discussions and conversation. Short stories will supplement the textbook. Mimeographed material on current events will be introduced from time to time to spark class discussion.

Three hours of lectures per week. The students are expected to prepare homework assignments and participate in class discussions.

There will be quizzes, tests, and a final examination. Class participation will play a major role in determining the final grade.

Exclusion: (GERA11)

Prerequisite: Grade 13 German OR GERA09 and A10

Corequisite: GERB19Y

Session: Winter Day

GERB33S Practicum in the History and Structure of the German Language / U. Sherman

A seminar on the history of the German language from the Middle Ages to the present. Working with representative texts from the various historical periods, students will come to a better understanding of the modalities and structures of contemporary German. Evaluation is based on projects and/or tests and a final examination. Class participation will also play a major role in determining the final grade.

Exclusion: (GERB06)

Prerequisites: Grade 13 German OR GERA09 and GERA10

Session: Winter Day

GERB50S Methods of Interpreting Literature / H. Wittmann

An introduction to the techniques of literary analysis.

Poems and short pieces of prose will be analysed in close reading. Prosody and metrics will be dealt with in some detail; special attention will also be given to the relationship between form and content. In the final section patterns of rhetoric, syntax, and style will be investigated in the analysis of prose texts. The course intends to familiarize the student with the fundamental criteria and techniques required for the analysis of literary works.

All sessions are informal tutorials: they have free-flowing discussions with a high degree of student involvement. Each student is asked to prepare a number of short presentations which will be evaluated in class. Class participation plays a major part in the final evaluation.

Exclusion: (GERB10)

Prerequisite: GERB19 and B20

Session: Winter Day

GERB60F Nineteenth Century Prose / H. Wittmann

A study of the novella form centering on representative works of major writers in the nineteenth century.

The method of the course is both historical and systematic. Works from three major periods of the nineteenth century will be discussed: Romanticism (Kleist, Brentano, Eichendorff), Biedermeier, (Grillparzer, Stifter, Gotthelf) and Poetic Realism (Droste-Hülshoff, Meyer, Storm). Georg Büchner's role as the most innovative writer of his time and as the precursor of twentieth century man will be assessed. The focal points are the clash between ideal and reality, narrative technique, the history and the theory of the novella, the relationship between the evolution of ideas and the character of a literary work of art, the development of the short prose form in the nineteenth century.

There will be three one-hour seminar sessions per week. Evaluation is based on short tests and a paper. Class participation will also play a major role in determining the final grade.

Exclusion: (GERB02)

Prerequisite: GERB19 and B20

Session: Winter Day

GERB66S Twentieth Century Prose / H. Wittmann

Main literary trends in Germany from the turn of the century to the present.

The course is divided into three parts with the following themes: i) Crisis of consciousness and language (Hofmannsthal, Rilke, Musil, Kafka); ii) The conflict of art and life (Mann, Hesse); iii) Art and morality (Grass, Böll). It intends to show the genesis of modern prose as it emerges from the conflict between the consciousness of the writer and an increasingly complex reality shaped by the revolution of science and technology. Its main goals are to explore the resulting attitude of the writers toward language, the structure of society and the concept of individuality. There will be three hours of a mixture of lectures and discussion sessions per week. Evaluation is based on a number of short quizzes and a paper. Class participation will play a major role in the final grade.

Prerequisite: GERB19 and B20

Session: Winter Day

GERB76F Features of Post-war German Literature / H. Wittmann

This course will illustrate the resurrection of German literature after the disaster of National Socialism.

Analysis and discussion of literary texts will focus on four major themes: i) The relationship of collective guilt and individual responsibility; ii) language and totalitarianism; iii) the role of modern man in a mechanized, affluent society; iv) the didactic uses of history in modern theatre. The course intends to enable the student to relate structure, language and content of major examples of post-war literature to the peculiar socio-political situation of Germany after Auschwitz, and to show the emergence of the writer as the conscience of a new Germany.

Evaluation is based on short quizzes and one paper. Class participation will also play a major role in determining the final grade.

Prerequisite: GERB19 and B20

Session: Winter Day

GERC10Y Advanced Composition and Conversation / H. Ohlendorf

Emphasis will be placed on refining the skills of oral and written composition, textual analysis and translation.

This course is a continuation of GERB30Y. There will be various kinds of language exercises, selected according to the objectives of the course and the needs and desires of the students. Themes for discussion and composition will be chosen from a wide variety of areas. At the end of this course, the student should be able to write and converse in idiomatic German with a high degree of fluency. He should be able to translate with ease texts of some complexity into both English and German.

Three hours of informal, yet structured discussion per week. The language spoken in class is German.

Evaluation is based on frequent written assignments, class participation, and term tests.

Exclusion: GERC04

Prerequisite: GERB19 and B20 OR GERB30

Session: Winter Day

GERC20Y Literature of "Sturm und Drang" and Romanticism / H. Ohlendorf

The early dramatic and poetic writings of Goethe and Schiller.

Such texts as *Götz Von Berlichingen* and *Die Räuber*, will be studied along with works by authors such as Lenz, Klinger, *et al.* The themes and forms first emerging in the Sturm und Drang will be shown to find renewed and somewhat altered expressions in the critical deliberations of the Schlegel brothers and their friends, as well as in the poetry and prose of such writers as Novalis, Tieck, Brentano, and Eichendorff.

A seminar course. Evaluation is based on two term tests and one major paper. Class participation will also play an important role in determining the final grade.

Prerequisites: GERB19 and B20

Session: Winter Day

GERC30, 33, 43F

C36, 40, 46S

C48Y Supervised Reading / Staff

The course is designed to give senior students an opportunity to follow up on ideas generated during the more formal courses of instruction. Topics and/or projects are formulated in close consultation between student and supervisor chosen by student. Informal tutorials.

Two medium length papers or one major paper.

Prerequisites: GERB30

Session: Winter Day

GERMAN COURSES NOT OFFERED in 1980-81

GERB24F/S The Last Hundred Years-German Civilization from 1870 to the Present

GERB40Y The Development of German Drama

GERB43Y Masterpieces of the German Novel

GERB63F/S Nineteenth Century Drama
Prerequisite: GERB19 and B20

GERB70F/S Twentieth Century Drama
Prerequisite: GERB19 and B20

GERB73F/S Modern German Poetry
Prerequisite: GERB19 and B20

GERC13Y Classicism
Prerequisite: GERB19 and B20 and one full-course equivalent from among the B-level literature courses.

GREEK

Courses are offered in introductory Classical Greek, (GRKA01 and GRKA10), Greek literature of the classical period (GRKB01, GRKB30, etc.), and modern Greek (B10Y, B20Y).

GRKA01Y	Introductory Greek
GRKA10F	Introduction to Greek Authors
GRKB01S	Plato: Apology
GRKB10Y	Intermediate Modern Greek
GRKB20Y	Modern Greek Literature
GRKB30F-B34F	
GRKB35S-B39S	
GRKB40Y	Supervised Reading
For further information see under Classical Studies.	

Greek and Roman History

The following courses are offered this year:

GRHB01Y	Greek History from the Bronze Age to the Death of Alexander
GRHB02Y	Greek and Roman History from the Death of Alexander to the Gracchi
GRHB25Y	Studies in Greek History I
GRHB27Y	Studies in Roman History: Pompeii
For further information see under Classical Studies.	

HISTORY

Discipline Representative: M. Eksteins

The study of history is intended to enhance our understanding of man in society by examining the experiences of particular peoples and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanistic; its methods draw from all forms of scholarly endeavour. History courses, therefore, can play a part in a number of interdisciplinary programmes and can serve as an adjunct to courses in Politics, Philosophy, Literature, Economics and Sociology.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HISA01Y provides both a general introduction to the study of history at the university level, and the preparation for further studies in European history. A series of survey courses (HISB02-09) provides a comprehensive foundation of knowledge in their particular areas, and also serves as preparation for more detailed and advanced studies. In upper-level courses students investigate more specific areas, periods, or problems. C-series courses are conducted as seminars. In them students make close and thorough studies of particular questions and present their findings in discussions and major essays. There are sequences of courses at all levels in the following areas: Medieval European, Modern European, British, American, Canadian, Russian, and Ancient Greek and Roman.

Specialist Programme in History

Supervisor: A.N. Sheps

Students must complete twelve full-course equivalents as follows:

- A. Ten must be in History (HIS or GRH), including HISA01Y and five upper-level courses (HISB11Y-HISC99Y, GRH24F/S-GRHB28Y, HIS300 and 400 level courses on the St. George campus). Of these at least two must deal with the period prior to 1815 (see list). Students are also required to take courses in at least three different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in each of two areas.
- B. Two must be full-course equivalents in disciplines other than History and be agreed upon in consultation with the Supervisor.

Pre-1815 courses

LIST A

Full-year courses exclusively within a period before 1815

GRHB01Y	Greek History from the Bronze Age to the Death of Alexander
GRHB02Y	Greek and Roman History from the Death of Alexander to the Gracchi
GRHB03Y	Roman History from the Gracchi to Nero
GRHB25Y*	Studies in Greek History I
GRHB26Y*	Studies in Greek History II
GRHB27Y	Studies in Roman History: Pompeii
GRHB28Y	Studies in Roman History
GRHB29Y*	Studies in Roman History: Roman Britain
HISB06Y	Europe in the Middle Ages
HISB13Y*	Europe in the Reformation Era, 1500-1650
HISB18Y*	Europe under the Enlightened Despots
HISB23Y*	Tudor and Stuart England
HISB61Y*	The Beginnings of France: Constantine to Charlemagne
HISC11Y*	Western Europe in the Seventeenth Century
HISC12Y*	The Renaissance in Europe
HISC14Y*	The European Mentality in the Early Modern Period
HISC32Y*	The American Colonies and the British Empire
HISC62Y*	The Crusades

LIST B

Half-year courses exclusively within a period before 1815

GRHB24F/S	Ancient Historiography
HISC34F/S*	Revolutionary America 1760-1790
HISC41F/S*	Old Huronia

LIST C

Full-year courses covering a period before 1815 in the first half of the year (equivalent to half-year course credit)

HISA01Y	The European World
HISB07Y	Russia from the Thirteenth Century to the Present
HISB46Y*	Atlantic Canada

- * Students should check these courses for prerequisites.

Major Programme in History

Supervisor: A.N. Sheps

Students must complete seven full-course equivalents in History (HIS or GRH), including HISA01Y and three upper-level courses (HISB11Y-HISC99Y, GRHB24F/S-GRHB28Y, HIS300 and 400 level courses on the St. George campus). Of these at least one must deal with the period prior to 1815 (see list). Students are also required to take courses in at least two different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in one of these two areas.

Pre-1815 courses

LIST A

Full-year courses exclusively within a period before 1815

GRHB01Y	History of Greece from 2000 B.C.
GRHB02Y	Greek and Roman History from the Death of Alexander
GRHB03Y	Roman History from the Gracchi to Nero
GRHB25Y*	Studies in Greek History I
GRHB26Y*	Studies in Greek History II
GRHB27Y	Studies in Roman History: Pompeii
GRHB28Y	Studies in Roman History
GRHB29Y*	Studies in Roman History: Roman Britain
HISB06Y	Europe in the Middle Ages
HISB13Y*	Europe in the Reformation Era, 1500-1650
HISB18Y*	Europe under the Enlightened Despots
HISB23Y*	Tudor and Stuart England
HISB61Y*	The Beginnings of France: Constantine to Charlemagne
HISC11Y*	Western Europe in the Seventeenth Century
HISC12Y*	The Renaissance in Europe
HISC14Y*	The European Mentality in the Early Modern Period
HISC32Y*	The American Colonies and the British Empire
HISC62Y*	The Crusades

LIST B

Half-year courses exclusively within a period before 1815

GRHB24F/S	Ancient historiography
HISC34F/S*	Revolutionary America 1760-1790
HISC41F/S*	Old Huronia

LIST C

Full-year courses covering a period before 1815 in the first half of the year (equivalent to half-year course credit)

HISA01Y	The European World
HISB07Y	Russia from the Thirteenth Century to the Present
HISB46Y*	Atlantic Canada

- * Students should check these courses for prerequisites.

HISA01Y The European World: An Introduction to History / J. Pearl, M. Eksteins

A survey of European history from the Middle Ages to the present. This course examines the most prominent changes in social and economic organization, in thought and in politics, as Europe developed from a feudal and agrarian to a modern and industrial order. The teaching method is based on lectures and tutorials. A set of readings from primary and secondary sources will be assigned, but further reading by the student is essential. Evaluation is based on essays, a term test, tutorial participation, and a final examination.

Session: Winter Day

HISB02Y Britain from the Eighteenth Century to the Present / J.P.B. Kenyon

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

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

Exclusion: (HISB01); (HISB02)

Session: Winter Day, Winter Evening

HISB03Y History of the United States / A.N. Sheps

Major themes from the Revolution to the present.

The course will focus on such questions as independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, progressivism and the United States as a world power. There will be two lectures and one tutorial per week. Participation in tutorial discussions, an essay and an examination each term will form the basis of the final grade.

Session: Winter Day, Summer Evening

HISB04Y Introduction to Canadian History / J.S. Moir, I.R. Robertson

An introduction to the history of Canada from the first European contacts to the present.

Topics studied include: exploration and settlement; the institutions and life of New France; the British Conquest and its results; the impact of the American Revolution on British North America; development of the British colonies in North America; the confederation movement; the political, economic, social and cultural history of the new nation-state established in 1867. There will be two hours of lectures and one tutorial hour per week. Regular attendance at and participation in tutorials are required. Evaluation is based on written work, tutorial participation, and two examinations, one in December and one at the end of the academic year.

Exclusion: (HISB09)

Session: Winter Day

HISB06Y Europe in the Middle Ages / M. Gervers

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

The object of this course is to familiarize students with the foundations of Western society as they evolved in conjunction with the early settlement, colonization and subsequent expansion of Europe. Particular attention is paid: i) to the peculiar circumstances which determined national boundaries and which led to the divisions and conflicts of the modern world, and ii) to the origin and development of our own religious, legal, educational and political institutions. Readings are from P. Brown, *The World of Late Antiquity*; G. Duby, *Rural Economy and Country Life in the Medieval West*; D. Hay, *The Medieval Centuries*; R. W. Southern, *Western Society and the Church in the Middle Ages*; and others. There will be two hours of lectures and one tutorial per week. Evaluation is based on tests (50%), a term paper (30%) and class participation (20%).

Exclusion: (HISB08)

Session: Winter Day

HISB07Y Russia from the Thirteenth Century to the Present / E.W. Dowler

The Russian people, state and culture, with emphasis on the major social, institutional and ideological changes from the rise of Moscow to the present.

Wherever possible readings have been selected from primary source materials so that students will become acquainted not only with the facts but the flavour of Russian history. The course will be taught by lectures and tutorials. Evaluation will be based on one exam and one essay *each* term.

Session: Summer Evening

HISB13Y Europe in the Reformation Era 1500-1650 / J. L. Pearl

An examination of major themes in sixteenth century Europe, especially social and cultural developments.

There will be strong emphasis on the religious issues and institutions which were so important in that period, and on the interaction of these with the society and culture. This is a lecture/tutorial course, with two hours of lecture and one of tutorial each week. Students will be evaluated on their participation in the tutorial sessions. They will also be required to submit two research papers (of approximately fifteen pages each) and take a two-hour final examination.

Prerequisite: HISA01

Session: Winter Day

HISB16Y Modern France 1750 to the Present / L. J. Abrey

An exploration of the transition from agricultural monarchy to industrial republic.

Topics will include the revolutionary tradition, the persistence of social conflict, the French sense of world mission, cultural history, the present stalemate between Left and Right, parallels and contrasts to the Canadian experiences of nationalism, regionalism, and modernization.

The course consists of lectures and tutorials; evaluation is based on two term papers, tutorial participation and a final examination.

Prerequisite: HISA01 or permission of instructor.

Session: Winter Day

HISB17Y Germany in the Nineteenth and Twentieth Centuries / M. Eksteins

A thematic treatment of German history from the end of the Holy Roman Empire to the present.

The course will concentrate on social, economic, and cultural interpretations of Germany's political experience.

Teaching consists of two consecutive hours of lectures and one hour of tutorial per week. A set of readings from primary and secondary sources will be assigned, but extensive further reading is essential. Evaluation is based on tutorial participation, two term papers, and a final examination.

Prerequisite: HISA01

Session: Winter Day

HISB21F Frontier Communities in the British Empire-Commonwealth: The South African Model / J.P.B. Kenyon

A comparative study of the influences of frontiers on the development of new nations, with main emphasis on the history of South Africa.

Such major issues as settlement, class structure, race relations, democracy and nationalism, and relations with the metropolitan power are considered.

Two lectures a week; either one paper of about 3000 words or two papers of 1500 each (67%); final examination (33%).

Prerequisites: HISB02 (HISB01)

Session: Winter Day

HISB22S British Imperialism in India / J.P.B. Kenyon

The impact of imperialism on India.

Topics will include the motive behind British imperialism; the problems of administration; the transfer of power; neo-colonialism. Two lectures a week; either one paper of about 3000 words or two papers of 1500 each (67%); final examination (33%).

Prerequisites: HISB02 (HISB01)

Session: Winter day

HISB23Y Tudor and Stuart England / L.J. Abrey

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

The course gives an overview of political, economic, social and cultural patterns. Special attention will be given to four themes: the powers and personalities of the rulers; Parliament and the rule of law; the great religious crisis and its spillover into civil war; the cultural heritage. There will be two lecture hours and one tutorial per week, an essay each term, and a final examination.

Prerequisite: Any B-level course

Session: Winter Day

HISB31Y The Southern United States and Slavery / A.N. Sheps

The social, political and economic structures of the old South from the colonial period to the Confederacy.

Topics will include the development of southern culture, the relationship between ideas and institutions, slavery as a social and economic system, race relations, and the growth of Southern separatism. There will be one two-hour lecture and one tutorial per week in both of which there will be opportunity for class discussion led by the instructor. Evaluation is based on regular reading and discussion, two brief written reports in the Fall term, an essay in the Spring term and a final examination.

Prerequisite: HISB03

Session: Winter Day, Summer Evening

HISB44F Canadian Religious Traditions / J.S. Moir

A course investigating aspects of the role of religion in the development of Canadian society.

Such themes as religious establishment, denominational education, church-state relations, theological trends, revivalism, religious ethnicism, mission action, nationalism and social groupings in relation to religion, the modernist-fundamentalist controversy, premillennialism, the Social Gospel, and religio-political movements will be examined. Two lectures per week. Evaluation is based on book reviews, class participation, an essay and a final examination.

Prerequisites: HISB04, (HISB09)

Session: Winter Evening

HISB45Y The Prairie Provinces 1850-1950 / W.A. McKay

A study of the background of Western Canadian alienation.

Topics will include the attempts to break the H.B.C. trade monopoly, native rights, the educational problem, agrarian protest movements, the natural resources control question, the fiscal problems generated by the depression, post-war search for "a place in Confederation". Seminar, with evaluation based on regular presentations by members of the class, together with the research and preparation of two essays. The bibliography consists of: Artibise, *Western Canada Since 1870*; Thomas, *The Prairie West to 1905*; Morton, *Manitoba*; Morton, *The Canadian West to 1870-71*; Stanley, *The Birth of Western Canada*; Morton, *The Progressive Party in Canada*; Wood, *A History of Farmers' Movements in Canada*; and other titles, a list of which will be distributed in class.

Prerequisite: HISB04 (HISB09)

Session: Winter Day

HISB46Y Atlantic Canada / I.R. Robertson

An examination of the Maritime provinces and Newfoundland from the first European contacts to the present, with emphasis upon the pre-Confederation period in each province.

Subjects to be investigated include the following: international fisheries; French regime; British settlement; responses to the American Revolution; the Loyalist impact, colonial economies and social structures; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; adjustment of the Maritimes to Confederation, and the prolonged resistance by Newfoundland; farmer, labour and fishermen's movements; the persistence of regional underdevelopment; literary and intellectual developments. In broad terms, the course objectives are (i) to promote the study of a region whose history has been largely ignored by Canadian historians, and hence inaccessible to students; and (ii) to provide an opportunity for in-depth study of such historical phenomena as regional underdevelopment. There will be one two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks. Written work will include a final examination and two research papers. Evaluation is based on research papers 40%, examination 35%, and tutorials 25%. Regular attendance and participation in tutorials are required. *

Prerequisites: HISB04, (HISB09)

Session: Winter Day

HISB47Y The Canadian Left, 1867 to the Present / I.R. Robertson

An investigation of farmer, labour, and socialist movements since Confederation, their roots in the changing social structure, and their political manifestations.

The emphasis will be on the twentieth century, and attempts will be made to assess the significance of the international affiliations and/or origins of the various movements, and to account for the unique character of the Canadian Left. In broad terms, the course objectives are (i) to encourage the study of social classes who have been excluded from the exercise of power in Canada, and to examine the ways in which they have organized to protect their interests; and (ii) to explore the relationship between social change and popular, reform, radical, and socialist movements.

There will be one two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks throughout the year. Written work will include a final examination and two research papers. Evaluation is based on research papers (40%), examination (35%), and tutorials (25%).

Exclusion: (HISB47)

Prerequisite: HISB04 (HISB09)

Session: Winter Day

HISB61Y The Beginnings of France: Constantine to Charlemagne / J.H. Corbett

A brief survey of the later Roman Empire in the west, followed by a study of the period from Constantine to Charlemagne.

Major topics include: background (Roman Empire and Christian Church); the Age of Constantine; life and letters in late Roman Gaul (300-500 A.D.); the kingdom of the Franks (500-600 A.D.); the world of Charlemagne. Special emphasis will be placed on social, economic and religious aspects of the period. Students will be expected to acquire a general familiarity with the literature on the subject, to choose one topic area each term and present a paper on it, and to develop a personal view of the subject. Two hours of lecture and one of tutorial per week. Evaluation is based on two essays and two oral presentations (64%), and a final examination (36%).

Prerequisites: Any B-level course in History or Greek and Roman History

Session: Winter Day

HISC01F

HISC02S

HISC03Y Independent Studies / The History Faculty

A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field which is of common interest to both student and supervisor and which is not available for study otherwise. Candidates must find a willing supervisor and must submit a written application before the dates given below. Students meet regularly with the supervisor to discuss progress in their investigations and complete a 7,500-10,000 word paper for a term course and a 15,000-20,000 word paper for a year course.

Prerequisites: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISC01 and HISC03 and by 1 December for HISC02. See History Supervisor for detailed application procedures.

Session: Winter Day

HISC12Y The Renaissance in Europe / L.J. Ab'ray

An examination of selected problems in European history from the Black Death through the Reformation.

Specific problems chosen will be determined largely by the students' own interests within such areas as: the impact of the Black Death; foundations of capitalism; love, morals, class and family; religion; warfare; visions of politics; urban life; Renaissance views of nature and human nature; the arts; printing; the European discovery of the world. A seminar course, in which all students will do core reading in secondary works, and primary works in translation. In addition, each student will have a personal reading list of studies on a variety of topics. Evaluation is based on a number of short (5-10 pages) papers, together worth 80%, and an end-of-year test worth 20%.

Prerequisite: HISA01 or permission of the instructor

Session: Winter Day

HISC14Y The European Mentality in the Early Modern Period (1500-1700) / J.L. Pearl

An examination of major cultural-intellectual developments in the sixteenth and seventeenth centuries.

This seminar will focus on the witchcraft crisis and the scientific revolution, which coexisted in this period in a not always antagonistic fashion. Students will do a major research project, based as much as possible on primary sources. Each student will give one oral seminar and write one or two research papers. Evaluation is based on the seminar, paper(s), class discussion and two one-hour tests. Limited enrolment: 20.

Exclusions: (HISC12); (HISC13)

Prerequisite: One B-level History course

Session: Winter Day

HISC19S Weimar Culture / M. Eksteins

An examination of the social and political foundations of "modernism", using the cultural ferment of Germany between 1918 and 1933 as model.

Individual artists and thinkers will be considered, but the emphasis will nevertheless be on culture as a social manifestation. Seminar, with evaluation based on class discussion, a book review, and a research paper. Limited enrolment: 15.

Prerequisites: HISA01 and one B-level course in History

Session: Winter Day

HISC21Y Urbanization and Social Change in 19th Century England / J.P.B. Kenyon

A study of the new social environment created by the growth of cities in an industrial community.

Seminar. In the first term students will discuss major issues based on a reading of Briggs' *Victorian Cities*; they will also write a book report. In the second term students will present a report on their research. Evaluation is based on a major paper (65%), book review (10%) and a final examination (25%). Limited enrolment: 20.

Prerequisites: HISC02 (HISC01)

Session: Winter Day

HISC43S Selected Topics in Canadian Religious History / J.S. Moir

A research seminar examining various themes outlined in HISC44F.

Weekly seminar, with evaluation based on class discussion, essay, and examination. Limited enrolment: 15.

Prerequisite: HISC44

Session: Winter Evening

HISC47Y The Course of Conservatism in Canada / W.A. McKay

An examination of the classic assumptions of conservatism and of the Canadian adoption to the model.

The course will study the pattern of conservative thought in Canada, beginning with the early governors and councillors and continuing through to the emergence of the modern state. This will be a weekly seminar course with emphasis on research and discussion. Evaluation will be based on two term papers and on seminar presentations. Preparatory reading: White, *The Conservative Tradition*.

Prerequisites: HISC04 (HISC09)

Session: Winter Evening

HISC62Y The Crusades / M. Gervers

An examination of the Crusades of the eleventh through fourteenth centuries.

This seminar will consider the Crusades as a continuation of Christianity's centuries-old struggle with paganism, as a form of colonial expansion, and as a papal weapon against heresy and political dissension within Christendom. The movement will be compared and contrasted with the foundation and activities of the military orders, particularly the Hospitallers, Templars, Teutonic Knights, and associated orders in Spain and north-eastern Europe. During the first semester students will read severally from the most significant scholars in the field and, in class, compare and contrast the wide variety of viewpoints and interpretations which have arisen since the completion of Gibbon's *Decline and Fall of the Roman Empire* in 1781. The second semester will be devoted to a similar reading (in translation) and critical analysis of original Western European, Byzantine, Arabic and Jewish chronicles of the crusading movement. Term papers will concentrate on the careful study of a secondary work and a source not covered in class. Bibliography available from Prof. Michael Gervers. Evaluation is based on weekly preparation and participation (50%) and term papers (50%).

Prerequisites: HIB06 (HISC08)

Session: Winter Day

HISTORY COURSES NOT OFFERED in 1980-81**HISB15Y European Social History 1789-1918**

Prerequisite: HISA01

HISB18Y Europe Under the Enlightened Despots

Exclusion: HISC28

Prerequisite: HISA01

HISB32Y The American Colonies and the British Empire**HISB33Y American Society and Thought Before the Civil War**

Exclusion: (HISC33)

Prerequisite: HISC03

HISB35Y The United States since 1870; The Response to Industrialism

Prerequisite: HISC03

HISB43Y Ontario History: the 19th Century

Prerequisite: HISC04

HISC11Y Western Europe in the Seventeenth Century

Prerequisites: HISA01; one B-level course in History

HISC17Y European Society and Culture in the Twentieth Century

Prerequisites: HISA01 and one B-level course in History

HISC20F/S Anglo-Saxon England

Prerequisite: One B-level course in History or English

HISC22Y Religion and English Society, 1750-1900

Prerequisite: HISC01

HISC34F/S Revolutionary America, 1760-1790

Prerequisite: HISC01 or HISC03 or HISC04

HISC35S U.S. Labour and Society 1890-1920

Prerequisite: HISC03

HISC41F Old Huronia

Prerequisites: HISC04 or HISC05 or HISC09

Corequisite: Field trip to be arranged

HISC42S Church-State Relations in Canada

Exclusion: (HISC42)

Prerequisites: HISC04 or HISC05 or HISC09

HISC45Y History of Canadian Social, Political and Historical Thought

Exclusion: HISC45

Prerequisites: HISC04

HISC47Y The Course of Conservatism in Canada

Prerequisite: HISC04 (HISC09)

HISC78Y The Russian Intelligentsia

Exclusion: HISC18

Prerequisites: HISC07 or RUSA01

THE HISTORY OF IDEAS

What has man made of man? The History of Ideas studies the impact of major ideas on the development of western civilization.

The Programme described below will enable you to develop a solid grounding in the intellectual and social history of mankind, and will help you to sharpen your skills in practical critical thinking. You will focus your studies in areas of your own interest. In the Specialist Programme a seminar in your last year of study will help you to concentrate your studies around a central problem of your choice, drawing together issues and ideas you have studied in your previous years.

Specialist Programme in History of Ideas

Supervisor: W.C. Graham

Students must complete at least twelve and one-half full-course equivalents as follows:

- (1) HUMA01Y Prologue
 - (2) ANTA01Y Introduction to Anthropology
or
SOCA01Y Introduction to Sociology
 - (3) ASTA03Y Survey of Astronomy (for non-scientists)
or
MATA40F & 45S Linear Algebra
or
NSCA01Y Introduction to Physical Sciences (for non-scientists)
or
NSCA02Y Introduction to Biological Sciences (for non-scientists)
or
PHLA01Y Introduction to Philosophy
- With approval of the Supervisor, other courses from the Division of Physical or Life Sciences may be substituted.
- (4) HISA01Y European World
 - (5) One full-course equivalent from:
PHLB03F/S Philosophy and Art
PHLB14F/S* Philosophy of the Social Sciences
PHLB16F/S Philosophy of History
PHLB20F/S Theories of Knowledge
PHLB70F/S* Philosophy of Science
PHLB81F/S* Theories of Mind
 - (6) One full-course equivalent in the development of philosophical ideas: PHLB40S to PHLB49S.
 - (7) One full-course equivalent in political thought from:
PHLB10F/S Society, the State and Citizen
PHLB12F/S* Marx and Marxism
PHLB17F/S Anarchism
POLB70Y Political Thought from Plato to Locke
POLB71Y Political Thought of Eighteenth and Nineteenth Centuries
POLC70Y Twentieth Century Political Thought
 - (8) Five full-course equivalents at least one of which must be at the C-level from among the following areas of concentration: (a) civilization or history, (b) art or religion, (c) science or society. At least one half-course must be taken from each of the three areas. A specific list of courses for these areas is available from the Supervisor and in the brochure, "The History of Ideas". Alternatively, students may elect to complete the Independent Study Year, HUMC9S-99Y.
 - (9) HUMC10H

*Students should check these courses for prerequisites.

College Programme in History of Ideas

Supervisor: W.C. Graham

Students must complete at least ten full-course equivalents as follows:

- (1) HUMA01Y Prologue
- (2) ANTA01Y Introduction to Anthropology
or
SOCA01Y Introduction to Sociology
- (3) ASTA03Y Survey of Astronomy (for non-scientists)
or
MATA40F & 45S Linear Algebra
or
NSCA01Y Introduction to Physical Sciences (for non-scientists)
or

NSCA02Y Introduction to Biological Sciences (for non-scientists)

or
PHLA01Y Introduction to Philosophy

With approval of the Supervisor, other courses from the Division of Physical or Life Sciences may be substituted.

- (4) HISA01Y European World
- (5) One-half full-course equivalent from:
PHLB03F/S Philosophy and Art
PHLB14F/S* Philosophy of the Social Sciences
PHLB16F/S Philosophy of History
PHLB20F/S Theories of Knowledge
PHLB79F/S* Philosophy of Science
PHLB81F/S* Theories of Mind
- (6) One full-course equivalent in the development of philosophical ideas: PHLB40S to PHLB49S.
- (7) One full-course equivalent in political thought from:
PHLB10F/S Society, the State and Citizen
PHLB12F/S* Marx and Marxism
PHLB17F/S Anarchism
POLB70Y Political Thought from Plato to Locke
POLB71Y Political Thought of Eighteenth and Nineteenth Centuries
POLC70Y Twentieth Century Political Thought
- (8) Three full-course equivalents from among the following areas of concentration: (a) civilization or history, (b) art or religion, (c) science or society. At least one half course must be taken from each of the three areas. A specific list of courses for these areas is available from the Supervisor and in the brochure, "The History of Ideas".

*Students should check these courses for prerequisites.

HUMANITIES

Discipline Representative: C. Ponamareff

The Humanities are concerned with man's never-ending reflection on the human condition, with the development and communication of his thought, and with the creation and enjoyment of the beautiful. They are thus an integral part of liberal education.

The majority of courses in the Humanities are offered by the various disciplines comprising the Humanities Division and are listed alphabetically under the discipline heading in this calendar, along with the Specialist and/or Major Programme centered on a particular discipline. The Humanities Division, however, also offers a Specialist Programme in the Humanities and a College Programme in the Humanities which involve students in a wide range of Humanities disciplines: these programmes are outlined below. Following these programmes is a list of courses which will appeal to students who wish to explore the Humanities outside the traditional disciplinary framework. For the most part, these courses offer an alternative to examination within current precise national, historical, and disciplinary boundaries, opting instead to restructure subjects of interest around a theme which itself creates its own reasoned limits. Students may find this a particularly attractive point of view from which to study an enduring human myth, a more unified approach to literature, an aspect or aspects of a loose historical period, or a movement of broad cultural relevance.

Humanities courses fall into the following broad categories, for all of which HUMA01Y serves as a useful, though not always a required, prologue:

Civilization and Culture

- | | |
|---------|--|
| HUMB13Y | The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities |
| HUMB15Y | The Civilization of Spain |
| HUMB18S | Modern Italy |
| HUMB22F | The Age of Pericles |
| HUMB23S | The Age of Augustus |
| HUMB24S | The Age of Nero |

HUMB25F	The Age of Homer
HUMB33Y	World Visions from the late Middle Ages to the Renaissance
HUMB50S	Machiavelli and Aspects of the Italian Renaissance
HUMC11Y	The Darwinian Revolution

see also:

CLAA01Y	Classical Civilization
FREB20Y	French Civilization: The Vision of Man

Myth, Religion and Reality

HUMA10Y	Introduction to the Study of Religion
HUMA11Y	Greek and Roman Mythology
HUMB19S	Beyond Consciousness
HUMB20Y	Primitive Christian Literature and Myth
HUMB28Y	Major Religious Traditions, East and West
HUMB29S	Religion and Western Culture
HUMB34F/S	Hercules: Man of Action
HUMB35F	"The Ulysses Factor"
HUMB36Y	Orpheus: The Quest for Beauty
HUMB37F/S	Atlantis
HUMB38F/S	Utopia: From More to Huxley
HUMB39F/S	Fantasy in Narnia and Middle Earth
HUMC20Y	Jesus
HUMC21F	Paul
HUMC22S	John
HUMC25Y	The University

See also:

ANTB23Y	Comparative Mythology
---------	-----------------------

Interliterary Studies

HUMB17Y	The European Experience: Man and Society in the Twentieth-Century French and Italian Novel
HUMB27S	Science Fiction
HUMB40Y	Russian and English Nineteenth-Century Fiction
HUMB42S	Dostoevsky and the West
HUMB43F/S	The Emergence of Modern Prose
HUMB44F	Disaster and Literary Imagination
HUMB45S	The Spanish Civil War: Fact to Fiction
HUMB54F	The Crisis of Contemporary Society in Modern Italian Drama
HUMB55Y	The Twentieth Century Latin American Novel and the European Tradition
HUMC01S	Lytic Poetry of the Middle Ages
HUMC14Y	Romance Philology
HUMC19F	Contemporary Fiction and its Backgrounds
JHEC13Y	A Seminar in Literary Theory and Practice

Literature in Translation

Note: full course descriptions will be found under the appropriate language listing

CLAB01Y	Greek and Roman Epic
RUSB11Y	The Nineteenth Century Russian Novel
RUSB23Y	Soviet Russian Underground Literature

Women's Studies

HUMB61S	Women in Ancient Greece
HUMB64Y	Literary Theory and Feminism

Film Studies

HUMB70Y	Introduction to Cinema
HUMB71F	Italian Cinema

Specialist Programme in the Humanities

Supervisor: P.W. Gooch

The Humanities Specialist Programme is designed for the student who, while pursuing a four-year degree, wishes to concentrate his or her studies in the Humanities. After an introduction to a wide range

of disciplines within the Division, the student has the option (see item 7) of doing more specialized work in a specific discipline or of taking advantage of our wide interdisciplinary offerings (listed under HUM) to develop a less traditional area of specialization.

Twelve and one-half (12 1/2) full-course equivalents are required, as follows:

- (1) HUMA01Y
 - (2) PHLA01Y
 - (3) HISA01Y
 - (4) Two consecutive courses (two full-course equivalents) in a language foreign to the student
 - (5) One full-course equivalent in the arts: DRA, FAR, MUS
 - (6) One full-course equivalent in literature or linguistics: CLA, DRA, ENG, FRE, GER, HUM, ITA, LIN, RUS, SPA.
- Note: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. Students intending to take a DRA or HUM course to fulfil one of the area requirements should consult with the Supervisor about the appropriateness of a particular course. A course in MAT or AST may replace one of requirements 2, 3, 5 or 6.
- (7) Five further full-course equivalents in Humanities subjects, at least one of which must be at the C-level. (For the purpose of the Programme, Mathematics is also considered to be a Humanities subject.) These five courses should focus on one area or theme and should involve some depth of coverage. Students may elect to fulfil this requirement through the Individual Study Year (HUMC95-99Y). Choice of courses must be approved by the Supervisor.
 - (8) HUMC10H

College Programme in the Humanities

Supervisor: P.W. Gooch

The Humanities College Programme is designed for the student who wishes what has been known as a "liberal education". The Programme will seek to develop the critical intellectual skills of the student and to acquaint him with basic forms of approach in several areas of human endeavour. It will accomplish this by developing a coherent group of courses, within the framework established below, for each student registered in the Programme.

Nine (9) full-course equivalents are required, as follows:

- (1) HUMA01Y
 - (2) PHLA01Y
 - (3) HISA01Y
 - (4) One full-course equivalent in the arts: DRA, FAR, MUS
 - (5) One full-course equivalent in language, literature, or linguistics: CLA, DRA, ENG, FRE, GER, HUM, ITA, LIN, RUS, SPA.
- Note: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. Students intending to take a DRA or HUM course to fulfil one of the area requirements should consult with the Supervisor about the appropriateness of a particular course. A course in MAT or AST can replace one of the requirements 2, 3, 4 or 5 above.
- (6) One full-course equivalent emphasizing major ideas in the sciences or social sciences: ANTA01Y, ANT323Y, ASTA03Y, NSCA01Y, NSCA02Y, POLB70Y, POLB71Y, SOCB03Y. Other courses offered by the Division of Science and the Division of Social Sciences may be chosen to fulfil this requirement upon approval by the Supervisor.
 - (7) Three further full-course equivalents in Humanities subjects, focusing on one area or theme. (Note: For the purposes of this Programme, Mathematics is also considered to be a Humanities subject.) Choice of courses must be approved by the Supervisor.

HUMA01Y Prologue* / Coordinators: M.E. Irwin, C. Ponomareff

Twenty books of central importance in Western civilization.

A comprehensive examination will be given at the completion of each subset of ten books. There is a one-hour tutorial for each book. The examination will stress the student's ability to relate the books in his own way, rather than to remember minute aspects of plot and character. At weekly informal sessions guest leaders will present aspects of each work through lectures or other media. Fall Term: *The Bible* (selections); Homer, *The Odyssey*; Sophocles, *Oedipus Rex*; Plato, *Symposium*; Herodotus, *Histories*; Virgil, *Aeneid*; Augustine, *The City of God*; Dante, *Inferno*; *Chanson de Roland*; Boccaccio, *Decameron*. Spring Term: Machiavelli, *The Prince*; Cervantes, *Don Quixote*; Montaigne, *Essays*; Vasari, *Lives of the Artists*; Galileo, *Discoveries and Opinions*; Goethe, *Faust*; Marx, *Communist Manifesto*; Darwin, *Origin of Species*; Freud, *Interpretation of Dreams*; Wagner, *Ring of the Nibelungen*. Note: For information on appropriate editions of these works, see the co-ordinators. Titles may change if editions become unavailable.

*"What's past is prologue" - Shakespeare, *The Tempest*, II, i.

Session: Winter Day

HUMA10Y Introduction to the Study of Religion / P. Gooch

An introduction to the academic study of religion, including themes appearing in the classical religious traditions as well as in contemporary quasi-religious movements. Critical examination of various definitions and methods employed in the study of religion.

The first term concentrates on social and corporate aspects of religion, as specific traditions are differentiated in varying cultural environments and develop through changing historical circumstances. The second term's work investigates aspects of individual experience and belief including mythical and symbolic expressions as well as doctrinal formulations and the philosophical critique of religion. "Para-religious" alternatives and traditional religion in the modern world are also examined. Lecture-discussions on general themes, together with reading, form the basis of the final examination. Tutorials on specific topics provide the context for up to two short papers each term. For reading prior to the course, Huson Smith, *The Religions of Man*, is suggested.

Session: Winter Day

HUMA11Y Greek and Roman Mythology / J. Grant

The emergence and treatment of myths and legends in the Greco-Roman world.

The course will examine the more important myths and legends and their representation in classical literature, drama and art, and will partly be concerned with ancient and modern theories of myth. This course will be useful to students engaged in literary and art-historical studies and will serve as an introduction to other courses in Classics. Evaluation is based on term tests, a slide test and two essays.

Session: Winter Day

HUMB15Y The Civilization of Spain / J.I. Chicoy-Dabán

Examination through readings and discussion of main aspects of the civilization of Spain.

Social, intellectual and artistic components of the civilization of Spain from pre-Roman times to the present will be studied with illustration by slides and other reference materials. Two hours per week in a lecture/tutorial format. Evaluation is based on class presentations, a final examination, and a term paper.

Exclusions: (SPAB08), SPAB09

Session: Winter Day

HUMB20Y Primitive Christian Literature and Myth / M.E. Irwin

An introduction to the New Testament set against the background of primitive Christianity as it developed in the Jewish and Hellenistic world.

In the first term we will study the historical and religious background to the New Testament and examine the Gospels in depth. In the second term we will study Acts and Paul's letters in depth and examine the rest of the New Testament and the earliest Church fathers more briefly. The class will meet two hours a week. These sessions will be either lectures or tutorials, depending on the subject matter. Christmas and final exams will count for 40%, essays for 60% (one for 10%, two for 25% each) of the final grade. Texts will be: The New Testament in a modern version (e.g. RSV, JB, NEB, NIV); Bruce M. Metzger, *The New Testament. Its background, growth and content* (Nashville & New York: Abingdon 1965); B.H. Throckmorton Jr. (ed.), *Gospel Parallels: A Synopsis of the first Three Gospels* (New York: Thomas Nelson 1957); R.N. Longenecker, *Paul, Apostle of Liberty* (Baker Book House 1976); Calvin J. Roetzel, *The Letters of Paul: Conversations in Context* (Atlanta: John Knox 1975).

Prerequisites: No formal prerequisites, but some knowledge of the biblical literature will be presupposed. Greek is desirable but not required.

Session: Winter Day

HUMB22F The Age of Pericles / J. Grant

A study of the history, literature and art of Athens in the fifth century B.C.

The course will concentrate on the second half of the fifth century. The topics studied will include the leadership of Pericles; the development of democracy; Athens as an imperial power; the confrontation with Sparta; the rise of the sophists; the architecture, sculpture and vase painting of the period. A selection of the literary and dramatic works will also be studied in translation. Most of the classes will consist of lectures, some of which will be given by guest speakers. Evaluation is based on two short papers, a midterm test and a final examination.

Session: Winter Day

HUMB24S The Age of Nero / I.R. McDonald and Staff

Nero's Rome, as it is reflected in the art, architecture, and literature of the day, and in the accounts of later Roman authors.

The course provides an introduction to Imperial Rome, a controversial Emperor, and the striking cultural milieu over which he claimed to preside. It asks what ideas are expressed in Neronian arts; how far the Emperor controlled their expression; and how far the culture (or counterculture) of the court shaped, or was shaped by, the forces of a largely bicultural Empire. A lecture format will be adopted, with frequent use of slides and some opportunity for discussion. Evaluation is based on two short written assignments and a final examination.

Session: Winter Day

HUMB29S Religion and Western Culture / A. Davies

The encounter between religious faith and Western society since the sixteenth century Protestant reformation.

The course analyzes the influence of religion on society and of society on religion as reflected in the ideas of selected religious thinkers. It examines the attempt of religion to interpret, criticize and transform society especially in light of the moral crises of the 20th century. It is a lecture course, with evaluation by essay and test. Selected readings from H. Richard Niebuhr, *Christ and Culture* and *Radical Monotheism and Western Culture*, and from Jurgen Moltmann, *Religion, Revolution and the Future*.

Session: Winter Day

HUMB44F Disaster and the Literary Imagination / C.V. Ponomareff

An exploration of the historical impact of Nazism and Stalinism, totalitarianism and war on the post-war literary imagination of Soviet Russian and West German writers at the metaphorical level of artistic perception.

The course will also examine the social and cultural relevance of creative writing in response to periods of social crisis. Five authors will be studied: W. Borchert, Ch. Aitmatov, G. Grass, B. Pasternak, H.E. Nossack. Classes will consist of lectures and discussion. Evaluation is based on one minor paper, one final exam and class participation.

Exclusion: (HUMB02)

Session: Winter Day

HUMB64Y Literary Theory and Feminism / S. Namjoshi

A discussion of the implications of a primarily male dominated literary tradition. Examples will be drawn from English, American, Canadian, and European literature.

The purpose of the course is to consider the problem of a literary tradition in which the centre of human consciousness is predominantly male and in which "woman" is usually regarded as the "other". The course is exploratory in nature, and in consequence, student participation is particularly important. Texts will include Kate Millet's *Sexual Politics* and Swift's *Words and Women*. Evaluation is based on papers and seminars.

Session: Winter Day

HUMB70Y Introduction to Cinema / M.Q. Schonberg

An introduction to the vocabulary of film criticism, major aesthetic approaches and general history (silent and sound).

Course content and methods of teaching and evaluation will be discussed at the beginning of the course. Limited enrolment: 40.

Note: There is a screening fee of \$20.00 for this course.

Session: Winter Day

HUMC01S Lyric Poetry of the Middle Ages in the Mediterranean Area / R. Barta

A comparative analysis of the representative texts or collections of texts from Hispano-Arabic, Galician-Portuguese, Castilian, Provençal, Catalán, Sicilian and Italian sources.

Close reading of texts will be supplemented by lectures concerning Classical and Medieval Rhetorics and Arts of Poetry, versification, metrics and basic Medieval rhetorical terminology. Texts will be presented in original with accompanying English translations.

Lectures and discussion in English.

Evaluation is based on one term test, one term paper, and class participation.

Prerequisites: One B-level course in either a Romance Literature or English Literature.

Session: Winter Day

HUMC10H Humanities Seminar / Co-ordinator: P. Gooch

A special half-credit seminar course, taken normally after the completion of ten credits. Each member of the seminar gives a report of individual projects undertaken by him.

This seminar is required for those registered in the Specialist Programme in Humanities and in the History of Ideas, and in the College Programme in Myth and Religion: it is taken after completion of ten full-course equivalents. It is available to students registered in the Programmes in Renaissance Studies. Topics for the seminars should be chosen in consultation with the Supervisor. They should build upon work taken in other courses, and should attempt to relate material from two or more disciplines. Evaluation is based on two papers (or one longer paper) and the seminar performances.

Prerequisite: Any ten courses.

Session: Winter Day

HUMC11Y The Darwinian Revolution / R.P. Thompson

An examination of the impact of Darwin's *The Origin of Species* on biology and society. This course will examine the influences which helped shape the first drafts of the theory of natural selection, the logical structure of Darwin's argument in *The Origin of Species*, the development and structure of the modern synthetic theory of evolution and the impact of evolutionary theory on modern biology.

The presentation will be a lecture/seminar format. Evaluation will be based on three essays and two examinations.

Prerequisites: BIOB05 or BIOB11 or PHLB70 or PHLB71F and permission of the instructor

Session: Winter Day

HUMC14Y Romance Philology / R.I. Binnick

An introduction to the history, development and present state of the Romance family of languages from their development out of late spoken Latin to the present day.

Emphasis will be placed on the roles of the Romance languages as literary and national tongues. The changes entailed by separation of the vernacular tongues from late Latin and by the creation of new national languages in the Middle Ages will be discussed. Stress will be put on lexical, grammatical, and stylistic comparisons and contrast.

This will be primarily a lecture course with discussion where appropriate. Evaluation will be a mix of examination and papers; if class interest and time permit, some of these papers will take the form of class presentations. Readings will principally be from the textbook, W.D. Elcock, *The Romance Languages*, or from a similar work.

Prerequisites: LINA01; two full-course equivalents, one of which must be at the B-level, in one of the following languages: French, Italian, Latin, or Spanish. It would also be an asset, but it is not a prerequisite, to have some knowledge of Latin and/or a second Romance language.

Session: Winter Day.

JHEC13Y Advanced Seminar in Literary Theory and Criticism / E.P. Vicari

A study of literary criticism and theory from Plato to the present, with emphasis on problems of twentieth-century criticism.

In addition to surveying the history of criticism, the student will study such questions as: What is a work of literary art? How does it differ from statement and propaganda? What is criticism? How does one evaluate a work of literary art? How does one evaluate criticism? The major text will be *The Great Critics*, ed. Smith.

Students will be expected to contribute to seminar discussion and to lead seminars in their turn. There will be no lectures. Evaluation will be based on the presentation of papers in the seminar, contribution to discussion and two major essays.

Prerequisites: Three courses in English, at least one at B-level; or three courses in literature and permission of instructor

Session: Winter Day

HUMC19F Contemporary Fiction and its Backgrounds / S. Mittler

A study of important twentieth-century English, French, Latin American, Russian, German and Italian works of fiction.

Attention will be focussed on modern innovations in narrative technique, including the reader's creative participation and the representation of subject matter in the framework of time and space. Prose examined will include Gide's *The Immoralist*, Bulgakov's *The Master and Margarita*, Grass' *Cat and Mouse*, Fowles' *The French Lieutenant's Woman*, and short stories by Borges, Calvino and Joyce. Students with reading knowledge of a foreign language are encouraged to read in the original. The course will be a combination of lectures and discussion. Evaluation will be based on one term paper, a brief paper and/or seminar presentation, and a final examination.

Prerequisite: One B-level course in literature or permission of instructor.

Session: Winter Day

HUMC95-99Y Individual Study Year / Staff

An opportunity for advanced students to spend a year following their own studies under the supervision of a committee of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major papers or projects in their chosen areas, and will take an oral examination at the end of the year before an appropriate board of faculty. Those interested in enrolling should contact the Divisional Chairman by the end of May 1980. (For a year of individual study, students must enrol in all five courses. Those who wish to take Individual Studies should consult disciplinary listings.)

Prerequisite: Permission of the Division of Humanities Committee on Individual Study.

HUMANITIES COURSES NOT OFFERED IN 1980-81**JHSB04Y The Bloomsbury Group**

Prerequisites: Normally three courses selected from Art History, Economics, English, Philosophy or Political Science at least one of which should be in English Literature.

HUMB13Y The Russian Revolution of 1917. Promise and Fulfilment, Ideals and Realities

Exclusion: HUMB30

HUMB17Y The European Experience: Man and Society in the Twentieth Century French and Italian Novel

Exclusion: HUMB03

HUMB18S Modern Italy

Exclusion: ITAB20

HUMB19S Beyond Consciousness

Exclusion: HUMB51

Prerequisite: One course in psychology, philosophy, or literature

HUMB23S The Age of Augustus**HUMB25F The Age of Homer****HUMB27S Science Fiction****HUMB28Y Major Religious Traditions, East and West****HUMB33Y World Visions from the late Middle Ages to the Renaissance****HUMB34F/S Hercules: Man of Action**

Exclusion: HUMB06

HUMB35F "The Ulysses Factor"

Exclusion: HUMB07

HUMB36Y Orpheus: The Quest for Beauty

Exclusion: HUMB08

HUMB37F/S Atlantis

Exclusion: HUMB09

HUMB38F/S Utopia: From More to Huxley

Exclusion: HUMB10

HUMB39F/S Fantasy in Narnia and Middle Earth

Exclusion: HUMB05

HUMB40Y Russian and English Nineteenth Century Fiction

Exclusion: HUMB31

HUMB42S	Dostoevsky and the West
HUMB43F/S	The Emergence of Modern Prose <i>Exclusion:</i> HUMB01
HUMB45S	The Spanish Civil War: Fact to Fiction
HUMB50S	Machiavelli and Aspects of the Italian Renaissance <i>Exclusion:</i> ITAB33
HUMB54F	The Crisis of Contemporary Society in Modern Italian Drama <i>Exclusion:</i> ITAB15, ITAB16, ITAB27
HUMB55Y	The Twentieth Century Latin American Novel and The European Tradition
HUMB61S	Women in Ancient Greece <i>Exclusion:</i> HUMB41
HUMB71F	Italian Cinema <i>Exclusion:</i> JHIB90
HUMC20Y	Jesus in Early Christianity and Judaism <i>Prerequisite:</i> HUMB20
HUMC21F	Paul: Apologist, Envoy and Theologian <i>Prerequisite:</i> HUMB20 or CLAB23
HUMC22S	John: Gospel and Letters <i>Prerequisite:</i> HUMB20 or CLAB23
HUMC25Y	The University <i>Prerequisites:</i> Any two B-level courses

A study of literary criticism and theory from Plato to the present, with emphasis on problems of twentieth-century criticism.

ITALIAN

Discipline Representative: A. Franceschetti

Scarborough College offers a wide range of courses on the language and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITAA01 or ITAA11. ITAA01 students may then take ITAB01, which is a prerequisite for literature courses as well as for the more advanced language courses. Students with Grade 13 Italian (or equivalent) and students from ITAA11 may take ITAB11 as a prerequisite for literature and more advanced language courses. In all courses, emphasis is given to the spoken as well as written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian as adjuncts to his plan of study or as an enrichment of his total programme. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Art, Music, and English, French, Latin, and Spanish Literature.

Students enrolled in Italian, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

Students are not allowed to take any A-level courses in Italian while taking or after completing any B-level course in Italian.

Students may be excluded from any given course if their knowledge of Italian is deemed by the instructor to exceed the level of the language of that course.

Major Programme in Italian Language

Supervisor: G. Katz

The Major Programme in Italian Language consists of seven full-course equivalents, as follows:

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

- (1) ITAA01Y Introductory Italian
- (2) ITAA02H Introductory Italian Language Practice
- (3) ITAA03S Conversation II

- (4) ITAB01Y Intermediate Italian I
- (5) ITAB03F Intermediate Conversation I
or
ITAB04F/S Advanced Composition
- (6) ITAB06S Intermediate Conversation II
or
ITAB05F/S Practical Translation
- (7) ITAC01Y Language Practice
- (8) ITAB20F/S Modern Italy
- (9) ITAB22F Introduction to Modern and Contemporary Italian Literature
- (10) LINA01Y General Linguistics

Option B (for students with some prior knowledge of Italian or one of its dialects):

- (1) ITAA11Y Elementary Italian
- (2) ITAA03S Conversation II
- (3) ITAB11Y Intermediate Italian II
- (4) ITAB03F Intermediate Conversation I
or
ITAB04F/S Advanced Composition
- (5) ITAB06S Intermediate Conversation II
or
ITAB05F/S Practical Translation
- (6) ITAC01Y Language Practice
- (7) ITAB20F/S Modern Italian Culture and Civilization
- (8) ITAB22F Introduction to Modern and Contemporary Italian Literature
- (9) ITAB23F/S Survey of Italian Literature Starting from the Middle Ages
- (10) LINA01Y General Linguistics

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of Italian. Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

Major Programme in Italian Language and Literature

Supervisor: A. Franceschetti

Students are required to complete seven full-course equivalents as follows:

- (1) Three full-course equivalents in Italian Language
- (2) Three full-course equivalents, including ITAB21Y and ITAB31Y, in Italian Literature.
- (3) One full-course equivalent selected from among the offerings in Italian or from the Humanities Discipline's offerings (e.g. in HUM) which concentrate on Italian culture, civilization and literature.

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of Italian. Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

See also the Specialist Programmes in Modern Languages and Language and Literature.

ITAA01Y Introductory Italian

An elementary course for students with no knowledge of Italian. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.

Our aim is to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking needed for the corequisite course A02H. The basic Italian textbook is supplemented by dialogues made up by the students and easy readings commencing as early as progress in the textbook permits. A programme is also provided in the language laboratory for those who wish to make use of it. Students are expected to participate in classroom exercises, *hand in written assignments completed outside the classroom*, and write monthly exams. There are three hours of class per week. Further information will be available later in Room H525A.

Exclusion: ITAA11

Corequisite: ITAA02. It is strongly recommended that students enrolled in ITAA01 and ITAA02 take ITAA03 concurrently with them in the Spring term.

Session: Winter Day

ITAA02H Introductory Italian Language Practice

Practical application of the language structures introduced in ITAA01.

As with the corequisite A01Y, our aim is to provide a relaxed, friendly atmosphere in which to learn basic standard Italian. The two hours weekly of classtime are devoted entirely to conversing in Italian. At the beginning students are given set dialogues which they practise with one another, and as they gain confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest. The grade is based on classroom participation, oral reports, and oral examinations. The grade assigned will be Honours/Pass/Fail. (See above p.22). Further information will be available later in Room H525A.

Corequisite: ITAA01

Session: Winter Day

ITAA03S Conversation II / S. Mittler

Practical application of the language structures introduced in ITAA01 and ITAA11.

Students are encouraged to speak Italian in a relaxed, informal classroom atmosphere. Conversations are based on situations that the student is likely to encounter in Italy as well as on readings prepared at home from literary works, newspapers and magazines. Among the topics chosen are the geography, history, politics, economics and cultural life of contemporary Italy. Students are expected to participate in classroom discussion, make oral presentations, and take an oral examination. There are three hours of class per week. The grade assigned will be Honours/Pass/Fail. (See above p. 22)

Corequisite: ITAA01 or ITAA11

Session: Winter Day

ITAA11Y Elementary Italian / G. Katz

An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.

The course aims at giving a basic knowledge of speaking, reading and writing Italian. The main objective is to free the student of the phonological, lexical and grammatical interference, from both dialects and English, found in the Italian community. Basic grammar rules will be studied and modern prose passages will be analyzed from the point of view of grammatical structure, lexical choice and idiomatic expressions. The course will be conducted almost entirely in Italian. There will be three hours of lectures per week; the use of the language laboratory is highly recommended. Evaluation is based on oral and written exams, class participation and work done at home.

Exclusion: ITAA01

Corequisite: It is strongly recommended that students enrolled in this course take ITAA03 concurrently with it.

Session: Winter Day

ITAB01Y Intermediate Italian I

A continuation of ITAA01. Intensive review of the grammar, with drills, exercises and compositions.

The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments on or summaries of the readings discussed in class. The course will be conducted in Italian whenever possible. There will be three hours of lectures per week. Evaluation is based on six written exams (70%), class participation and work done at home (compositions and written grammar exercises, 30%). Further information will be available later in Room H525A.

Exclusions: ITAB11 and (ITAB02)

Prerequisites: ITAA01 or equivalent

Corequisite: It is strongly recommended that students enrolled in this course take ITAB03 and B06 concurrently with it.

Session: Winter Day

ITAB03F Intermediate Conversation I / G. Katz

An advanced course in conversation for those students with a knowledge of Italian. Attention will be given to idioms and special constructions focusing on Italian culture and civilization.

This course offers the opportunity to improve oral and aural skills in Italian. Students will be expected to prepare topics of common interest for discussion in class by doing background reading on selected topics and by preparing the specialized vocabulary of those topics. At least two oral reports on an agreed-upon subject related to Italian culture and civilization will be required of each student. The course will meet three hours per week. Evaluation is based on class participation, oral reports and a final oral examination. The grade assigned will be Honours/Pass/Fail. (See above p. 22)

Exclusion: ITAB06

Corequisite: ITAB01 or ITAB11

Session: Winter Day

ITAB06S Intermediate Conversation II / G. Katz

A continuation of ITAB03.

This course aims to develop as fully as possible the student's facility with the language and continues the program outlined in ITAB03. The same evaluation is used as for ITAB03. The grade assigned will be Honours/Pass/Fail. (See above p. 22)

Corequisite: ITAB01 or ITAB11

Session: Winter Day

ITAB11Y Intermediate Italian II / G. Katz

A continuation of ITAA11Y. The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments on or summaries of the readings discussed in class. The course will be conducted in Italian. There will be three hours of lectures per week. Evaluation is based on six written exams, class participation and work done at home.

Exclusions: ITAB01 and (ITAB02)

Prerequisites: ITAA11; Grade 13; or equivalent

Corequisites: It is strongly recommended that students enrolled in this course take ITAB03 and ITAB06 concurrently with it.

Session: Winter Day

ITAB20F Modern Italy / G. Katz

An introduction to the events and ideas which have contributed to the making of modern Italy.

This course is conducted in Italian. It aims to help the student understand the complex social and cultural milieu in which life is conducted in present-day Italy. Readings from a variety of literary and historical texts form the basis for the three weekly hours of discussion of topics outlined by the instructor. During the course of the term the student is expected to contribute to the classroom discussion and make at least one oral presentation; write at least one essay on a topic agreed upon with the instructor; and write a final exam.

Exclusion: HUMB18

Prerequisites: ITAB01 or ITAB11 or (ITAB02)

Session: Winter Day

ITAB22F Introduction to Modern and Contemporary Literature / S. Mittler

An introduction to the reading of literary texts designed to aid the student in the comprehension, analysis, and enjoyment of Italian literature.

The major modern theme of the individual in society will be examined in selections from the works of influential novelists, poets and dramatists of the nineteenth and twentieth centuries. Texts include Manzoni's *Promessi sposi*, Leopardi's *Canti*, Verga's *I Malavoglia*, Moravia's *La Noia*, Pirandello's *Enrico Quarto*, Pavese's *La luna e i falò*, poetry by D'Annunzio and short story selections from Calvino.

This course will be conducted in Italian and will be a combination of lectures and discussion. Evaluation will be based on essay(s), oral presentation(s) and a final examination.

Exclusion: ITAB21

Prerequisites: ITAB11 or B01

Session: Winter Day

ITAB23S Survey of Italian Literature from the Middle Ages to the Renaissance / G. Katz

A selection of main figures and periods of Italian literature will be discussed from the point of view of three basic themes: "woman", "nature" and "society".

The passages to be read will be taken from the *Dolce Stil Novo*, Dante's *Divine Comedy*, Boccaccio's *Decameron*, Poliziano's *Stanze*, Machiavelli's *Mandragola*, Ariosto's *Orlando Furioso*, Tasso's *Gerusalemme Liberata*.

This course will meet for three hours per week. Discussion will be conducted in Italian. Evaluation will be based on essay(s), oral presentation(s) and a final examination.

Exclusion: ITAB21

Prerequisites: ITAB11 or ITAB01 or (ITAB02)

Session: Winter Day

ITAB31Y Dante and Medieval Culture / A. Franceschetti

An introduction to Medieval Italian literature with special reference to Dante.

This course aims to introduce to the student the problems, mentality, social and cultural patterns of man in the Middle Ages with specific reference to literary phenomena such as Provençal lyrics and old French poetry and epics. The origins and development of medieval literature will be examined, leading up to Dante and the masterpiece of the Middle Ages, *The Divine Comedy*. The course will include a brief survey of Dante's minor works and their significance in terms of the life and culture of the times. There will be three hours of lectures with discussion per week. Class participation and student's comments are strongly encouraged. The final mark is based on term tests, an oral report and class participation.

Prerequisites: ITAB01 or ITAB11 or (ITAB02)

Session: Winter Day

ITAB34F The Renaissance Epic / A. Franceschetti

A brief survey of the origins of epic poetry in the Middle Ages will precede the study of the masterpieces of the Renaissance Epic: Pulci's *Morgante*, Boiardo's *Orlando Innamorato*, and Ariosto's *Orlando Furioso*.

This course aims to give the student an adequate knowledge of the artistic and cultural significance of the masterpieces of Italian Renaissance chivalric literature. Selected passages from the three poems will be read and discussed in class. The lectures will stress Pulci's comical and humoristic attitudes towards chivalric institutions and conventions, Boiardo's idealistic vision of man, and Ariosto's participation in both these attitudes as well as his role as "inventor of the modern novel". There will be three hours of lectures with discussion per week. The final mark is based on term tests, an oral report and class participation.

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

Session: Winter Day

ITAB40S Reformation and Baroque Literature / A. Franceschetti

The creation of a new lyric expression in Tasso's *Gerusalemme Liberata* and other poetry; its development in Marino and the Marinisti.

The aim of this course is to provide the student with an adequate knowledge of the artistic and cultural aspects of Italian literature from the middle of the sixteenth to the middle of the seventeenth centuries. During the three hours of lectures per week selected passages of Tasso's works will be read and discussed in class. Emphasis will be placed on his innovations in the Renaissance tradition and his relevance to subsequent developments of Italian lyric poetry, as exemplified in Marino's writings and those of his followers. Students' oral reports will focus on other cultural characteristics of the period. The final mark is based on term tests, an oral report and class participation.

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

Session: Winter Day

ITAC01Y Language Practice / A. Franceschetti

An advanced language course focusing on complex problems of Italian grammar, with readings, translations and compositions.

This course is designed to give students an opportunity to improve their knowledge of written and oral Italian on an advanced level. Specific points of grammar, syntax and style will be discussed and exemplified with drills and exercises. Students will be asked to write short compositions. A selection of passages by modern Italian authors will provide the necessary material for stylistic analyses, summaries and paraphrases. There will be three hours of class per week. The final mark will be based on term tests, class participation and work done at home and oral presentations.

Prerequisites: ITAB01 or ITAB11 or (ITAB02)

Session: Winter Day

ITAC50F-54F**ITAC55S-59S****ITAC60Y Supervised Reading / Staff**

These courses are designed to provide advanced students an opportunity to pursue independent study on specific aspects of Italian language and literature of their own choice. The students are expected to do most of the reading by themselves and to meet regularly with a faculty member to discuss problems arising from the chosen topic of study. The teaching method and the evaluation will vary according to the subject matter and the individual student. Interested students should contact the Discipline Representative.

Prerequisite: One full-course equivalent in Italian literature.

Session: Winter Day

COURSES NOT OFFERED in 1980-81**ITAB04F/S Advanced Composition**

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB05F/S Practical Translation

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB12F/S The Twentieth Century Novel

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB13F/S Modern Italian Poetry

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB27F/S Modern Italian Theatre from Pirandello to the Present

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB32F/S Petrarch and Boccaccio

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB33F/S Machiavelli and Renaissance Thought

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB35F/S Italian Sixteenth Century Theatre

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB36F/S Lyric Poetry of the Renaissance (from Poliziano to Michaelangelo)

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB41F/S Italian Eighteenth Century Theatre

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB43F/S Foscolo and Leopardi

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB44F/S Manzoni

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

ITAB45F/S The Nineteenth Century Italian Novel in Transition

Prerequisite: ITAB01 or ITAB11 or (ITAB02)

JOINT COURSES

For a description of these courses please refer to the disciplines concerned:

Biology and Chemistry

JBCB35Y	Introductory Biochemistry
JBCB36H	Laboratory in Chemistry

Commerce and Economics

JCEB54S	Industrial Relations
JCEB72F	Analysis for Decision Making I
JCEB73S	Analysis for Decision Making II
JCEC02Y	Corporation Finance
JCEC40S	Public Policy Towards Business

Commerce and Sociology

JCSB27Y	Organizational Behaviour
---------	--------------------------

Humanities and English

JHEC13Y	Advanced Seminar in Literary Theory and Criticism
---------	---

Linguistics and Psychology

JLPB55F	Psycholinguistics
---------	-------------------

Mathematics and Computer Science

JMCC31F	Combinatorics (not offered in 1980-81)
JMCC48S	Applied Algebra (not offered in 1980-81)
JMCC51S	Numerical Methods

Mathematics and Philosophy

JMPB50F	Symbolic Logic
JMPC51S	Symbolic Logic II

Physics and Astronomy

JPAC10Y	Relativity and Cosmology
---------	--------------------------

Physics and Mathematics

JPMC42S	Advanced Classical Mechanics
---------	------------------------------

LANGUAGE AND LITERATURE

Specialist Programme

Supervisor:

Students wishing to follow this Specialist Programme should complete the *Major in Language and Literature* in two of the following disciplines:

English,
French,
Classical Studies (Greek or Latin),
Italian,
Russian,
Spanish.

In addition, one full-course equivalent should be chosen from the following, the choice to be approved by the Supervisor:

ENGB95Y	English Literary Criticism
FARA03Y	Aspects of Western Culture from the Renaissance to Modern Times
HUMA01Y	Prologue
HUMA11Y	Greek and Roman Mythology
PHLB03F/S	Philosophy and Art
PHLB04F/S	Philosophy and Literature

LATIN

Courses are offered in introductory Latin (LATA01, LATA10) and Latin literature (LATB01, LATB30, etc.).

LATA01Y	Introductory Latin
LATA10F	Introduction to Latin Authors
LATB01S	Catullus
LATB30F-33F	
LATB35S-39S	
LATB40Y	Supervised Reading
LATC01F-02S	Independent Studies

For further information see under Classical Studies.

LINGUISTICS

Discipline Representative: D. Woods

Linguistics is the science of language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LINA01, LINB11, and LINB04). Linguists draw on the findings of Philosophy, Psychology, Sociology, and Biology to create new frontiers of research. This new science is reflected in LINB07, JLPB55, LINB15 and other courses.

Language is, of course, of interest to many people who see it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LINA04, LINB09, LINB26 and LINB27.

Specialist Programme in Linguistics

Supervisor: R.I. Binnick

The Specialist Programme in Linguistics may be taken in one of three ways, depending on whether the student wants to focus on general linguistics, psycholinguistics, or sociolinguistics. Each involves a core of four basic full-course equivalents, as follows:

- | | | |
|-----|---------|--|
| (1) | LINA01Y | General Linguistics |
| (2) | LINB11Y | Syntax and Semantics |
| (3) | Two of: | |
| | LINB09F | Phonetics |
| | LINB02S | Phonology |
| | LINB04S | Historical and Comparative Linguistics |
| (4) | LINC21Y | Structure of a Language |
| | or | |
| | LINC22Y | Comparative Study of a Language Family or Area |

In addition to these, students must choose one of the following three areas of concentration:

I General Linguistics Concentration:

Students must complete eight additional full-course equivalents, to be constituted as follows:

- | | | |
|-----|---|--|
| (5) | LINB07Y | Sociolinguistics |
| | or two of: | |
| | JLPB55F | Psycholinguistics |
| | LINB15S | Developmental Psycholinguistics |
| | LINB27F | Animal Communication |
| (6) | Four further full-course equivalents in Linguistics, not to include LINA04F/S | |
| (7) | One full-course equivalent from among the following courses: | |
| | ANTB30Y | Language and Culture |
| | ENGB01Y | Old English Language and Literature |
| | FREB25Y* | Introduction to French Linguistics |
| | FREB42F* | General History of the French Language |
| | FREB43S* | The French Language in Canada |
| | FREB48Y* | Theoretical and Practical Phonetics |
| | GERB33S* | History of German |

GERB36F*	Structure of German
GERC23F*	Introduction to Middle High German
PHLB80F/S*	Philosophy of Language
SPAB04F*	Phonetics
SPAB12S*	History of the Spanish Language

* Students should check these courses for prerequisites.

- (8) Two full-course equivalents in a language which is not the student's native language.
- (9) The student must also, in addition to his native language and the language taken under (8), have some knowledge of a third language; this requirement can be satisfied by either:
- a demonstration that the student's knowledge is equivalent to that acquired in one full course at the university level (to be decided in consultation with the Supervisor), or
 - the student's taking one further course in such a language at the university level.

II Psycholinguistics Concentration:

Students must complete ten additional full-course equivalents, to be constituted as follows:

- (5) Two of:
- | | |
|---------|---------------------------------|
| JLPB55F | Psycholinguistics |
| LINB15S | Developmental Psycholinguistics |
| LINB27F | Animal Communication |
- (6) Two further full-course equivalents in Linguistics, not to include LINA04F/S
- (7) PSYA01Y
- (8) Four full-course equivalents from among the following:
- | | |
|----------|-------------------------------------|
| PSYB07F | Data Analysis in Psychology |
| PSYB20F | Developmental Psychology |
| PSYB40F* | Learning |
| PSYB41F* | Operant Conditioning |
| PSYB50F | Sensation and Perception |
| PSYB51F | Perceiving and Knowing |
| PSYB52S* | Human Information Processing |
| PSYB57S* | Human Learning and Memory |
| PSYB60F | Brain Mechanisms and Behaviour: I |
| PSYB65F | Biological Foundations of Behaviour |

* Students should check these courses for prerequisites.

- (9) Either (a) two further full-course equivalents in Linguistics, or (b) two full-course equivalents in a language which is not the student's native language. If (b) is chosen, the student may satisfy this requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).

Students are also encouraged to complete a course in Calculus or Statistics.

III Sociolinguistics Concentration:

The student must complete nine additional full-course equivalents, to be constituted as follows:

- (5) All of the following:
- | | |
|---------|----------------------------|
| LINB07Y | Sociolinguistics |
| SOCA01Y | Introduction to Sociology |
| SOCB01Y | Methods in Social Research |
- (6) Two of:
- | | |
|---------|-----------------------|
| SOCB10Y | Social Stratification |
| SOCB13Y | Canadian Society |
| SOCB16Y | Social Change |
- (7) Two further full-course equivalents in Linguistics, not to include LINA04F/S
- (8) Either (a) two further full-course equivalents in Linguistics, or (b) two full-course equivalents in a language which is not the student's native language. If (b) is chosen, the student may satisfy this requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).

Major Programme In Linguistics

Supervisor: R.I. Binnick

Students must complete seven full-course equivalents, as follows:

- (1) LINA01Y General Linguistics
- (2) LINB11Y Syntax and Semantics
- (3) Two of:

LINB09F	Phonetics
LINB02S	Phonology
LINB04S	Historical and Comparative Linguistics

Students must also complete *either* four other full-course equivalents in LIN *or* three other full-course equivalents in LIN plus one C-level full-course equivalent in a language. (Only the first option is permitted when this programme is taken as part of the Modern Languages Specialist Programme). JLPB55F can be included as a LIN course. LINA04F/S cannot be counted towards the Major.

LINA01Y General Linguistics / R.I. Binnick and P.H. Salus

In this introductory course various methods of linguistic analysis will be discussed, as well as the form and content systems which comprise language.

Among the questions considered will be the processes of producing and comprehending speech, first and second language acquisition, and the ideal structures which underly actual utterances.

Evaluation will be by a mix of examinations and written homework assignments, possibly with a factor for participation, and will be arranged in consultation with the class. This is a lecture course with tutorial sections for discussion. The textbook is normally an introductory Linguistics book, such as Akmajian et al., *Introduction to Linguistics*, and will provide most of the readings; there will also be a workbook with problems for homework and class discussion.

Exclusion: (LINA03)

Session: Winter Day

LINA04F/S Introduction to Language / S. Whalen

A general introduction to the nature of language. This is a non-technical introduction and cannot serve as a prerequisite for further linguistics courses (unless specified).

The course will examine language communication: under what conditions it takes place, how it modifies and affects the human condition and the realities of social life and is in turn modified and affected by them. Among the topics covered will be: the relationship of written and spoken language; the history of English and related languages; the problem of bilingualism in Canada; animal communication; speech disorders. There will be lectures, discussions, films. The texts used will be Haugen/Bloomfield, *Language as a Human Problem*, and Crystal, *Linguistics*. Evaluation will be on the basis of two term tests and one term paper.

Exclusion: LINA01

Session: Fall Day, Spring Evening

LINB02S Phonology / J.D. Woods

The sounds of language and their analysis: theoretical approaches to the sound patterns of various languages. Synchronic and diachronic views of sound systems.

An introduction to phonological theory and method, especially such areas as segmental phonology, phonological patterns, distinctive features, redundancy, phonological processes, phonological rules, underlying representations, ordered rules, derived representations, nonphonological effects, and natural phonology. Tentative choice of texts: Schane, Sanford A., *Generative Phonology*, Toronto: Prentice-Hall, 1973; and Schane, Sanford A. and Birgitte Bendixen, *Workbook in Generative Phonology*, Toronto: Prentice-Hall, 1978. We will discuss material from the text and problems which are to be solved. Three hours a week. Evaluation is based on class participation and tests; exact percentages to be worked out at the beginning of the course.

Exclusion: LINB12

Prerequisite: LINA01

Session: Winter Day

LINB04S Historical and Comparative Linguistics / J.D. Woods

Language change and language relationships: linguistic typology; language universals; language families.

Topics for study include: models of language development (neogrammarian, structuralist, transformational-generative); language contact: dialect geography, social motivation of language change, contact between languages, language prehistory. Tentative choice of text: Bynon, Theodora. *Historical linguistics*, New York: Cambridge University Press 1977 (plus various articles). Three hours a week.

Evaluation to be based on two or three term tests and class participation; exact percentages to be worked out at the beginning of the course.

Exclusion: LINB12

Prerequisite: LINA01

Session: Winter Day

LINB07Y Sociolinguistics / S. Whalen

The structure and use of language as it relates to social and cultural functions. The application of socio-linguistic research to Canada will comprise approximately half of the year's work.

The course has a twofold objective: theoretical and practical. The theoretical part deals with the speech situation, social implications of speech varieties, language maintenance, bi- and multi-lingualism, role of language in shaping national identity and influencing political boundaries. On the practical side, students participate as a group in actual research, collecting and analyzing data and preparing a report of their findings. The text will be: T.J. Platt & H.K. Platt, *The Social Significance of Speech*, North Holland Publishing, 1975. Evaluation will be on the basis of three term tests, class presentations and participation in research.

Prerequisite: LINA01 or (LINA03) or SOCA01 or SOCA02

Session: Winter Day

LINB09F Phonetics / J.D. Woods

The physiological and acoustic bases of language.

An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved. Tentative choice of text: Ladefoged, Peter, *A Course in Phonetics*, New York: Harcourt Brace Jovanovich, 1975 (plus various articles). Evaluation is based on class participation and tests; exact percentages to be worked out at the beginning of the course.

Prerequisite: LINA01

Session: Winter Day

LINB11Y Syntax and Semantics / R.I. Binnick

The study of sentence structure, including the major grammatical processes, e.g. transformational rules, the principle of the cycle, the relationship between syntax and semantics; grammatical and lexical meaning; literal vs. conveyed meaning, presuppositions, the influence of extra-linguistic context on language.

Emphasis will be on the way words are put together to form sentences, with some discussion of the role grammar plays in determining the meaning of those sentences. This is primarily a lecture course with discussion. Evaluation is by a mix of examinations and homework problems, with possibly a factor for participation, and will be arranged in consultation with the class. The textbook is normally an introductory syntax text, such as Akmajian and Heny, *Introduction to Transformational Syntax*.

Exclusion: (LINB03); (LINB06)

Prerequisite: LINA01 or (LINA03)

Session: Winter Day

LINB15S Developmental Psycholinguistics / P.H. Salus

The development of the facility for speech in childhood. Acquisition of a first language. The neurological prerequisites for speech and writing. This course is a continuation of JLPB55.

All you always wanted to know about how kids learn to talk, but were afraid to ask. There will be lectures and discussions. Evaluation will be on the basis of one one-hour test, three brief (three page) papers and one final examination.

Prerequisites: One full-course equivalent in LIN, PSY, SOC or ANT

Session: Winter Day

LINB27F Animal Communication / P.H. Salus

The ways in which various non-human species convey information. Crickets and bees, fish, songbirds, geese, canines, and primates other than man will be studied. Visual, olfactory and auditory modalities.

Where do bees find nectar? How does a cygnet find his mother? Which wolf is boss? Why do fish school? How does a stickleback know when he's in "foreign territory"? Who are Clever Hans, Viki, Gua, Sarah, Washoe, and Lana? Who are Lorenz, Smith, Thorpe, Tinbergen and von Frisch? There will be lectures, discussions, and films. Evaluation will be on the basis of one in-class test, a paper, and a final examination.

Prerequisite: One full-course equivalent in LIN, PSY, SOC, or ANT

Session: Winter Day

JLPB55F Psycholinguistics / P.H. Salus

The course presents theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.

The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and Phylogenesis will be discussed.

There will be lectures, films and discussion. Evaluation will be based on two one-hour exams and two brief papers.

Exclusion: LINB05

Prerequisite: LINA01

Session: Winter Day

LINC01F**LINC02S****LINC03F****LINC04S****LINC05Y Supervised Reading / Staff**

Interested students should contact Professor J.D. Woods, Discipline Representative. The aim of these courses is to allow the advanced student of Linguistics to engage in research; this research is normally at a level which is more advanced than other Linguistic courses which the student has already taken, and in an area which is of the student's own choosing. Methods of research and of evaluation are as varied as the possible areas of research.

Prerequisite: At least one B-level full-course equivalent in Linguistics; permission of instructor.

Session: Winter Day

LINC21Y Structure of a Language / J.D. Woods

This course puts linguistic theory to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who is involved in the course.

The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year. Evaluation is based on class participation and the quality of each member's contribution to the grammar.

Exclusion: LINB10

Pre- or Corequisite: LINB02, LINB11

Session: Winter Day

COURSES NOT OFFERED in 1980-81**LINB08S Scripts**

Prerequisite: LINA01 or LINA04

LINB26S Languages of the World

Prerequisite: LINA01, LINA04, or one full-course equivalent in Psychology or Anthropology

LINB28F	Language and Sex <i>Prerequisite:</i> One full-course equivalent in LIN, SOC, ANT, ENG, or PSY
LINC10Y	Studies in Syntax and Semantics
LINC12F	Dialectology
LINC22Y	Comparative Study of Language Family or Area

MATHEMATICS

Staff member responsible for curriculum: M. Evans

The development of mathematics was induced by the inherent need to describe and analyse elements of the physical world as accurately as possible. Applied mathematics and statistics are still concerned with the building of models for use in real-world contexts. Pure mathematics is concerned with systems of axioms and the true statements or theorems which can be deduced from them. While pure mathematics is not necessarily initially motivated by practical considerations, there are numerous instances where this solution of problems in other branches of science has been based upon previously developed pure mathematical theory. The wide applicability of both the techniques of the subject and the method of reasoning employed suggests that most students could profit by taking some courses in mathematics.

Mathematics and Statistics courses are divided into four sections:

- MATA22 is a prerequisite for some non-science programmes. Completion of this course does not qualify the student to proceed to further courses in Mathematics, Computer Science or Statistics.
- MATA26, B41-42
STAB52-57, C52F, C67S
These courses, primarily for science and social science students, emphasize practice rather than the rigorous development of theory.
- JMPB50-C51
A course in logic listed as a joint course in Mathematics and Philosophy.
- All other courses in Mathematics emphasize rigour. Many of these courses are required for Programmes in Mathematics or Physics.

"A" Level - Calculus Courses

MATA55Y	Calculus: an Introduction to Analysis
MATA26Y	Calculus
MATA22Y	Calculus with Statistics

Comparison

MATA55 is a theory course. The emphasis is on why theorems are true, and students are expected to learn how to prove theorems. This course together with MATA40F and MATA45S is essential for students who wish to specialize in Mathematics or theoretical Physics. A student who completes MATA55 together with MATA40F and MATA45S may take any of the second year Mathematics courses.

MATA26 is a practical course taught at a high level. There is emphasis on applications and no attempt is made to provide rigorous proofs. MATA26 is advisable for students who wish to take some courses in physical sciences or Mathematics in higher years. A student who completes MATA26 may take MATB41F and B42S, STAB52F and B57S in second year and the sequels to these courses in third year. The student will not be eligible to take some of the advanced Mathematics courses.

MATA22 is essentially a calculus course with some applications to statistics. It is designed for students who have had no previous experience with calculus. A student should enrol in MATA22 only if he or she does not wish to take further Mathematics courses.

Irrespective of course prerequisites, Grade 13 students are urged to take as many of the Grade 13 mathematics courses as possible.

Specialist Programme in Mathematics

Supervisor: J. Wilker

The Specialist Programme is designed to give students a thorough grounding in the main areas of Mathematics. It is aimed at those students who may wish to pursue a career in mathematical research, teaching or in applications within government and industry.

In this Programme a total of eleven full-course equivalents are required. During their first year, students should complete MATA40F, MATA45S, MATA55Y, CSCA58F and CSCA68S.

In addition students must complete MATB50F and MATB55S, MATB40F, MATB25, STAB52F and STAB57S, MATC44F and MATC49S, MATC51F and MATC56S, MATC53Y, MATC60F and MATC65S. Students must also take at least one full-course equivalent chosen from the following: MATB45S, MATB70S, MATC54F, JMCC31F.

Students are urged to choose at least two additional courses in other disciplines where mathematics is applied, such as Astronomy, Biology, Chemistry, Computer Science, Economics and Physics.

The selection of optional courses should be made in consultation with the Supervisor.

Major Programme in Mathematics

Supervisor: J. Wilker

The Major Programme is designed for students who wish a good basic understanding of mathematical techniques rather than the full development of the theory. Students whose major field involved applications of Mathematics and Statistics would find this Programme suitable.

In this Programme a total of eight full-course equivalents are required. Students are required to complete MATA26Y or MATA55Y, MATA40F, MATA45S, CSCA58F, CSCA68S, (MATB41F-B42S) or (MATB50F-B55S), STAB52F and STAB57S.

In addition one full-course equivalent must be chosen from each of the following:

- MATC51F, MATC56S, MATC53Y, MATC60F, MATC65S
- STAC52F, STAC67S, CSCB68F, CSCB73F, CSCC34F
- MATB40F, MATB45S, MATB25Y, MATB70S, MATC44F, MATC49S, JMCC48S, JMCC31F, MATC54F.

The selection of optional courses should be made in consultation with the Supervisor.

In any given year, some C-level courses may not be offered. Students should check with the divisional office.

MATA22Y Calculus with Statistics / S. Halperin, P. Keast

Inequalities and absolute values. Functions limits. Derivatives. Exponential, logarithmic and trigonometric functions. Related rates. Extrema. Graph sketching. Newton's method. L'Hôpital's rule. Applications. Integrals as area. Indefinite and definite integrals. Techniques of integration. Numerical integration. Integrals as averages. An introduction to probability and statistics as an application of integration. Descriptive statistics. Probability. Probability functions and probability density functions. Expectations. Inference for the normal distribution.

MATA22Y introduces the basic techniques of the calculus and their standard application. The course structure is lectures and tutorials.

Exclusion: MATA26; MATA55

Prerequisite: One Grade 13 course in Mathematics

Session: Winter Day

MATA26Y Calculus / T. Callahan, J. McCool, E. Mendelsohn

Limits and continuity, derivatives, applications to related rates, extremum problems, graph sketching, Rolle's Theorem, Mean Value Theorem, indefinite and definite integrals, L'Hôpital's rule, Taylor approximation, Newton's method, numerical integration.

Students must have a calculator with memory and the exponential logarithmic and trigonometric functions and their inverses. MATA26Y introduces the basic techniques of calculus with a strong emphasis on methods of approximation. The course will develop these ideas by the investigation of specific examples. MATA26Y is a demanding course which will equip the student for most sciences and for further work in mathematics.

Exclusion: MATA22; MATA55

Prerequisite: Grade 13 Calculus

Session: Winter Day, Winter Evening, Summer Evening

MATA40F Introduction to Linear Algebra / T. Callahan, J. Wilker

Systems of linear equations and related matrix algebra. Vector spaces, subspaces, basis, dimension. Linear transformations: range and kernel, matrix representation. Geometry of R^2 and R^3 . MATA40F is designed for students who intend to pursue further studies in mathematics or science. There is a strong emphasis on the proofs of theorems as well as their applications. The course structure is lectures and tutorials.

Prerequisite: Grade 13 Functions and Relations or Grade 13 Algebra or Grade 13 Calculus.

Session: Winter Day

MATA45S Linear Algebra I / J. Wilker

Complex numbers and polynomials. The determinant and characteristic equation of a matrix. Eigenvectors and eigenvalues for linear transformations of \mathbb{R}^n and \mathbb{C}^n . Change of basis and canonical forms for orthogonal and unitary transformations. Diagonalization of quadratic forms. The course structure is lectures and tutorials.

Prerequisite: MATA40

Session: Winter Day

MATA55Y Calculus with Analysis / P. Leah

Numbers. Induction. Inequalities. Coordinates. Functions. Limits. Continuity. Uniform continuity. Derivatives and applications. Transcendental functions and applications. Techniques of Integration. Mean value theorems. Taylor's formula. L'Hôpital's rule. Sequences and series. Polar coordinates. Parametric representations and applications. Differential equations.

This course is designed for students who intend to pursue further studies in mathematics or science. There is a strong emphasis on rigour and proofs. The course will treat the concepts of the calculus, their logical relations, how to bring problems from other disciplines within this framework and how to solve them. The course structure is lectures, tutorials, assignments and tests. The method of evaluation is weekly homework assignments, three term tests (October, December and February) and a final examination.

Exclusion: MATA22; MATA26

Prerequisites: Grade 13 Functions and Relations; Grade 13 Calculus.

Session: Winter Day

MATB25Y Geometry / J. Wilker

Isometries in Euclidean plane and space. Similarities. Inversion in a circle. The inversive plane. Circle preserving transformations. Non-Euclidean geometry. Projective and affine geometry. Finite geometries. Free completions. Desargues's theorem and Pappus's theorem. Projectivities, homologies, elations. The fundamental theorem of projective geometry.

This course explores some facets of present-day geometric research. In addition, the interplay between geometry and algebra is emphasized. The course structure is three lectures per week.

Prerequisite: MATA45

Session: Winter Day

MATB40F Linear Algebra II / J. McCool

Dual spaces, linear functionals, the double dual; the transpose of a linear transformation. Polynomial algebras over a field; prime factorizations in $F[x]$, elementary divisors. The theory of a single linear transformation. Determinants. Cayley-Hamilton theorem, invariant subspaces, primary decomposition, rational canonical form, Jordan form. Introduction to bilinear forms and inner product spaces.

The course structure is three lectures per week.

Prerequisite: MATA45

Session: Winter Day

MATB41F Techniques of the Calculus of Several Variables I / J.S. Halperin

Systems of linear equations. Lines and planes in \mathbb{R}^3 . Elementary vector and matrix algebra. Functions of several variables. Contour maps. Partial derivatives and partial integrals. Tangent planes and linear approximations. Vector fields in \mathbb{R}^n . Gradient, divergence and curl. Double and triple integrals. Spherical and cylindrical polar coordinates. Divergence theorem for the cube. The course structure is lectures and tutorials.

Exclusion: MATB50

Prerequisites: MATA26 or MATA55

Session: Winter Day

MATB42S Techniques of the Calculus of Several Variables II / J.S. Halperin

Parametric representation of curves. Line integrals. Parametric representation of surfaces. Surface integrals. Divergence, Stokes' and Gauss' theorems. Sequences and series of numbers and functions. Taylor series in one and several variables. Fourier series.

Extremal problems in functions of several variables. Critical points. Lagrange multipliers. Calculus of variations. The course structure is lectures and tutorials.

Exclusions: MATB50, MATB55

Prerequisite: MATB41

Session: Winter Day

MATB45S Linear Algebra III / J. McCool

Inner product spaces, bilinear forms, Sylvester's Law. Topics chosen from orthogonal and symplectic geometry, Witt's Theorem, convex sets, localization of eigenvalues, game theory, integer and (0,1) matrices, matrix inequalities, tensor products, and exterior algebra.

The course structure is three lectures per week.

Prerequisite: MATB40

Session: Winter Day

MATB50F Analysis / R.W. Sharpe

Partial derivatives. Implicit differentiation. Extrema of functions with side conditions. Series of functions. Uniform convergence. Limit and derivative under the integral sign. Multiplication, differentiation and integration of series. Power series. The calculus of vector functions.

The course structure is three lectures per week.

Exclusion: MATB41; MATB42

Prerequisite: MATA45; MATA55

Session: Winter Day

JMPB50F Symbolic Logic / A. Gombay

An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.

An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, quantification theory, or predicate logic and elements of probability theory. The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed. But the emphasis is on techniques.

D. Kalish and R. Montague, *Logic: Techniques of Formal Reasoning (for deductive techniques only)*.

Session: Winter Day

MATB55S Analysis II / R.W. Sharpe

The topology of the n -dimensional Euclidean space. Multiple integrals and transformation of variables. Integration of n -forms. Exterior calculus. Line integrals, winding number, Green's theorem. Surface integrals and Stokes' theorem. (Mathematical rigour is emphasized.)

The course structure is three lectures per week.

Exclusion: MATB41; MATB42

Prerequisite: MATB50

Session: Winter Day

MATB70S Introduction to Number Theory / T. Callahan

Some elementary properties of integers. Prime numbers. Congruences. Diophantine equations. Quadratic residues. Rational approximation.

MATB70S will be an exploratory course. The material to be studied will be chosen on its own merit, not for its future usefulness. Number theory is one of the oldest and most beautiful branches of pure mathematics and this course should provide an idea of why it has fascinated mathematicians for so long. It is not intended to be a difficult course but enthusiasm and hard work will be essential. The course structure is three lectures per week.

Prerequisite: MATA45

Session: Winter Day

JPMC42S Advanced Classical Mechanics

Dynamics of particles and rigid bodies. Variational principle. Lagrangian and Hamiltonian formulation of mechanics. Canonical transformations. Hamilton Jacobi theory. Small oscillations.

Exclusions: (PHYB46, MATB46, PHYC42, MATC42)

Prerequisites: PHYA02 or PHYA03 (or PHYA01); MATC41

Session: Winter Day

MATC44F Algebraic Structures I / E.W. Ellers

An introduction to group theory and algebra. Groups, their homomorphisms and structure. Representation of groups by permutation groups. Isomorphism theorems and some of their implications. Sylow theorems. A similar study of rings and fields.

The course structure is three lectures per week.

Prerequisite: MATA45 and one other B-level Mathematics course

Session: Winter Day

MATC49S Algebraic Structures II / E.W. Ellers

The study of rings, Euclidean domains and polynomial rings. The fundamental structure of fields. A survey of extension fields, finite fields and algebraic closures. The fundamental theorem of Galois Theory. The problem of construction of a regular n -gon, and the trisection of an angle. The structure of finite division rings and of division rings over the real numbers.

The course structure is three lectures per week.

Prerequisite: MATC44

Session: Winter Day

MATC51F Differential Equations I / I. Kupka

Equations with separable variables. Homogeneous equations. First order linear equations. Exact differentials and integrating factors. Equation of Bernoulli. Clairaut equation. Reducible second order equations. First order equations of higher degree in algebraic form. Envelopes. Orthogonal trajectories. The laws of Kepler and Newton. Second order linear equations with constant coefficients and Euler's equations. General second order linear equations. Wronskian. Variation of parameters. Boundary and initial value problems. Green's function. Adjoint operators. Power series solutions of second order equations.

Prerequisites: MATB42/MATB50 (or MATB50 may be taken concurrently with MATC51)

Session: Winter Day

JMCC51S Numerical Methods

Numerical methods and their implementation on a computer. Solution of linear and non-linear equations. Ill conditioned problems and error estimates. Numerical integration and solution of initial value problems for ordinary differential equations.

This course is an introduction to the numerical solution of several types of mathematical problems. The emphasis will be on the analysis of a few reliable methods and on their comparison, for each class of problem. All the algorithms that will be used are available in a software library, so that programing will be restricted to the writing of short driving and linking programmes.

Eight or nine assignments will be given, and a short mid-term examination will be set. There will be a final examination.

The language of the packaged programmes is FORTRAN, for which a brief review will be given.

Exclusion: (MATB53)

Prerequisites: MATA40, MATB42 or MATB55, CSCA68

Session: Winter Day

JMPC51S Symbolic Logic II / J.H. Sobel

A continuation of JMPB50F.

In the first and longest part of the course the natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The emphasis in this first part of the course is on techniques.

The second part of the course covers the meta-theory of standard elementary logic with emphasis on completeness proofs for sentential and predicate logic and on the "limitative theorem" due to Skolem, Godel and Church. The object in this part of the course is theoretical, not practical.

There will be three tests during the term and a final examination. The texts are D. Kalish and R. Montague, *Logic: Techniques of Formal Reasoning*; Geoffrey Hunter, *Metalogic: An Introduction to the Metatheory of Standard First-Order Logic*.

Prerequisite: JMPB50 or PHLB50 or MATB80

Session: Winter Day

MATC53Y Real Analysis

Algebra of sets. Mappings. Schroeder-Bernstein theorem. Axiom of choice. Metric spaces. Compactness. Completeness. Separability. Baire's theorem. Arzela-Ascoli theorem. Hausdorff spaces. Local compactness. Tychonov's theorem. Lebesgue integral in \mathbb{R} and \mathbb{R}^k Borel sets. Measurable sets. Lebesgue bounded convergence theorem. Fubini theorem. Hilbert and Banach spaces. Dual spaces. Linear mappings. Hahn-Banach theorem. Closed graph theorem. Applications to L^2 and L^p . Compact operators, Fredholm operators. Fredholm alternative. Spectral theory of compact operators. Applications to integral equations and to the Dirichlet problem.

Exclusion: MATC50, MATC55

Prerequisites: MATB40, MATB55

Session: Winter Day

MATC54F Differential Geometry I / I. Kupka

Summary of differentials, inverse and implicit function theorems and their geometrical interpretation. Parametric curves and surfaces in \mathbb{R}^3 , singular points, tangent lines, tangent planes. Global definition of curves and surfaces in \mathbb{R}^3 . Manifolds. Tangent and normal structures. Regular and critical values of smooth maps. Pre-images. Transversality. Images of smooth maps. Vector fields. Integral curves. Exterior differential of one and two-forms. Theorems of Gauss and Green.

Prerequisites: MATA45 and MATB42 or MATB55

Corequisite: MATC51

Session: Winter Day

MATC56S Differential Equations II / I. Kupka

Metric Spaces. Banach's fixed point theorem. Lipschitz condition. Existence and uniqueness of solutions. Global qualitative analysis of solutions. Higher order linear equations. Formula of Abel-Jacobi-Liouville. First order linear systems. Fundamental matrix. Jordan normal form. Boundary and initial value problems. Green's matrix. Introduction to calculus of variations or to dynamical systems.

Prerequisites: MATB51 or MATC51F

Session: Winter Day

MATC60F Complex Analysis I / P. Leah

Complex arithmetic. Polynomials and elementary functions. Differentiation and the Cauchy Riemann equations. Cauchy's integral formula for differentiable functions and their Taylor expansion. Properties of analytic functions including Liouville's theorem, identity theorem, maximum modulus theorem and open mapping theorem. Laurent expansion and classification of isolated singularities. Residue calculus.

The course structure is three lectures per week.

Prerequisites: MATB55 or MATB42S

Session: Winter Day

MATC65S Complex Analysis II / P. Leah

Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Lorentz group. Solution to the Dirichlet problem by conformal mapping and the Poisson kernel. The Riemann mapping theorem. The prime number theorem.

The course structure is three lectures per week.

Prerequisite: MATC60

Session: Winter Day

STAB52F Probability and Statistics I / M. Evans

An introduction to probability theory. The probability model. Presentations of probability. Marginal probability. Statistical independence. Conditional probability. Mean value. Weak Law of Large Numbers and the Central Limit Theorem. Theory and applications.

The course structure is lectures and tutorials.

Prerequisite: MATA26 or MATA55

Session: Winter Day

STAB57S Probability and Statistics II / M. Evans

An introduction to statistics. The statistical model. Large sample methods. Distribution-free methods. The likelihood function. Estimation. Testing hypotheses. Linear models. Design of experiments. Theory and applications.

The course structure is lectures and tutorials.

Exclusions: PSYB07, ECOB11

Prerequisite: STAB52 (MATB52)

Session: Winter Day

STAC52F Experimental Design / M. Evans

The statistical aspects of collecting and analyzing experimental data. Complete randomization and restricted randomization schemes. Factorial designs.

The course structure is three lectures per week.

Exclusion: PSYB08

Prerequisites: STAB57 (MATB57)

Session: Winter Day

STAC67S Regression Analysis / M. Evans

The statistical analysis of linear models. Transformations. The analysis of covariance. Bioassay. Computational procedures.

Prerequisite: STAB57 (MATB57)

Session: Winter Day

COURSES NOT OFFERED in 1980-81**MATA25S Thinking Mathematically**

Prerequisite: One Grade 13 course in Mathematics or permission of instructor

MATC32S Advanced Topics in Mathematics

Prerequisites: MATA45 and MATB42 or MATB55

JMCC31F Combinatorics

Prerequisites: MATB40 and at least one other B level course in Mathematics or Computer Science

COURSES NOT OFFERED in 1981-82**STAC52F Experimental Design**

Prerequisite: STAB57

MATC54F Differential Geometry I

Prerequisite: MATA45 and MATB42 or MATB55

MATC65S Complex Analysis II

Prerequisite: MATC60

MEDIEVAL CIVILIZATION

The courses in these Programmes encompass the breadth of European and Mediterranean culture running from the late Roman Period and culminating, in the West, in the Renaissance of the fifteenth century.

Specialist Programme in Medieval Civilization

Supervisor: M. Gervers

Students will be expected to complete ten full-course equivalents from the following areas:

- (1) The Arts (Fine Art, Archaeology, Drama and Music)
- (2) History
- (3) Language and Literature
- (4) Philosophy and Religion

Students are to select three full-course equivalents each from three of the four areas, and one from the remaining area. HISB06Y is required of all participants. Two of the ten full-course equivalents must be C-level seminars or C-level reading courses requiring major research papers. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.

Arts

ANTB27Y*	Archaeological Methods and Materials
DRAB03Y	The History of Theatre I
DRAB12B	Medieval and Early Tudor Drama. The Texts and their Production
FARA11S	Medieval Art
FARB01F/S	Romanesque Art
FARB10F	Carolingian and Romanesque Art
FARB11F	The Arts in Northern Europe ca. 1400-1500
FARB25F/S	High Gothic Architecture
MUSB04F/S	Music of the Renaissance

History

ANTB41S*	Pre-Industrial Technology
GERB33S*	History of German
GRHB03Y	Roman History from the Gracchi to Nero

HISB06Y

Europe in the Middle Ages

HISB07Y

Russia from the Thirteenth Century to the Present

HISB61Y*

The Beginnings of France: Constantine to Charlemagne

HISC20F/S*

Anglo-Saxon England

HISC62Y*

The Crusades

Language and Literature

ENGB01Y	Old English Language and Literature
ENGB02Y	Chaucer
ENGB12Y*	English Drama to 1642
ENGC01Y*	Advanced Studies in Beowulf and other Old English Poetry
ENGC03Y*	Studies in Middle English Language and Literature
FREB42F*	General History of the French Language
FREC22Y*	Introduction to Medieval French Language and Literature
GERB33S*	History of German
GERB53F*	German Literature before 1775
GERC23F*	Introduction to Middle High German
HUMC01F/S*	Lyric Poetry of the Middle Ages in the Mediterranean Area
ITAB31Y*	Dante and Medieval Culture
ITAB32F*	Petrarch and Boccaccio
LATA01Y	Introductory Latin
LATB30F*	
LATB33F*	
LATB35S*	
LATB39S*	
LATB40Y*	Supervised Reading
SPAB12S*	History of the Spanish Language
SPAB35F/S*	Medieval Literature: Prose
SPAB36F*	Medieval Poetry

Philosophy and Religion

CLAB21Y*	Greek and Roman Religion
CLAB23F/S	Christianity in the Greco-Roman World
HUMB20Y*	Primitive Christian Literature and Myth
HUMB33Y	World Visions from the Late Middle Ages to the Renaissance
HUMC20Y*	Jesus in Early Christianity and Judaism
HUMC22S*	John: Gospel and Letters
PHLB40F	Plato and His Predecessors I
PHLB41S	Plato and His Predecessors II
PHLB42F	Aristotle and Later Greek Philosophy I
PHLB43S	Aristotle and Later Greek Philosophy II
PHLB44F	Philosophers of the Middle Ages I
PHLB45S	Philosophers of the Middle Ages II
PHLB61F/S	Philosophy of Religion
PHLC88S*	Seminar in Philosophy: St. Augustine's Philosophic Dialogues

* Students should check these courses for prerequisites.

Major Programme in Medieval Civilization

Supervisor: M. Gervers

Students will be expected to complete seven full-course equivalents from the following four areas:

- (1) The Arts (Fine Art, Archaeology, Drama and Music)
- (2) History
- (3) Language and Literature
- (4) Philosophy and Religion

Students are to select two full-course equivalents each from three of the four areas, and one from the remaining area. HISB06Y is required of all participants. One of the seven full-course equivalents must be a C-level seminar or C-level reading course requiring a major research paper. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.

MODERN LANGUAGES

Specialist Programme

Supervisor: G. Trembley

The Modern Languages Specialist Programme enables a student to gain a high degree of fluency in two languages, or in one language together with a concentration in Linguistics. In the case of every combination, there is a common core for the programme consisting of LINA01Y, General Linguistics, and a choice from a set of courses which relate languages to broader social and historical or cultural areas. There are ten possible combinations as follows: French and German, French and Italian, French and Spanish, German and Italian, German and Spanish, Italian and Spanish, French and Linguistics, German and Linguistics, Italian and Linguistics, Spanish and Linguistics.

For every combination, students must satisfy the following requirements:

- (1) The courses listed under the Major Programmes in two of: French, German, Italian, Linguistics, Spanish.
- (2) One full-course equivalent from the following:

ANTA01Y	Introduction to Anthropology
ANTB30Y	Language and Culture
HISA01Y	European World
HUMA01Y	Prologue

N.B. (Although there is no Russian Language Major Programme, students may combine the Russian Language and Literature Major or the Russian and Related Studies College Programme with any of the above mentioned Language Programmes).

MUSIC

Discipline Representative: T.J. McGee

Music is one of the liberal arts. The courses at Scarborough emphasise a humanistic approach to the subject and stress the relationship of Music to other subjects such as Fine Arts, Drama, History, Languages and Literatures and Philosophy. Individual musical works are studied from two broad points of view, the critical and the historical. The first approach examines the single composition and attempts to understand, explain and illuminate our experience of it; the second approach sees the particular work as an example of larger stylistic tendencies and tries to explain these in a historical context. Both approaches rely on the sensitivity of the listener and his ability to communicate. Much of the course work, therefore, is directed towards improving the student's aural awareness and his ability to think and write clearly about all types of music.

All students are encouraged to take advantage of the various opportunities which exist in the College for practical music making.

Major Programme in Music

Supervisor: T.J. McGee

Students are required to complete a total of six full-course equivalents in Music and related areas. The six courses will be made up as follows:

- (1)

MUSA01Y	Introduction to Music
MUSB17F/S	Materials of Music I
- (2) Two full-course equivalents from:

MUSB04F/S	Music of the Renaissance
MUSB05F/S	Music of the Baroque Era
MUSB02F/S	Classical Music
MUSB06F/S	Music of the Romantic Period
MUSB01F/S	Music of the Twentieth Century (also available on St. George campus as MUS201H, when not offered at the College.)
- (3) One and one half full-course equivalents chosen from MUS courses
To satisfy the requirements of this section, students may substitute, in consultation with the Supervisor one or more of the MUS courses offered on the St. George campus (but see above p. 24, i.e. information on limitation of courses).

- (4) One additional full-course equivalent in Music or another relevant discipline. The following courses are recommended: PHLB03F Philosophy and Art, FARB23 Early Renaissance in Florence, HUMB50S Machiavelli and Aspects of the Italian Renaissance, GERB25Y German Civilization and Culture, DRAB03Y The History of Theatre I.

MUSA01Y Introduction to Music / T.J. McGee

A study of the basic materials, principles of design, and cultural significance of representative works of Western and non-Western music, including popular music from the Middle Ages to the present. No musical training is required.

A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction, style characteristics, and in relationship to trends in art and society. The evolutionary aspects of the various period styles are emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week. Evaluation will be on the basis of tests and term assignments (2/3) and a final examination (1/3).

Session: Winter Day

MUSB01S Music of the Twentieth Century / T.J. McGee

Tracing the various trends of music in the present century from Debussy to the most recent electronic and multi-media presentations. Concentration will be on particularly influential composers. The influence of jazz will also be considered.

Selected compositions of Debussy, Schoenberg and Stravinsky are analysed in detail to demonstrate the nature of the revolution which took place in music during the early years of the century. The course continues with a survey of the most significant composers and techniques of the succeeding seventy years. Topics to be discussed include the continuing commitment of some composers to tonality; developments in twelve-tone serialism; the influence of jazz; electronic music; the emergence of new aesthetic attitudes. There will be two lecture hours per week. Evaluation is based on an exam (1/3), listening or other short assignments (1/3), and a term paper (1/3).

Prerequisite: MUSA01

Session: Winter Day

MUSB02F Music of the Classic Period / T.J. McGee

A study of music from the late eighteenth and early nineteenth centuries with emphasis on the works of Haydn, Mozart and Beethoven.

An examination of the origins of the Viennese classical style will be followed by a study of representative works by the three major composers of the classic period. The works will be studied in the context of the political, social and artistic changes which took place in Europe at this time. There will be two lecture hours per week. Evaluation will be on the basis of an exam (1/3), tests or class presentation (1/3) and a term paper (1/3).

Prerequisite: MUSA01

Session: Winter Day

MUSB09H Supervised Performance I / C. Walter, J. Mayo

The study and performance of either vocal or instrumental music, supervised by a member of the faculty.

The practical study of a wide variety of music literature leading to public performance within the College. Instrumental students work in small ensembles arranged to suit the abilities of individual performers. Vocal students work in the Scarborough College Chorus or in small vocal ensembles. Previous experience is necessary for instrumental students, but not for vocal students. There will be two hours of group instruction per week. The formation of groups and the arrangement of times will take place during the first week of the fall term. (Please consult with music staff in S356). Evaluation is based on class participation and at least two recorded or public performances. The grade assigned will be Honours/Pass/Fail.

Corequisite: MUSA01

Session: Winter Day

MUSB10H Supervised Performance II / C. Walter, J. Mayo

A continuation of MUSB09H.

For further information see MUSB09. The grade assigned will be Honours/Pass/Fail.

Prerequisite: MUSB09

Session: Winter Day

MUSB11F Music for the Theatre / J. Mayo

Music for the Theatre from the Renaissance to the present day.

A study of the great variety of ways in which music and drama have been combined. Subjects for discussion will include incidental music for spoken drama; music for the dance and the development of the symphonic ballet; opera and its particular dramatic problems and possibilities; music and film; modern multi-media experiments. There will be two hours per week of lecture and classroom discussion. Evaluation will be based on an exam (1/3), class presentation or other assignment (1/3), and a term paper (1/3).

Prerequisite: MUSA01 or permission of instructor

Session: Winter Day

MUSB17H Materials of Music I / J. Mayo

The basic materials of music from the seventeenth to the nineteenth century.

A study of elementary harmony and musical forms designed to equip the student with simple analytical and compositional techniques. Aural aspects of the subject will be emphasized providing a secure foundation for the development of the student's "inner ear" -- that is, the ability to hear mentally what is written and to write down what the inner ear perceives. Two hours of lecture/practical sessions per week. Evaluation will be based on a final exam (1/3) and regular written and aural assignments (2/3).

Prerequisite: MUSA01

Session: Winter Day

COURSES NOT OFFERED in 1980-81

MUSB04F Music of the Renaissance

MUSB05S Music of the Baroque Era

MUSB06S Music of the Romantic Period

Prerequisite: MUSA01 or (MUSB08)

MUSB07S The Symphony

Prerequisite: MUSA01 or (MUSB08)

MUSB12S Stravinsky

MUSB13S Bach

MUSB14S Jazz

MUSB15F Music in Elizabethan England

Prerequisite: MUSA01 or permission of instructor.

MUSB16B Music in Canada

MYTH AND RELIGION

Supervisor: M.E. Irwin

This Programme combines an examination of man's perception and experience of his religious and mythic heritage and institutions from the anthropological, historical, philosophical, sociological and literary points of view.

College Programme in Myth and Religion

Supervisor: M.E. Irwin

Nine full-course equivalents to be completed as follows:

- | | | |
|-----|---------|--|
| (1) | HUMA01Y | Prologue |
| (2) | HUMA10Y | Introduction to the Study of Religion |
| | or | |
| | HUMA11Y | Greek and Roman Mythology |
| (3) | PHLA01Y | Fundamental Questions of Philosophy |
| (4) | ANTA01Y | Introduction to Anthropology |
| | or | |
| | SOCA01Y | Introduction to Sociology |
| | or | |
| | HISA01Y | The European World: An Introduction to History |

- | | | |
|-----|--|---|
| (5) | ANTB23Y | Comparative Mythology |
| | or | |
| | HUMB28Y | Major Religious Traditions, East and West |
| | or | |
| | HUMB20Y | Primitive Christian Literature & Myth |
| (6) | HUMC10H* | Humanities Seminar |
| (7) | and three and one-half further full-course equivalents drawn from (2), (4) and (5) above and from the following: | |
| | ANTB02F/S* | Anthropological Study of Religion |
| | ANTC02F/S* | Systems of Thought |
| | CLAB02Y | Greek and Roman Tragedy |
| | CLAB21Y | Greek and Roman Religion |
| | CLAB23F/S | Christianity in the Greco-Roman World |
| | HISB06Y | Europe in the Middle Ages |
| | HISB13Y* | Europe in the Reformation Era |
| | HISB44F/S* | Canadian Religious Traditions |
| | HISB61Y* | The Beginnings of France |
| | HISC14Y* | The European Mentality |
| | HISC43F/S* | Selected Topics in Canadian Religious History |
| | HISC62Y* | The Crusades |
| | HUMB35F/S | The Ulysses Factor |
| | PHLB44F | Philosophers of the Middle Ages I |
| | PHLB45S | Philosophers of the Middle Ages II |
| | PHLB61F/S | Philosophy of Religion |
| | SOCB03Y* | History of Social Thought |
| | SOCC20F/S* | Sociology of Religion |

* Students should check these courses for prerequisites.

NATURAL SCIENCE

Sciences for the citizen.

What is a quasar? How many defective genes am I carrying? How many dollars should Canada spend in support of nuclear fusion research? What is a laser? Why didn't the Green Revolution work? Such questions about the late twentieth century view of the universe in which we live, about the complex technology which affects our present lives and changes public issues are difficult to answer without some knowledge of the methods and concepts of the natural sciences. The courses listed below may help those students whose primary interests are in the humanities or social sciences and who may lack high school science or mathematics to come into touch with contemporary science.

NSCA01Y Introduction to Natural Science: The Physical Sciences / H. Corben, T. Callahan

This course provides an introduction to the physical sciences for those who are not primarily science students. Several different areas will be examined from an historical viewpoint. Above all else this course will emphasize the nature of science, the distinctive method of analysis and attitude to conjecture which characterize science.

Exclusions: PHYA01/PHYA02 or PHYA03

Session: Winter Day

Students should also refer to the following courses:

- | | |
|---------|--|
| ASTA03Y | A Survey of Astronomy, its Recent Development and Significance |
| GLGA02S | Geology and Land Use Planning |
| HUMC11Y | The Darwinian Revolution |
| MATA25S | Thinking Mathematically (not offered 1980-81) |
| PHLB70F | Philosophy of Science |
| PHLB87S | Contemporary Philosophical Issues: Biomedical Ethics |
| SOCB11Y | Sociology of Science |

COURSES NOT OFFERED in 1980-81

NSCA02Y Introduction to Natural Science: The Biological Sciences

Exclusion: Not open to students who are taking or have taken BIOA03

For (NSCA03Y) QUAA03Y and (NSCB02Y) QUAB02Y see Quaternary Studies

PHILOSOPHY

Discipline Representative: A. Gombay

Philosophy consists of a critical analysis of the ideas and concepts fundamental to such major areas of human concern as science, society, religion, morality and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live. Philosophy originates in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

Course offerings in Philosophy form a two year cycle: those not offered in one academic year will normally be available in the following year while PHLA01, PHLB01, PHLB20, JMPB50 and PHLB60 are offered every year. It should be noted that in almost all subject areas Fall/Spring sequences are offered which when combined provide the equivalent of a full course at the B-level. These sequences are usually scheduled in the same time slot. The B-series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty.

Further information about Philosophy may be obtained from the Discipline Representative.

Specialist Programme in Philosophy

Supervisor: A. Gombay

Students must complete at least eleven and a half full-course equivalents including:

- (1) PHLA01Y Fundamental Questions of Philosophy
PHLB01F Morality and Values
PHLB20F/S Belief, Knowledge and Truth
JMPB50F Symbolic Logic
PHLB60F/S Existence and Reality
- (2) Four half-courses from PHLB40F to PHLB49S
- (3) Three half-courses in C-level Philosophy courses
- (4) Six additional half-courses in Philosophy
- (5) Two full-course equivalents from cognate courses in other disciplines agreed upon in consultation with the Supervisor.

Cognate Courses

Philosophy students should seriously consider the advantages of studying a foreign language, especially French, German, Greek or Latin. Two full-course equivalents in a foreign language will give students access to much philosophical thought in its original language and to many secondary sources not available in English.

There is a variety of courses in Classics, English, Fine Art, History and Humanities which will help to supplement the Programmes of many students. In particular, students should consider the following courses: HUMA01Y, Prologue; HISA01Y, European World; ASTA03Y, Survey of Astronomy; NSCA01Y, Introduction to Physical Sciences; NSCA03Y, Introduction to Biological Sciences; as courses which provide important intellectual and historical background for the study of Philosophy.

Major Programme in Philosophy

Supervisor: A. Gombay

Students must complete at least six full-course equivalents in Philosophy including:

- (1) PHLA01Y Fundamental Questions of Philosophy
- (2) Two of the following half courses:
PHLB01F Morality and Values
PHLB20F/S Belief, Knowledge and Truth
JMPB50F Symbolic Logic
PHLB60F/S Existence and Reality
- (3) Two half courses from PHLB40F to PHLB49S
- (4) Two half courses in C-level PHL courses
- (5) Four additional half courses in Philosophy

N.B. In certain cases students combining a Major Programme in Philosophy with a Programme in another discipline may elect to modify the Major Programme. Students electing one of these modifications must have the approval of the Supervisor.

The Major Programme may be modified as follows:

- (a) Students in Social Sciences (ANT, COM, ECO, GGR, POL, SOC) should complete (1), (2), and (3) as above; three half courses from: PHLB05F, PHLB10F/S, PHLB11F/S, PHLB12F, PHLB14F/S, PHLB16F/S, PHLB17S; one half course in C-level PHL courses, and two additional half courses in Philosophy.
- (b) Students in the Arts (DRA, FAR, MUS) should complete (1), (2), (3), and (4) as above, PHLB03F/S, and three additional half courses in Philosophy. (At least one of the C-level courses should be an independent study course related to the student's area of concentration in the Arts).
- (c) Students in Psychology should complete (3) and (4) as above, three half courses from (2), PHLB05F/S, PHLB70F/S, PHLB81F/S, and two additional courses in Philosophy. (At least one C-level course should be related to Problems Psychology).
- (d) Students in Natural Sciences (AST, BIO, CHM, CSC, GLG, MAT, PHY) should complete (3) and (4) as above, three half courses from (2), PHLB05, PHLB70 or PHLB71, PHLC71, and two additional half courses in Philosophy.

PHLA01Y: L01 Fundamental Questions of Philosophy / A. Gombay and R.P. Thompson

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

In 1980-81 the following topics will be discussed: the basis of morality, the relationship of thought to reality, the nature of space and time, causality, determinism, and the existence of God. Texts: Plato, *Republic*; Hick, J., *The Philosophy of Religion*; Berofsky, B., *Free Will and Determinism*. Three hours of lectures per week.

Session: Winter Day

PHLA01Y: L02 Fundamental Questions of Philosophy / J. Hartley

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

This course will approach some of the above problems by concentrating on the question: what does it mean to be a human being or person? Although the question is theoretical, the answer to it has important practical (ethical) consequences. We shall explore this question with the help both of philosophers within the Western tradition (e.g. Aristotle, Thomas Aquinas, Descartes, Hume, J.-P. Sartre) and of psychologists (e.g. Freud, Skinner, Frankl). Evaluation will be based on book reports, in-class tests, and one paper. The texts will be Mariann Kinget, *On Being Human*; Mortimer Adler, *The Difference of Man and the Difference It makes*; Jerome Shaffer, *The Philosophy of Mind*.

Session: Winter Day

PHLA01Y: L03 Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

Session: Winter Day

PHLA01Y: L30 Fundamental Questions of Philosophy / J.H. Sobel

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

An introduction to philosophy, consisting of consideration of topics drawn from the major divisions of the subject: metaphysics, theory of knowledge, philosophy of religion, ethics and logic.

The aim of the course is to convey an idea of philosophy, its nature and variety, by doing some and by seeing some done by great philosophers.

Reading material for the course is about evenly divided between works of great philosophers of the past, including Anselm, Aquinas, Descartes, Berkeley, Hume and Leibniz, and works of recent and contemporary philosophers. Evaluation to be announced later.

Session: Winter Evening

PHLB01F Morality and Values

A study of philosophical problems and postures in ethics, such as the relativity of values, the justification of morality, moral scepticism, ethical egoism, utilitarianism, deontology. Further information will be available later in Room H525A.

Session: Winter Evening

PHLB05F Social Issues / R.P. Thompson

An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations (homosexuality, adultery etc.), eugenics, ecology, civil disobedience, policies towards the Third World, and towards the poor.

In 1980 the course will examine the moral issues involved in consideration of: human sexual relations, abortion, world hunger, discrimination, and capital punishment. Evaluation will be based on an essay and an examination.

Session: Winter Day

PHLB11F Philosophy of Law / A. Gombay

What is the relation between law and morality and between law and custom? What is justice? How are concepts such as responsibility, intention and negligence treated in the law? What is legal reasoning like?

The course has two parts. The first examines the notion of *legal responsibility* and attendant concepts (intention, foresight, negligence, recklessness, insanity); how are these treated in the law? The second part examines the notion of *legality*: what is required for the existence of a legal system? Reading: Feinberg and Gross, *Philosophy of Law*.

Session: Winter Day

PHLB20F Belief, Knowledge and Truth / J. Hartley

An examination of such questions as certainty, the problem of scepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.

Epistemology as a distinctive branch of philosophy emerged at the beginning of Modern Philosophy and represents, at least in its beginnings, philosophy's critical self-scrutiny. Philosophers were puzzled by the conflicting and sometimes contradictory knowledge-claims made by different philosophies and began to wonder whether and how these claims could be justified. So Epistemology asks about the existence, nature, extent and limits of knowledge. It seeks to discover the bounds of sense, of meaningful discourse, of truth. For example, can we know and speak meaningfully about the world in its totality (is it finite or infinite in extent or duration?), freedom of the will, the immortality of the soul, the existence and nature of God?

The course is taught largely through lectures. Evaluation is based on a final exam and one major essay or two short essays.

Session: Winter Day

PHLB30S Existentialism / J. Hartley

A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Jaspers, Heidegger and Sartre.

The course has four main objectives: (1) to familiarize students with the work of some of the leading "existentialist" thinkers, including Kierkegaard, Nietzsche, Heidegger, Sartre and Marcel; (2) to integrate existentialist thought by focussing upon the development of some common themes; (3) to understand such thinking in its proper context, as a critical response to aspects of the philosophical tradition; (4) to emphasize its particular relevance to the quest for authentic self-identity and a sense of existence. Included among the readings are: Nietzsche, *The Gay Science*; Sartre, *Existentialism is a Humanism*; Heidegger, *Being and Time* (selections). The course is taught through lectures and seminars. Evaluation is based on essays (one major or two short), two short reports on required readings, and a final exam.

Session: Winter Day

PHLB40F Plato and his Predecessors I / P.W. Gooch

A study of the origins of philosophy in Greece and the views of the earliest philosophers regarding the nature of the world. A consideration of the main aspects of the philosophy of Plato.

The course will examine central themes in Plato's presentation of Socrates: the Socratic method, the paradoxes about virtue and knowledge, civil disobedience, the possibility of teaching goodness, the possibility of surviving death. For Socrates, philosophy is not a set of doctrines so much as a way of life: "the unexamined life is not worth living". The dialogues to be read include the *Apology*, *Crito*, *Euthyphro*, *Protagoras*, *Meno*, *Gorgias*, *Phaedo*. A convenient edition is *Plato: Collected Dialogues* (Pantheon). Evaluation is based on a brief analytic exercise, an essay, and an examination.

Session: Winter Day

PHLB41S Plato and his Predecessors II / P.W. Gooch

A continuation of PHLB40.

The course will work through major themes in Plato's *Republic* and develop those themes through other works of Plato. For instance: Plato's theory of knowledge in the *Theaetetus*; his understanding of the relation between knowledge and love in the *Symposium* and *Phaedrus*; and issues in Plato's psychology and ethics in some passages selected from other dialogues. The text will be *Plato: Collected Dialogues* (Pantheon). Evaluation is based on a seminar presentation, an essay, and an examination.

Prerequisite: PHLB40

Session: Winter Day

PHLB48F Philosophy in the Later Modern Age I / A. Gombay

A study of the doctrines of philosophers in the so-called analytic tradition, at the turn of the century: Frege, Russell, Wittgenstein, Moore. These doctrines are about mind, language and reality. Readings: Frege, *Philosophical Writings*; Russell, *Logic and Knowledge*; Wittgenstein, *Tractatus Logico-Philosophicus*; Moore, *Philosophical Papers*.

Session: Winter Day

PHLB49S Philosophy in the Later Modern Age II / A. Gombay

A study of the doctrines of some contemporary philosophers in the analytic tradition: Wittgenstein, Popper, Quine, Davidson. These doctrines are about mind, language and reality. Readings: Wittgenstein, *Philosophical Investigations*; Popper, *Objective Knowledge*; Quine, *From a Logical Point of View*.

Session: Winter Day

JMPB50F Symbolic Logic / A. Gombay

An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.

An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, quantification theory, or predicate logic and elements of probability theory. The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed. But the emphasis is on techniques.

D. Kalish and R. Montague, *Logic: Techniques of Formal Reasoning (for deductive techniques only)*.

Session: Winter Day

PHLB60S Existence and Reality / J. Hartley, R.P. Thompson

In perceiving, categorising and classifying reality, certain very basic concepts are employed. The course will consider problems in metaphysics arising in connection with one or more of these concepts: existence, being, space, time, identity, causality, mind and value.

Once known as queen of the sciences, metaphysics - at least in its traditional regalia - has been, if not dethroned, at least under heavy attack since the time of David Hume and Immanuel Kant. In this course we shall examine some of the philosophical criticisms of metaphysics, and study the texts of some metaphysicians - e.g. the *Metaphysics* of Aristotle, *On Being and Essence* of Thomas Aquinas, *Meditations* of Descartes. For summer session the topic to be discussed is space and time.

Session: Winter Day, Summer Evening

PHLB61S Philosophy of Religion

A study of such topics as the nature and existence of God, immortality, God and morality, and religious language and symbolism. Further information will be available later in Room H525A.

Session: Winter Evening

PHLB70F Philosophy of Science / R.P. Thompson

A study of philosophical questions raised by the Natural Sciences.

The course examines the logical structure of explanation, law and theory in the Natural Sciences, and the role of concepts in one's understanding of the world. There will be a short mid-term paper, an essay and an exam.

Exclusion: PHLB71

Prerequisite: One course or half-course in Philosophy or in the Division of Science.

Session: Winter Day

PHLB71F Philosophy of Biology / R.P. Thompson

An examination of the conceptual and logical aspects of explanation, theory, and model construction in Biology.

In 1980-81 the following topics will be covered: the concept of cause and its role in causal explanation, conceptual and logical aspects of testing causal hypotheses in biology, the logical structure of scientific theories (with special emphasis on the theory of evolution), the Kuhnian concept of paradigms in science, and the role of models in biology. Evaluation is based on a mid-term paper, an essay, and an examination. Two hours per week of lecture/discussion.

Exclusion: PHLB70

Prerequisite: BIOA03

Session: Winter Day

PHLB81F Theories of Mind / J. Hartley

An examination of the philosophical presuppositions of psychological theories such as those of Freud and Jung, Behaviourism and Existential Psychology. Problems such as the relation of mind and body, conscious and unconscious, the meaning of mentalistic concepts and the analysis of dreaming will be studied.

The meaning of the word mind underwent an evolution as it wended its way from medieval philosophy through Descartes, the British Empiricists and beyond. Hence we shall say something about the interesting philosophical developments in the conception of mind that took place from one school of psychology to the next, and from Introspectionism to the Physiological Psychology of Pavlov to Behaviourism to Gestalt Theory. The text used will be by Jerome Shaffer, *The Philosophy of Mind*. A lecture format is used. Evaluation is based on a major essay or two short essays and a final exam.

Prerequisite: One B-level course or half-course in Philosophy or Psychology

Session: Winter Day, Summer Evening

PHLC11S Topics in the Philosophy of Law / A. Gombay

A discussion of right and rights, justice, legality, and related concepts.

The course will examine and seek to adjudicate between competing theories of what a right is; competing theories of the relation between rights and legal systems; and competing theories about the nature of legal systems. We shall also discuss some controversial rights, e.g. "reverse discrimination", "privacy". Reading: R. Dworkin, *Taking Rights Seriously*. Three hours of lectures per week. Evaluation is based on two essays and one examination, each worth 1/3 of the final grade.

Prerequisite: PHLB11

Session: Winter Day

JMPC51S Symbolic Logic II / J.H. Sobel

A continuation of JMPB50F.

In the first and longest part of the course the natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The emphasis in this first part of the course is on techniques.

The second part of the course covers the meta-theory of standard elementary logic with emphasis on completeness proofs for sentential and predicate logic and on the "limitative theorem" due to Skolem, Godel and Church. The object in this part of the course is theoretical, not practical.

There will be three tests during the term and a final examination. The texts are D. Kalish and R. Montague, *Logic: Techniques of Formal Reasoning*; Geoffrey Hunter, *Metalogic: An Introduction to the Metatheory of Standard First-Order Logic*.

Prerequisite: JMPB50 or PHLB50 or MATB80

Session: Winter Day

PHLC52S Modal Logic and Probability / J.H. Sobel

An introduction to theories of possibility and necessity, subjunctive conditionals, and probability.

The logic of possibility and necessity will be studied: both axiomatic and natural deduction treatments will be developed. A theory of probability as a measure of a person's confidence in propositions will be taken up. The logic of subjunctive conditionals will be contrasted with that of material conditional or "horse-shoe". Theories that attempt to relate a person's probabilities and his views regarding subjunctive conditionals to what would be his rational decisions will also be examined. All theories studied will be interpreted in terms of a field of possible worlds, which will be the unifying principle of the course. Evaluation is based mainly on tests, problem-solving, and an examination.

Prerequisite: JMPB50

Session: Winter Day

PHLC71S Advanced Topics in Philosophy of Biology / R.P. Thompson

A seminar course dealing with conceptual and logical aspects of explanation and theory in Biology, and logical and heuristic aspects of models in Biology.

In 1980-81 the following topics will be covered: the logical structure of the theory of evolution, the conceptual assumptions underlying the theory of evolution, the logic of evolutionary and functional explanation, and the logical and heuristic aspects of the general model on non-parametric entrainment in circadian rhythm research. Seminar two hours per week. Evaluation is based on a seminar presentation and an essay.

Exclusion: (PHLC87)

Prerequisite: PHLB70 or PHLB71; permission of instructor

Session: Winter Day

PHLC95F/S**PHLC96F/S****PHLC97F/S****PHLC98F/S****PHLC99Y Independent Studies / Staff**

Prerequisites: Two B-level half-courses in Philosophy; permission of instructor

PHILOSOPHY COURSES NOT OFFERED IN 1980-81**PHLB03F/S Philosophy and Art****PHLB04F/S Philosophy in Literature**

Exclusions: (PHLB26), (PHLB60)

PHLB10F/S Society, the State and the Citizen**PHLB12F/S Marx and Marxism**

Prerequisites: One course or half-course in Philosophy, Sociology, Political Science, or Economics. PHLB10 is recommended but not required.

PHLB14F/S Philosophy of Social Science

Prerequisite: One course in Philosophy or in the Division of Social Sciences.

PHLB15F/S Philosophy of Education**PHLB16F/S Philosophy of History****PHLB17F/S Anarchism****PHLB42F Aristotle I****PHLB43S Aristotle II****PHLB44F Philosophers of the Middle Ages I****PHLB45S Philosophers of the Middle Ages II****PHLB46F Philosophy of the Early Modern Age I****PHLB47S Philosophy of the Early Modern Age II****PHLB80F/S Philosophy of Language**

Prerequisite: One B-level course or half-course in Philosophy or Linguistics.

PHLB87F/S Contemporary Philosophic Issues

Prerequisite: One full-course equivalent in Philosophy

PHLB88F/S Contemporary Philosophic Issues

Prerequisite: One full-course equivalent in Philosophy

PHLB89F/S Contemporary Philosophic Issues

Prerequisite: one full-course equivalent in Philosophy including PHLB80F

PHLC02S Contemporary Ethical Theories

Exclusion: (PHLB02)

Prerequisite: One full-course equivalent in Philosophy including PHLB01

PHLC87F/S Seminar in Philosophy

Prerequisite: PHLB70 or PHLB14; permission of instructor

PHLC88F/S Seminar in Philosophy

Prerequisite: Two B-level half-courses in Philosophy; permission of instructor

PHLC89F/S Seminar in Philosophy

Prerequisite: Two B-level half-courses in Philosophy; permission of instructor

PHYSICS

Discipline Representative: M.B. Walker

Physics is the study of inanimate matter in action, and of the basic laws which describe how the parts of matter move, and how they influence each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a neighbouring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws - quantum mechanics and the theory of relativity, together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter may be understood in terms of the interactions between the individual units of which these forms of matter are composed.

Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses and of X-ray, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications of the subject.

It is possible to develop, in mathematical language, theories that run so closely parallel to the development of physical phenomena that they may be used to accurately describe and even predict the results of many carefully controlled experiments. The study of physics therefore requires some studies both of mathematics and of the techniques that are needed in the performance of accurate experiments.

Students intending to study physics in depth should select their courses in accordance with the requirements of either the Specialist or Major Programme in Physics. Students whose interests lie in the life sciences may choose the pair of courses PHYA03 and PHYB13 which offer a survey of physics with many applications from the life sciences and medical physics. PHYB03 along with the laboratory course PHYB08H offers an introduction to electronics and is also available to students outside the Physics Programmes.

The listed pre-and corequisites imply others not explicitly listed: details are available from the Supervisor and the Registrar's Office.

Students interested in physics should also refer to:

NSCA01Y	Introduction to Natural Science: Physical Science
JPAC10Y	Relativity and Cosmology
JPMC42S	Advanced Classical Mechanics.

Specialist Programme in Physics

Supervisor: A.E. Jacobs

Students must complete thirteen full-course equivalents in Physics and Mathematics, as specified below. An optional Mathematics sequence more suitable for students with interest in mathematics and physics or theoretical physics is specified in parentheses. It is essential that students choose the appropriate set of Mathematics courses from the beginning, since transfers between the sets are severely restricted. It is recommended that all students take MATA40F/45S and at least one half-course in computing.

- (1) In the first year of full-time study (or equivalent):

PHYA02Y	Principles of Physics (or PHYA03Y Physics for Life Sciences I)
MATA26Y	Calculus (or MATA55Y Calculus)
- (2) In the second year of full-time study (or equivalent):

PHYB01S	Electricity and Magnetism I
PHYB03F	Introductory Electronics
PHYB04F	Waves and Optics
PHYB08H	Intermediate Laboratory
PHYB09S	Thermodynamics
PHYB17S	Quantum Physics I
MATB41F	Calculus of Several Variables I
MATB42S	Calculus of Several Variables II (or MATB50F Analysis I, MATB55S Analysis II)

- (3) In the third year of full-time study (or equivalent):

PHYC01F	Quantum Physics II
PHYC03Y	Electricity and Magnetism II
PHYC05H	Advanced Laboratory
PHYC06F	Statistical Physics
JPMC42S	Classical Mechanics
MATC51F	Differential Equations I
MATC60F	Complex Analysis I

- (4) In the fourth year of full-time study (or equivalent):
three full-course equivalents from:

PHYB18F	Special Relativity
JPAC10Y	Relativity and Cosmology
JPA300Y	Physics and Archeology
PHY215H	Geophysics
PHY334H	Introduction to Condensed Matter Physics
PHY335H	Introduction to Nuclear Physics
PHY337H	Elementary Particle Physics
PHY339H	Electronics
PHY344H	Elasticity and Fluid Mechanics
PHY345H	The Physics of Diagnostic and Therapeutic Radiology
PHY425Y	Advanced Quantum Physics Laboratory
PHY426H	Advanced Quantum Physics Laboratory

Note: Students who are interested in graduate studies in physics should consult with the Supervisor, preferably at the beginning of the third year, about the advisability of including one or more 400-series St. George courses in their programme.

Major Programme in Physics

Supervisor: A.E. Jacobs

Students must complete eight full-course equivalents in Physics and Mathematics, as specified below. The optional Mathematics courses listed in parentheses are more suitable for students with interests in mathematics and physics or theoretical physics. It is recommended that all students take at least one half-course in computing.

- (1) In the first year of full-time study (or equivalent):

PHYA02Y	Principles of Physics (or PHYA03Y Physics for Life Sciences I)
MATA26Y/MATA55Y	Calculus
- (2) In the second year of full-time study (or equivalent):

PHYB01S	Electricity and Magnetism I
PHYB03F	Introductory Electronics
MATB41F	Calculus of Several Variables I
MATB42S	Calculus of Several Variables II (or MATB50F Analysis I, MATB55S Analysis II)
PHYB04F	Vibrations, Waves and Optics
PHYB17S	Quantum Physics I
PHYB08H	Intermediate Laboratory
- (3) In the third year of full-time study (or equivalent):

PHYC01F	Quantum Physics II
MATC51F	Differential Equations I

 One and one-half additional full-course equivalents from PHYB09S, B18F, C03Y, C05H, C06F, JPMC42S

PHYA02Y Principles of Physics / J.D. King

This course with its associated laboratory offers a survey of the principles of physics. It is intended for those whose interests lie primarily in the physical sciences. Topics include: kinematics and dynamics of single particle motion, simple harmonic motion, molecular motions, kinetic theory, laws of thermodynamics, waves, elementary statistics and quantum physics, and electricity and magnetism.

The course structure is two hours of lectures (with discussion and demonstrations), one hour of tutorials per week, and three hours of laboratory every second week. The method of evaluation is one problem set per week, mid-term tests, laboratory work, and a final examination.

Exclusion: PHYA03 (PHYA01)

Corequisites: MATA22 or MATA26 or MATA55

Session: Winter Day

PHYA03Y Physics for the Life Sciences I / H.C. Corben, P.J. O'Donnell

Vibrations and waves; sound, hearing, echo location, and ultrasound; optics of vision; mechanics with applications to animal size and motion; heat and energy with special attention to heat balance in animals; atomic, molecular and nuclear physics.

Exclusion: (PHYA01) PHYA02

Corequisite: MATA22 or MATA26 or MATA55

Session: Winter Day

PHYB01S Electricity and Magnetism I / M.J.G. Lee, J.M. Perz

Coulomb's law, electric fields, Gauss' law, electric potential, capacitance, dielectrics, magnetic forces and fields, inductance, magnetization, Maxwell's equations and electromagnetic waves.

Prerequisites: (PHYA01) or PHYA02 or PHYA03 and MATB41

Other recommended courses: PHYB03; PHYB08; MATB42 or MATB55

Session: Winter Day

PHYB03F Introductory Electronics / M.J.G. Lee

Circuit elements including diodes and transistors; fundamental circuits of rectifiers and amplifiers; linear circuit theory and simple filters.

Prerequisites: (PHYA01) or PHYA02 or PHYA03

Corequisite: PHYB08

Session: Winter Day

PHYB04F Waves / P.J. O'Donnell

Topics discussed include wave equations, superposition of waves, emission and absorption of waves, impedance, polarization, interference, and diffraction. Applications are made to sound waves, radio waves, light waves, surface water waves and waves on a string.

Prerequisites: PHYA02 or PHYA03 (or PHYA01); MATA26 or MATA55

Session: Winter Day

PHYB08H Intermediate Physics Laboratory / M.J.G. Lee, J.M. Perz

Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illustrating material covered in lecture courses PHYB01, PHYB03 and PHYB13). Limited enrolment: 20.

A six-hour laboratory period once every two weeks. A single experiment may extend over more than one period. Students are expected to plan their experiments thoroughly beforehand, discussing their approach with one of the instructors or demonstrators. Observations including numerical data must be recorded carefully and thoroughly. The *Intermediate Physics Laboratory Manual*, available in the laboratory, contains references to other sources, a number of which are available for consultation in the laboratory. The method of evaluation is based, with equal weight, first on the preparation and performance of the experiment, and recording of observations and data, and secondly on four formal laboratory reports.

Prerequisite: PHYA02 or PHYA03 (or PHYA01)

Corequisite: PHYB01 or PHYB03 or PHYB13

Session: Winter Day

PHYB09S Thermodynamics / G.A. Kenney-Wallace, A. Griffin

General principles of classical thermodynamics including the first, second and third laws and applications. Lectures are the same as those for the spring term half of CHMB03Y; problems oriented towards applications in physics will be provided.

Exclusion: CHMB03

Prerequisites: PHYA02 or PHYA03 (or PHYA01); MATB41 or MATB50

Corequisite: MATB42

Session: Winter Day

PHYB13Y Physics for the Life Sciences II / J.D. King

Electrical and magnetic phenomena; electromagnetic waves; conduction of electrical impulses by electronic devices, cables and nervous systems; interactions between EM waves and biological material; physical optics; macroscopic phenomena; statistical aspects of physics as applied to biological systems.

Exclusion: PHYB01

Prerequisites: PHYA03 or PHYA02 or (PHYA01)

Session: Winter Day

PHYB17S Introduction to Quantum Physics I / A.E. Jacobs

Experimental evidence of the need for quantum physics (photoelectric effect, atomic spectra, matter waves, blackbody radiation). Wave packets and the Schrodinger equation. Energy quantization, tunnelling, the harmonic oscillator. Quantization of angular momentum and spin.

Prerequisites: PHYB04; MATB41 or MATB50

Session: Winter Day

PHYB18F Special Relativity / A. Griffin

Foundations of relativity theory. Lorentz transformations. Relativistic kinematics and optics. Space-time four-vectors, relativistic particle mechanics.

Exclusions: JPAC08

Prerequisites: PHYA02 or PHYA03 (or PHYA01)

Session: Winter Day

PHYC01F Quantum Physics II / A. Griffin

Hamiltonian operator and Schrodinger's equation. Angular momentum. The harmonic oscillator. Central forces with emphasis on the hydrogen atom. Electron spin.

Evaluation is based on term tests, problem sets and a final examination.

Prerequisites: PHYB01 or PHYB13; PHYB17; (MATB41 and MATB42) or (MATB50 and MATB55)

Session: Winter Day

PHYC03Y Electricity and Magnetism II / M.B. Walker

Electrostatic fields in vacuum and in dielectric materials; multipole expansion, polarization, polarization current density, susceptibility, forces on conductors, forces on dielectrics etc. Laplace's and Poisson's equations and their solutions in particular cases. Special relativity and the transformation laws obeyed by the fields and potentials. Magnetostatic fields in vacuum and in materials; induction, inductance, magnetic torque and pressure, magnetization, susceptibility, hysteresis, etc.. Maxwell's equations. Propagation of electromagnetic waves in infinite media (free space, nonconductors, conductors and low-pressure ionized gases); Poynting vector. Reflection and refraction of electromagnetic waves; Snell's law, Fresnel's equations, Brewster angle, total internal reflection, etc. Wave guides, TE, TM and TEM waves. Radiation of electromagnetic waves; antennae. Applications of theory to practical problems is emphasized.

The bibliography is (1) *Electromagnetic Fields and Waves* by P. Lorrain and D. Corson (2nd edition); (2) *Foundations of Electromagnetic Theory* by J.R. Reitz and F.J. Milford; (3) *Electromagnetic Fields and Interactions*, Volume I by Richard Becker; (4) *Classical Electrodynamics* by J.D. Jackson. The method of evaluation is two term tests and problem sets.

Prerequisites: PHYB01; PHYB04; MATB41 or MATB50

Corequisite: MATC51

Other recommended course: PHYB18

Session: Winter Day

PHYC05H Advanced Physics Laboratory / M.J.G. Lee, J.M. Perz

A selection is made of a number of advanced and detailed experiments illustrating fundamental principles and techniques in physics. Limited enrolment: 20.

This course is designed to involve students in some more complex experiments, introducing them to vacuum techniques, X-rays, nuclear instrumentation, etc. Students will work with a minimum of supervision and will be expected to take the initiative in overcoming experimental difficulties. The course structure is one six-hour laboratory period every second week. A single experiment may extend over more than one period. The method of evaluation is based, with equal weight, first on the performance of the experiments and recording of observations and data, and secondly on four formal reports.

Prerequisite: PHYB08 and permission of instructor

Corequisite: PHYC01

Session: Winter Day

PHYC06F Statistical Physics / P.J. O'Donnell

Studies of entropy, thermodynamics and statistical mechanical ensembles, with applications including the kinetic theory of gases, paramagnetism, the specific heats of gases, isotope separation and phase transitions.

Exclusion: PHYB05

Prerequisite: PHYB17

Session: Winter Day

JPAC10Y Relativity and Cosmology

A brief review of the special theory of relativity and of the mathematical background of general relativity theory. General relativistic field equations in free space and in the presence of matter, gravitational radiation, cosmological theories and observations.

This course may not be offered in 1980/81. Consult Divisional Office or Astronomy discipline representative.

Exclusions: ASTC10; PHYC10

Prerequisites: PHYB01; JPMC42, PHYB18F would be desirable

Session: Winter Day

JPMC42S Advanced Classical Mechanics

Dynamics of particles and rigid bodies. Variational principle. Lagrangian and Hamiltonian formulation of mechanics. Canonical transformations. Hamilton Jacobi theory. Small oscillations.

Exclusions: (PHYB46, MATB46, PHYC42, MATC42)

Prerequisites: PHYA02 or PHYA03 (or PHYA01); MATC41

Session: Winter Day

POLITICAL SCIENCE

Assistant Chairman: E.G. Andrew

Political science consists of a variety of approaches to the study of politics. Politics loosely refers to the process of trying to resolve conflicting interests and points of view in the public realm. One might say the object of Political Science is the state as that of economics is the economy and that of sociology is society. But the discipline includes not only the study of policies and arrangements created as a means to preclude violent resolution of conflict at the level of the nation state but also the institutional and informal means to enhance a group's power (that is, their ability to have their views and interests implemented) from the level of the municipality to the international realm.

Political science is divided into the following fields: Canadian government, comparative government (subdivided into the politics of industrialized and non-industrialized countries), public administration, international relations, political behavior and political theory. In the study of *Canadian Government* students will become familiar with constitutional arrangements and policies at various levels of government in Canada. *Comparative Government*, a comparison of practices and policies of a wide variety of other nations, will broaden the student's awareness of foreign political systems and further facilitate an understanding of Canadian political culture. *Public administration* deals with the institutions or organizational structures through which public policies are implemented. *International relations* is devoted to the analysis of the foreign policy of various nation states and of the relations obtaining amongst nation states. *Political behavior* adopts a quantitative approach to political questions and is differentiated from other divisions of political science in terms of its method rather than its subject matter. *Political theory* explores the reasons advanced for various political doctrines and policies; that is, it attempts to clarify the place of politics in relation to varying conceptions of the "quality of life".

Courses may be taken in varying sequences and combinations, leading to a Specialist Programme for those completing an approved Programme of ten full-course equivalents, or to a Major Programme for the completion of a more limited sequence of courses.

Specialist Programme in Political Science

Supervisor: E.G. Andrew

Students who intend to pursue a Specialist Programme in Political Science should, as early as possible, draw up a preliminary programme of study in consultation with a member of the Political Science staff. An orientation meeting will be scheduled in the Fall to help familiarize students with the aims of the Political Science Programmes as well as to introduce faculty responsible for teaching, and career and graduate study guidance. The recommended sequence of courses begins with an introductory

course at the A level. Students who wish to pursue advance courses in Canadian Government should also include POLB50 early in their Programme.

Students must complete ten full-course equivalents in Political Science approved by the Supervisor and including the following:

- (1) POLA01Y Introduction to Political Studies
- (2) Two courses in political theory from: POLA02Y, POLB70-71Y, POLC70Y
- (3) POLB50Y Canadian Government and Politics
- (4) One course from each of any three of
 - A. Public Administration: POLB60-B64, POLC60-C64
 - B. Political Behaviour: POLB65-B69, POLC65-C69
 - C. International Relations: POLB80-B84, POLC80-C84
 - D. Comparative Politics, Industrial Countries: POLB85-B90, POLC85-C90
 - E. Comparative Politics, Developing Countries: POLB91-B99, POLC91-C97

Additional courses in Canadian Government are POLB51-54 and POLC50-51, and other course which overlap with public administration, political behaviour, international relations and comparative politics of industrial countries. Students in the Specialist Programme may not take more than fourteen full-course equivalents in Political Science. In selecting courses from other disciplines they should consult with the Supervisor or with a member of the Political Science staff.

Major Programme in Political Science

Supervisor:

Students must complete at least six full course equivalents in Political Science including:

- (1) POLA01Y Introduction to Political Studies
- (2) POLB50Y Canadian Government and Politics
- (3) A course in political theory (POLA02Y, POLB70Y or B71Y)
- (4) A full-course equivalent in each of at least two of
 - A. Public Administration: POLB60-64, POLC60-64
 - B. Political Behaviour: POLB65-69, POLC65-69
 - C. International Relations: POLB80-84, POLC80-84
 - D. Comparative Politics, Industrial Countries: POLB85-90, POLC85-90
 - E. Comparative Politics, Developing Countries: POLB91-99, POLC91-97

Specialist Programme in Economics and Political Science

(see under Economics)

POLA01Y Introduction to Political Studies / S. Colman and J. Esbrey; M. Donnelly

An introduction to some of the most vexing problems of political life - such as participation, equality, liberty, distribution of power, and the influence of vested interests. Students will examine these problems as they are treated by major political theorists and as they occur in the institutional structure of Canada and some other Western democracies.

Session: Winter Day, Winter Evening

POLB50Y Canadian Government and Politics / R.S. Blair

A study of Canadian political institutions and processes.

Specific topics include: the constitution, federalism, fiscal relations, political regionalism, class and politics, Quebec, political parties, interest groups, representation, Parliament, Cabinet, legislative-executive relations, the public service, policy-making. There will be two lectures a week, and tutorial groups will meet once every two weeks. The scheme of evaluation consists of two essays and a term test each worth 20% of the final mark, and a final examination, worth 40%. For preliminary reading students are recommended to read T.A. Hockin, *Government in Canada*.

Exclusion: (POLB01; POLA01 prior to 1978-79)

Session: Winter Day

POLB51F Government and Politics in Ontario

The course begins with a study of the provincial constitution and then proceeds to an analysis of elections and the party system. Thereafter the major institutions - executive, legislature, and the public service - together with their inter-relationships are examined.

It will be assumed that the students have acquired a basic knowledge of parliamentary government in Canada so that attention can be focused on the distinctive way in which this system operates in Ontario. Where possible emphasis will be placed on case studies of the system in practice and will include an examination of provincial-local government relations.

The course will be taught in a weekly two-hour seminar and the students will be expected to undertake preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting and will include a combination of examination, essays and class discussion.

Exclusion: (POLB37)

Prerequisite: POLA01 or POLB50 (formerly B01).

Session: Winter Day

POLB52F Canadian Constitutional Law

The greater part of the course will be devoted to an examination of the judicial role in interpreting the division of legislative powers contained in the B.N.A. Act. The texts of relevant decisions will be analysed in detail. The remainder of the course will deal with the subject of constitutional change, civil liberties, and administrative powers.

The scheme of evaluation consists of an essay and a final examination, each worth 50% of the final mark. The main text in the course is Peter H. Russell (ed.), *Leading Constitutional Decisions* (rev. ed.).

Exclusion: (POLB32)

Prerequisite: (POLB01; POLA01 prior to 1978-79)

Session: Winter Day

POLB53Y Public Policies in Canada / R. Manzer

A study of the patterns of growth in federal and provincial policies for economic progress, social order, and human development; of the relationship between changing public policies and Canadian political development; and of the contributions made by instruments of government toward the achievement of basic political values.

Exclusion: (POLB35)

Session: Winter Day

POLB54F Intergovernmental Relations

An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada.

Exclusion: (POLB19)

Prerequisite: POLA01

Session: Winter Day

POLB60Y Public Administration / J. Galimberti

An examination of the role of the bureaucracy in the Canadian and other political systems, focussing on the organization, staffing and management of the public service. Special emphasis will be placed on the powers of the bureaucracy and ways and means of controlling it.

Exclusion: (POLB05)

Session: Winter Evening

POLB65Y Political Behaviour / J. Fletcher

An introduction to the analysis of political behaviour. This course will examine the empirical and theoretical efforts of political scientists to discern the social, cultural and personal foundations of political behaviour. Special consideration will be given to the problem of political ideology. Lectures and discussion.

Exclusion: POLB30

Session: Winter Day

POLB70Y Political Thought from Plato to Locke / E. Andrew

A discussion of the political thought of Plato, Aristotle, Augustine, Machiavelli, Hobbes and Locke. Students will be expected to read Plato's *Republic*, Aristotle's *Politics*, Machiavelli's *The Prince*, Hobbes' *Leviathan* (Parts one and two) and Locke's *Second Treatise of Government*. The political writings of St. Augustine and St. Thomas Aquinas will also be studied.

The teaching method will be two hours of lectures and one tutorial hour per week. Evaluation will be based on a final examination (50%) and two term papers (each 25%).

Exclusion: (POLB06)

Session: Winter Day; Summer Evening

POLB71Y Political Thought of the Eighteenth and Nineteenth Centuries / S. Solomon

A study of the major political philosophers of the eighteenth and nineteenth centuries.

Students will be expected to study selected writings of Rousseau, Montesquieu, Burke, Tocqueville, J.S. Mill and Marx.

The teaching method will be two hours of lecture. The course evaluation will be based on a final examination (50%) and two term papers (each 25%).

Exclusion: (POLB03)

Session: Winter Day

POLB80Y International Relations / A. Rubinoff

A study of the nature of the international system; the factors that motivate foreign policies; and the institutions for the conduct of international relations. The purpose of the course is to help the student develop intellectual tools with which to analyse politics at the international level.

Exclusion: (POLB10)

Session: Winter Day, Winter Evening

POLB82Y American Foreign Policy / A. Rubinoff

This course examines the foreign policy of the United States by looking at the tradition and context of American decision-making, the process by which it is formulated, and its application to a number of specific regions and problems in the world.

Exclusion: (POLB42)

Prerequisites: POLB10 or (POLB26) now POLB87

Session: Winter Day

POLB86Y Soviet Government and Politics / S.G. Solomon

The development of Soviet political and social institutions since 1917, with emphasis upon the process of modernization and its effects.

The course examines the formation and consolidation of the Soviet political order and the urgent problems confronting Soviet society today, both internally and in its relations with other states.

This is a lecture course. Students will be evaluated on the basis of one essay each semester and a final examination.

Exclusion: (POLB23)

Session: Winter Day

POLB87Y U.S. Government and Politics / M.W. Donnelly

A general examination of national institutions and political processes in the United States with special emphasis on the role of presidential leadership in policy making.

Specific topics include: the "constitution", the social basis of political conflict, political participation, the links between state and society, the Washington Community and patterns of public policy.

Teaching method will consist of lectures and discussion. Evaluation will be based on a combination of exams and essays.

Exclusion: (POLB26Y)

Session: Winter Day; Summer Day

POLB88Y Urban Politics

An examination of the politics and government in urban areas: the city as a unit of political analysis and action; urban planning; urban political institutions; problems in providing social services in cities; patterns of decision-making and political participation. Emphasis will be on urban politics in Canada and the United States. Students will be expected to write a paper on a problem in the politics of Metropolitan Toronto.

Exclusion: (POLB36)

Session: Winter Day

POLB89Y Politics and Society in Contemporary Japan

An analysis of politics and government in contemporary Japan. Special attention will be given to social and cultural explanations of political behaviour. The contributions made by government policy toward achieving "miraculous" economic growth will be considered.

Exclusion: (POLB39)

Session: Winter Day

POLB91Y Politics of the Third World / K.R.J. Sandbrook

The emphasis in this course will be upon the effects which various Western, especially North American, policies and practices have had upon development in the Third World. The policies and practices to be surveyed include those relating to foreign aid, the multi-national corporation, and Western security. Case material will be drawn from four countries in Latin America and Africa which illustrate a diversity of approaches to development: Cuba, Chile, Ghana, Kenya.

The major aim of this course is to demonstrate that any successful anti-poverty programme for Third-World societies must combine widespread change in both national and international political and economic orders. The course thus encompasses analyses of both the political economy of each of four Third-World countries and the transnational influences emanating from advanced industrialized countries. A good book which examines the link between reform at the national and international levels is Mahbub ul Haq's *The Poverty Curtain: Choices for the Third World* (New York: Columbia Univ. Press, 1976).

Exclusion: (POLB38)

Session: Winter Day

POLB93Y The Chinese Political System / V.C. Falkenheim

An analysis of Chinese political institutions, behaviour and thought, with primary emphasis on the contemporary political system since 1949.

Exclusion: (POLB17)

Session: Winter Evening

POLC51S Topics in Canadian Government / J. Esbrey

An intensive study of selected important topics in the field of Canadian government and politics.

This year the topics to be explored will include:- the politics and management of Canadian economic policy; secrecy; delegated legislation and its consequences; consequences of structural changes in the machinery of central government.

The course will be taught in a weekly two-hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.

Exclusion: (POLB37)

Prerequisite: POLA01 or (POLB01) now B50

Session: Winter Day

POLC60F Administrative Politics / R. Manzer

Analysis of politics in the administrative processes of democratic states--the conflicting interests, ideas and values of governmental agencies; differentials in their resources; and the effects of variations in political institutions and practices--in Canada and the United States but with some reference to European experience.

Prerequisite: (POLB05) - now B60 - permission of instructor

Session: Winter Day

POLC61S Policy Development / R. Manzer

Analysis of the process of formulating, implementing and evaluating public policy in a modern democratic state with cases based primarily on contemporary policies for economic stabilization, public schooling and criminal justice in Canada.

Prerequisite: POLB05 - now B60 - or (POLB35) - now B53

Session: Winter Day

POLC70Y Twentieth Century Political Thought

A study of some of the major developments in political thought in the 20th Century.

The course examines the evolution of democratic theory with particular attention to the impact on that theory of the sociopolitical crisis (the failure of democracies and rise of fascism in Europe) and the growth of new approaches to social inquiry (quantitative research, behavioural studies).

Students will be evaluated on the basis of one essay each semester and a final examination.

Exclusion: (POLB29)

Session: Winter Evening

POLC85Y Comparative Communism / V.C. Falkenheim

An analysis of society and politics in a variety of countries currently governed by Marxist-Leninist parties.

Exclusion: (POLC06)

Prerequisite: One B-level course in Political Science

Session: Winter Day

POLC91F Urbanization and Underdevelopment / K.R.J. Sandbrook

An analysis of how cities in selected African and Latin American countries reflect the underdevelopment of the latter in their histories, functions, occupational structures and processes of social marginalization, and of the efficacy of present and proposed policies and strategies to ameliorate the major problems arising therefrom.

Students who wish to do some preparatory reading for this seminar course are directed to Janice Perlman's *The Myth of Marginality: Urban Poverty and Politics in Rio de Janeiro* (Univ. of California Press, 1976) and Andrew Hake's *African Metropolis: Nairobi's "Self-Help City"* (New York: St. Martin's Press, 1977).

Exclusion: (POLC13)

Prerequisites: A B-level course in a Social Science. A prior course on development or some part of the Third World is advisable but not mandatory.

Session: Winter Day

POLC92S Multinational Corporations and Underdevelopment / K.R.J. Sandbrook

This course will assess the impact of these large, Western-based firms upon the politics and economies of selected countries in Africa and Latin America. Particular attention will be placed upon the strategies, both in operation and in prospect, to control the firms and extract the maximum benefits from their operations for the poor. There will be case studies of multinational firms engaged in both primary production and manufacturing in underdeveloped countries.

Students who wish to undertake some background preparation for this seminar course are advised to read one or both of: Richard Barnet and Ronald Muller's *Global Reach: The Power of the Multinational Corporations* (New York: Simon & Schuster, 1974) and Raymond Vernon's *Storm over the Multinationals: The Real Issues* (Cambridge, Mass.: Harvard Uni. Press, 1977).

Exclusion: (POLC14)

Prerequisites: One Social Science course dealing with the Third World or development.

Session: Winter Day

POLC98F Supervised Reading / Staff

Advanced reading programme in special topics.

This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.

Exclusion: (POLC04)

Prerequisite: One B-level course in Political Science; permission of instructor.

Session: Winter Day

POLC99S Supervised Reading / Staff

Advanced reading programme in special topics.

This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.

Exclusion: (POLC05)

Prerequisite: One B-level course in Political Science; permission of instructor

Session: Winter Day

COURSES NOT OFFERED in 1980-81

POLA02Y Introduction to Political Theory

POLB66Y Psychology and Politics

Exclusion: (POLB24)

POLB81F Canadian Foreign Policy

Exclusion: (POLB40)

Prerequisite: POLB01 (formerly A01) or POLB10

- POLB85Y Comparative Politics of Industrial Societies**
Exclusion: POLB18
Prerequisite: One course in Political Science or permission of instructor
- POLB92Y Politics and Society in Independent Africa**
Exclusion: (POLB12)
Prerequisites: None, but a course in Introductory Political Science would be helpful
- POLB94Y Politics and Government of South Asia**
- POLC50Y Canadian Problems in Comparative Perspectives**
Exclusion: (POLC15)
Prerequisite: One of: POLA01, A03, B26, B34
- POLC62F Organized Interests and the State**
Prerequisite: (POLB05) - now B60 or (POLB35) - now B53
- POLC65F Topics in Political Leadership**
Exclusion: (POLC12)
Prerequisite: POLB66 (POLB24) or POLA01 or POLB50 (POLB01) or POLB85 (POLB18) or POLB87 (POLB26) or POLC50 (POLC15)
- POLC81S Psychology of International Relations**
Exclusion: (POLC11)
Prerequisite: POLB24 or POLB10
- POLC86S Intergovernmental Relations in the European Economic Community**
Exclusion: (POLB34)

PSYCHOLOGY

Psychology is that branch of science which seeks to understand behaviour and experience. Why humans and infrahumans act as they do is a puzzle which has always challenged mankind. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. But the methods of scientific enquiry can also be applied to an understanding of behaviour.

The areas of interest which psychology encompasses include: how organisms perceive their environments; how they learn and adapt; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to stress and conflict; how the presence of other organisms in social settings influences their behaviour; how their behaviour relates to physiological functions; and how individuals differ from each other. The course offerings in Psychology consider how psychologists pursue enquiries into these areas and what knowledge they have gained.

The Specialist Programme in Psychology includes courses from the main subfields within the discipline. It has been designed both for students wishing to pursue graduate work in psychology and for students who have a general interest in this field. Students considering graduate study in Psychology should include the thesis course (PSYC98Y) in their Programme. The Major Programme is similarly designed to expose the student to the main areas within Psychology and is recommended for students with less specialized interest in the field.

Specialist Programme in Psychology

Supervisor: J.N. Bassili

The programme requires completion of eleven full-course equivalents.

A. Nine full-course equivalents in Psychology as follows:

1. PSYA01Y Introduction to Psychology
2. PSYB07F/S Data Analysis in Psychology
3. At least one full-course equivalent from among PSYB09F/S, PSYB11F/S, PSYB40F/S, PSYB41F/S, PSYB52F/S, PSYB62Y. (These courses involve laboratory exercises and expose students to experimental design and methodology in psychology).
4. At least one additional full-course equivalent from the B-level 10-, 20-, and/or 30-series. (This series represents social, developmental and personality psychology respectively).
5. At least one additional full-course equivalent from the B-level 40-, 60-, and/or 70-series. (This series represents learning, physiological and comparative psychology).
6. At least one additional full-course equivalent from the B-50 series. (Cognitive psychology-human learning, memory, sensation and perception).

7. At least two full-course equivalents at the C-level. Not more than one full-course equivalent selected from C90F/S/H, C93F/S/H, and C98Y may be offered in satisfaction of this requirement. (C90 courses involve supervised study or research).
 8. One and one-half additional full-course equivalents at the B or C- level in any area in Psychology.
- B. Two full-course equivalents, agreed upon in consultation with the Supervisor, in ANT, BIO, CSC, LIN, MAT, PHL and SOC. A list of current courses which are approved is available from the Supervisor.**

Major Programme in Psychology

Supervisor: J.N. Bassili

The programme requires completion of six full-course equivalents in psychology as follows:

1. PSYA01Y
2. PSYB07F/S
3. At least one half-course from among PSYB09F/S, PSYB11F/S, PSYB40F/S, PSYB52F/S, PSYB62Y. (These courses involve laboratory exercises and expose students to experimental design and methods in psychology.)
4. At least one additional half-course from the B-level 10-, 20- or 30-series. (This series represents social, developmental and personality psychology respectively.)
5. At least one additional half-course from the B-level 40-, 60- or 70-series. (This series represents learning, physiological and comparative psychology.)
6. At least one additional half-course from the B-50 series. (This series represents cognitive psychology - human learning, memory, sensation and perception.)
7. At least one full-course equivalent at the C-level. (This full-course equivalent cannot be composed entirely of courses selected from the C-90 series.)
8. One and one-half additional full-course equivalents at the B- or C- level in any area of Psychology.

PSYA01Y Introduction to Psychology / F. Klajner, A. Cohen

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality, and abnormalities of behaviour and experience. Two three-hour lectures per week. Lectures include discussion, demonstrations, films and laboratory exercises (TBA). One comprehensive text and one book of relevant readings (the titles have not yet been selected). There will be two term tests during the course (45%); a final examination (40%); laboratory reports (15%).

Exclusion: (PSYA02)

Session: Summer Evening

PSYA01Y Introduction to Psychology / C. MacLeod; The Faculty

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality, and abnormalities of behaviour and experience. Three lecture hours per week. In addition, students will complete four laboratory exercises in the course of the year, each requiring four hours of lab attendance on dates to be scheduled early in the session. Four term tests (two in each term) in class hours (40%); three-hour final exam (45%); three lab reports (15%).

Exclusion: (PSYA02)

Session: Winter Day, Winter Evening

PSYB07F Data Analysis in Psychology / B. Forrin

Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behaviour of man is explained by observing the behaviour of men. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (to the solution of simple linear equations in one unknown) is assumed.

The specific topics discussed include data reduction techniques: frequency distributions, measures of central tendency and variability, linear transformations, correlation and regression; and hypothesis testing procedures based on the binomial, chi-square, normal, and *t* distributions. (Students concerned about the adequacy of their background in mathematics should consult H. M. Walker's *Mathematics Essential for Elementary Statistics*, available in the College library, for a detailed survey of the skills required.) Four hours of lecture (with in-class problem solving) and one hour of tutorial per week. The final course grade has commonly been based on problem sets and brief quizzes (20%), two term tests (40%), and a final examination (40%). This is a required course in both the Specialist and the Major Programmes in Psychology.

Exclusions: ANTB43, ECOB11, GGRB02, STAB57 (MATB57), SOCB06

Session: Winter Day

PSYB08S Experimental Design in Psychology / B. Forrin

The course extends the range of techniques examined in PSYB07. Procedures are considered which permit the analysis and interpretation of data from complex experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students contemplating supervised individual research in Psychology.

The course focuses on the analysis of variance as a research tool and provides the rationale and mechanics of its application to a variety of experimental designs: simple randomized, repeated measures, factorial. Additional topics discussed include: homogeneity of variance, multiple comparisons, trend analysis, the analysis of covariance. Three hours of lecture (with in-class problem solving) and one hour of tutorial per week. The final course grade has normally been based on problem sets and brief quizzes (20%), two term tests (40%), and a final examination (40%).

Exclusion: MATC52

Prerequisite: PSYB07 or STAB57 (MATB57)

Session: Winter Day

PSYB09S General Experimental Psychology / G.B. Biederman

The experimental technique of psychology as applied to problems in learning, motivation and perception in infrahuman and human organisms. This course emphasizes research methods of psychology and is intended to provide a broad foundation of basic information and research techniques required in specialized laboratory courses and advanced courses.

The course provides introduction to methodological design problems in psychology in an empirical rather than statistical framework; i.e., how did you find out, rather than what did you find? Other recommended courses: prior or concurrent enrolment in PSYB07. Normal lectures will be given, but a "workshop" context will be employed. The course will be unitized, and following each unit a practice (non-graded) exam will be given with answers fully analyzed and "graded" by instructor and/or student. Practice exams may be retaken as desired. A comprehensive final exam will represent 40% of total course grade. Handouts will be given at the beginning of each laboratory and the student will be expected to answer questions posed. The lab assignment will comprise 60% of the total grade.

Prerequisite: PSYA01 or (PSYA02) or BIOA03

Session: Winter Day

PSYB10F/S Introduction to Social Psychology / J. Bassili

Social Psychology focuses on the problem of how human behaviour is influenced by others. The course is designed to demonstrate some phenomena of social behavior and to present theories and research evidence relating to these phenomena.

The course covers the following topics: social influence (conformity and obedience), prejudice, sexism, attitude change, group behaviour (crowding, crowd behaviour, panics), aggression, cooperation and competition, nonverbal communication, person perception, attraction and emotions. Teaching method: lectures and tutorials. Evaluation will be on the basis of three one-hour examinations.

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Evening (F), Winter Day (S)

PSYB11F Social Psychology Laboratory / K. Dion

This course is designed to consider in depth various research approaches used in social psychology (such as attitude questionnaires, observational methods for studying ongoing social interaction). **Limited enrolment: 25.**

Students will be introduced to conceptual and practical issues concerning research in social psychology, by gaining experience with several different types of research. Teaching method will be lecture-discussion and laboratory work. Evaluation will be on the basis of one essay examination and laboratory reports based on class projects.

Prerequisite: PSYB07; PSYB10

Session: Winter Day

PSYB20F Developmental Psychology / M. Tierney

This course is divided into two parts. The first examines broad frameworks which have been offered to explain human development, e.g. Piaget's cognitive theory, social learning view. The second part focuses on selected research areas which deal with different aspects of social and cognitive development in the infant and child; e.g. social attachment, intelligence, sex-roles and achievement.

The course focuses on developmental processes during infancy and childhood. Material covered will be drawn from both cognitive and social developmental perspectives. The teaching method will be two lecture hours plus one tutorial per week. The purpose of the third hour is to provide an opportunity for students to discuss lecture and reading material in smaller class sections. Information on evaluation will be available in the fall.

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Day, Summer Evening

PSYB30S Personality / A. Kukla

An introduction to some of the influential theories of personality and the research which they have guided. Specific theories covered vary from year to year. A typical selection might include the work of Skinner, Lewin, Freud, Jung, Laing and Ram Dass.

The aim of this course is to acquaint the student with the diversity of theoretical assumptions and research methods with which basic questions about human nature have been approached. Readings are from primary sources. Method of evaluation is two or three essay examinations.

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Day

PSYB32F/S Abnormal Psychology / J. Pauker

A critical examination of psychoanalytic, S-R, cognitive-interpersonal, biological and phenomenological views concerning the cause and treatment of abnormal behaviour. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.

Definition and identification of abnormality, historical-cultural influences on attitudes, practices, theories, and research; a variety of past and current viewpoints in hypothesis, model and theory development, including genetic physiological, stress, medical-psychiatric, psychoanalytic, social-learning, and sociological; classification systems, including problems in their reliability and validity; description of a variety of neuroses, psychoses, and other behavioural disorders of adults and children, including cognitive, emotional, sensory-perceptual, psychomotor, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetics, and epidemiological research; management, control, and modification of abnormal behaviour, within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Evening both terms

PSYB33S The Measurement of Psychological Attributes / B. Forrin

A fundamental concern within psychology is the means by which the aptitudes and abilities of individuals, their interests and attitudes, their enduring character traits may be measured. Methodological principles underlying the construction of psychological tests, the interpretation of the scores they yield and the assessment of their value are discussed and illustrated by reference to a variety of psychometric instruments. Some attention is also devoted to certain substantive issues associated with the measurement of psychological attributes, e.g. the nature of "intelligence".

The course is intended to foster an understanding of how psychologists seek to derive meaning from measurement; it does not take as a significant objective the development of practical skills in test administration. For a detailed survey of topics covered, see Anastasi's *Psychological Testing* (4th ed.) or Cronbach's *Essentials of Psychological Testing* (3rd ed.). Three hours of lectures per week. The final course grade is commonly based on problem sets and brief quizzes (20%), two term tests (40%), and a final examination (40%).

Prerequisites: PSYB07 or STAB57 (MATB57); one additional half-course in Psychology at the B-level

Session: Winter Day

PSYB40F Learning / G.B. Biederman

Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to the problems and techniques in the study of the acquisition of behavior. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory construction.

The course provides theoretical and empirical experience relevant to basic concepts and current problems in learning and motivation. Evaluation will be based on the same method as PSYB09S.

Prerequisites: PSYA01 or (PSYA02); PSYB09; PSYB07 or STAB57 (MATB57)

Session: Winter Day

PSYB41F Operant Conditioning / G.B. Biederman

Review of operant conditioning research with laboratory exercises in operant schedules of reinforcement and stimulus control of behaviour. The course emphasizes study of the control of steady-state performance and provides opportunity for the observation and control of operant behaviour in infrahuman subjects in the laboratory. Topics include: complex schedules of reinforcement, stimulus control, models of operant behaviour, discussion of applications of operant techniques in behaviour modification. Evaluation will be based on the same method as in PSYB09.

Prerequisite: PSYA01 or (PSYA02); PSYB09; PSYB07 or STAB57 (MATB57) and PSYB40 are recommended

Session: Winter Day

PSYB50F Sensation and Perception / A. Cohen

An investigation into the processes by which we gain information about the world around us, and the laws which govern the way in which that information is used to construct our perceptions.

Stimuli for the human senses, especially light and sound; receptors and sensory pathways with emphasis on vision; sensitivity; colour and tone; spatial and temporal resolution; contrast; perception of space and movement; perception of pattern and form. The teaching method will be lectures, for which preparatory reading will be important, and classroom demonstrations of many phenomena under discussion. A final examination and term assignment including tests and some short paper(s) or report(s).

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Evening

PSYB51F Perceiving and Knowing / J.M. Kennedy

In obtaining information about our environment we rely on first-hand contact with real things, and also on second-hand contact, with representations - we have to distinguish between reality and appearance, objects and images, the pictured and pictures. The course examines such distinctions using data from children and adults, from different cultures, from different eras, and from different species. Demonstrations and exercises will form part of the course work, but prior knowledge of laboratory procedures is not required.

Theories of representation and research studies by psychologists and educators. Specific topics include displays for the perceptually handicapped, projection, outline representation, machine decoding of pictures, trompe l'oeil, ambiguous pictures, impossible objects, metaphor in pictures, perception by special groups in New Guinea, Africa, India. Cave art. Illusory effects. The teaching method will consist of lectures and exercises. Evaluation will be on the basis of three exercise reports and two multiple-choice/essay examinations.

Prerequisite: A B-level course in Psychology (or PSYA01 or (PSYA02) and permission of instructor); PSYB50, PSYB52, FARA70, PHLB03 are recommended

Session: Winter Day

LPB55F Psycholinguistics / P.H. Salus

The course presents theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.

The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and Phylogenesis will be discussed.

There will be lectures, films and discussion. Evaluation will be based on two one hour exams and two brief papers.

Exclusion: LINB05

Prerequisite: LINA01

Session: Winter Day

PSYB57S Human Learning and Memory / C. MacLeod

Discussion of the theoretical and experimental literature on human learning and memory. A general cognitive perspective is taken, where learning and memory are viewed as critical aspects of active information processing. The course will provide an in-depth analysis of the encoding, storage, and retrieval processes involved in active memory and in long-term memory.

The teaching method will consist of three lecture-hours per week. Concurrent readings from the text and original sources will supplement and extend the lecture material. Students should be prepared to do a considerable amount of reading and thinking about the issues. Extra-class sessions can be arranged to pursue issues of less general interest. Evaluation will be on the basis of three components to the course grade: a multiple-choice mid-term exam worth 30%; a non-cumulative end-of-term exam also worth 30%; and a term paper worth 40%.

Prerequisite: PSYA01 or (PSYA02); PSYB09 or permission of instructor.

Session: Winter Day

PSYB60F Brain Mechanisms and Behaviour: I / N.W. Milgram

Students with prior credit for PSYB65 may take PSYB60 for credit. This course and PSYB61 deal with the relationship between behaviour and the structure and function of the nervous system. Topics covered in PSYB60 include: neuroanatomy, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception.

The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behaviour of an organism. Neuroanatomy, structure and function of neurons, neuropharmacology, and neural mechanisms of sensation and movement.

The teaching method is three hours lecture and one hour lab or tutorial per week.

Prerequisite: PSYA01 or (PSYA02). PSYB65 is recommended for students with no Biology background.

Session: Winter Day, Summer Evening

PSYB61S Brain Mechanisms and Behaviour: II Physiology of Motivation and Learning / T. Petit

This is a continuation of PSYB60. Topics covered under the category of Motivation include: physiological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward. Topics covered under Learning include: physiological processes and memory, structural basis of learning and memory, biochemistry and memory.

The course is designed to provide students with an understanding of the physiological substrates underlying behaviour. Discussions will centre around current topics in physiological psychology and will draw on recent research to support or challenge current theories in motivation and learning. In motivation, the general areas of feeding, sexual behaviour, and reinforcement will be discussed from neurological and neuropharmacological perspectives. Neurophysiological basis of learning and memory will be dealt with and then integrated with motivational models to provide a basis for understanding brain function in behaviour. Three hours of lecture per week. Two exams: mid-term and comprehensive final, 50% each.

Prerequisite: PSYB60

Session: Winter Day

PSYB62Y Research in Physiological Psychology / N.W. Milgram

Students learn how to use a variety of techniques used in investigations of nervous system function. The course is intended for students intending to pursue a Specialist Programme in either Psychology or Biology and who are particularly interested in the neurosciences.

The course starts out with a dissection of a sheep brain. Subsequently, the procedures covered include: (i) histology (preparing, cutting and staining neural tissue); (ii) lesioning specific regions of the central nervous system; (iii) chemical stimulation of the brain; (iv) electrical stimulation of the brain; (v) programming relay circuitry; (vi) electrophysiological recording techniques. The teaching method is two hours of lectures a week, three hours of scheduled laboratory work; in addition, students might spend a few further hours of their free time working in the student laboratory. The course involves a series of five laboratory projects, three mid-term examinations and one final examination.

Prerequisites: PSYA01 or (PSYA02); PSYB07 or STAB57 (MATB57); PSYB09 or a Biology course; permission of instructor

Corequisites: PSYB60; PSYB61 and PSYB08 are recommended

Session: Winter Day

PSYB65F Biological Foundations of Behaviour / T. Petit

Students with prior credit for PSYB60 may not take PSYB65 for credit. The course examines the structural and physiological basis of behaviour. It is geared towards non-biologically oriented students.

The structure and function of the nervous system are covered sufficiently to allow the student an understanding of the basis of human behaviour. Once these basic fundamentals are covered the course then focuses on the following: disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, senility, mental deficiency and speech disorders); drugs of use and abuse (stimulants, depressants, and hallucinogens); and the biological basis for violence, schizophrenia, depression, psychosis and anxiety. The teaching method is three hours lecture weekly. There are two exams: mid-term and comprehensive final, worth 50% each.

Exclusion: PSYB60

Prerequisite: PSYA01 or permission of instructor

Session: Winter Day

PSYC15S Current Topics in Social Psychology / J. Bassili

An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 25.

The course will review the development of important theoretical and empirical approaches to the study of social perception. These will include the "New Look" approach, impression formation, attribution theory, and the perception of emotions and of social interaction. The teaching method is lectures and discussions. Evaluation consists of two one-hour examinations; one term paper.

Prerequisites: PSYB12 or PSYB10 plus permission of instructor

Session: Winter Day

PSYC20S Current Topics in Developmental Psychology / M. Tierney

An intensive examination of selected issues and research problems in developmental psychology. Limited enrolment: 25.

The specific content will vary from year to year with the interests of both instructor and students. The teaching method consists of lectures, discussions, and oral presentations by students. The method of evaluation is to be announced.

Prerequisite: PSYB20

Session: Winter Day

PSYC22S Socialization Processes / K. Dion

Covers the processes by which an individual becomes a member of a particular social system (or systems). The course examines both the content of socialization (e.g. development of specific social behaviours) and the context in which it occurs (e.g. family, peer group, etc.). Material will be drawn from both social and developmental psychology. Limited enrolment: 25.

The teaching method consists of lectures and discussion. Evaluation consists of essay examination; student presentation.

Prerequisites: PSYB10, PSYB20

Session: Winter Day

PSYC30S Current Topics in Personality and Motivation / A. Kukla

An intensive examination of selected issues and research problems in the areas of personality and motivation. Limited enrolment: 25.

The specific content will vary from year to year. Method of evaluation to be announced.

Prerequisite: PSYB30

Session: Winter Day

PSYC53S Current Topics in Human Information Processing / J.M. Kennedy

An intensive examination of selected issues and research problems in human information processing.

The blind and the deaf can alleviate their handicaps in many ways. For example, they can use their remaining senses in new ways, use simple devices to amplify perceptible signals, use signals transformed electrically and played onto the skin, employ Braille and speech vocoders and haptic pictures. What they are doing is taking advantage of perceptual tools and perceptible displays. This course will examine groundbreaking research on ways of assisting the handicapped, and search for general principles governing prosthetics and perception. The teaching method is a seminar. Evaluation will be by short essays (35%), a longer essay (60%), and 5% for class participation.

Prerequisites: A PSYB50-series course other than PSYB50; permission of instructor

Session: Winter Day

PSYC56F Computers in Psychology / C. MacLeod

Examination of the widespread impact of computers on modern psychology. The course begins with a discussion of the machine (hardware) and programming languages (software), and proceeds to using computers to collect and analyze data, as well as to formulate and test theories through simulation. Students will be given "hands-on" experience using a laboratory computer. Limited enrolment: 20.

The teaching method will consist of one two-hour lecture and one one-hour discussion weekly. Students will be expected to do quite a large amount of reading in preparing for each of the four components of final evaluation: (a) an essay-format mid-term (25%), (b) an essay-format final (noncumulative - 25%), a class presentation of a particular simulation (25%), and an experimental programme to collect and analyze the data for a particular experiment (25%).

Prerequisite: PSYB52; courses in computer programming would be useful

Session: Winter Day

PSYC60F Current Topics in Comparative and Physiological Psychology / T. Petit

An intensive examination of selected issues and research problems in comparative and physiological psychology.

The course covers the development of the nervous system and correlated behaviour from conception to death. The major emphasis will be on prenatal brain development, and factors governing its normal or abnormal growth. The other end of the developmental spectrum, the aging brain will also be considered, including the biological problems and theories of aging on the brain. Students will be required to work 3-4 hours per week in a practicum situation, working with either mentally retarded, autistic, or hyperactive children, with aged or senile adults, or with experimental laboratory animals. There will be two hours of lecture per week throughout the term. There will be a mid-term and final exam on the lectures and reading material, worth 45% each of final mark. Ten percent of the mark will be from evaluation of the student's performance in class and particularly in the practicum setting.

Prerequisite: PSYB60; permission of instructor

Session: Winter Day

PSYC90F/S/H

PSYC93F/S/H Supervised Study in Psychology / Supervision by a faculty member

A reading or research project.

These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in a field where these are available. The student must demonstrate that his or her background is adequate for the project proposed and should present a clear rationale to prospective supervisors. Frequent consultation with the supervisor is necessary and extensive library research and/or data collection will be required. Such a project will normally culminate in a written submission but other bases of evaluation may also be determined by the supervisor. There is no final examination.

Prerequisites: Three full-course equivalents in Psychology; permission of instructor

Session: Winter Day, Winter Evening

PSYC98Y Thesis in Psychology / Coordinator: K. Dion

This course is intended to offer to qualified students the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. During the course of the year, at appropriate times, students will meet to present their own research proposals, to appraise the proposals of others and to discuss the results of their investigation.

Students will meet as a group with the coordinator as well as individually with the supervisor. The final grade will depend on all aspects of the student's performance including the quality of the written thesis which will be read by both supervisor and coordinator.

Prerequisites: Satisfactory completion of fifteen full-course equivalents in any discipline but including PSYB07; one laboratory half-course in Psychology and two additional full-course equivalents in Psychology; consent of a faculty member in Psychology to serve as research supervisor

Corequisite: PSYB08 recommended

Session: Winter Day

PSYCHOLOGY COURSES NOT OFFERED in 1980-81

PSYB12F Advanced Social Psychology

Prerequisites: PSYB10

PSYB45 Behaviour Modification: Origins and Application

Prerequisite: PSYA01

PSYB52S Human Information Processing

Prerequisites: PSYB50, PSYB07 or STAB57 (MATB57), PSYB09

PSYB56 Man and Machines

Prerequisites: PSYA01 or (PSYA02); quantitative skills such as are required in PSYB07, or PSYB09 are an advantage

PSYB70S Comparative Psychology

Prerequisite: PSYA01 or (PSYA02)

PSYC34 Phenomenological Psychology

Prerequisite: Three B-level half-courses in Psychology

PSYC40 Current Topics in Animal Learning

Prerequisite: PSYB40

PSYC52 Structures in Psychology

Prerequisites: PSYB07 or STAB57 (MATB57) or PSYB09; PSYB20 or PSYB51; permission of instructor.

PSYC80 Philosophy and Psychology

Prerequisites: Three B-level half-courses in Psychology and one B-level half-course in Philosophy

PSYC85F History of Psychology

Exclusion: (PSYC35)

Prerequisites: PSYA01 or (PSYA02); two B-level half-courses in Psychology

QUATERNARY STUDIES

Major Programme in Quaternary Studies

Supervisor: B. Greenwood

The Quaternary Period embraces the last two million years of Earth history. Major climatic changes which occurred during this time resulted in repeated expansion and recession of continental and montane glaciers, alternating wet and dry periods in low latitudes, marked fluctuations in sea level, development of ephemeral but often large inland seas and proglacial lakes, etc...

These dramatic changes have strongly influenced the distribution and, to an extent, the forms of plant and animal life on earth today. Among these are the Hominids whose appearance and development coincides with the Quaternary.

Detailed reconstruction of Quaternary environments - involving both the physical and biological components of the landscape - and their placement in a historical context is clearly an interdisciplinary task. Such studies bring together the Quaternary geologist, physical geographer, historical ecologist,

paleoanthropologist, archaeologist and many others. In this Programme the student will develop experience in the multidisciplinary approaches used in studying the Quaternary as well as specialist expertise in one or more of the sub-disciplines.

The Programme consists of seven courses, two of which are required: QUAA03Y and QUAB02Y. Both reflect the interdisciplinary nature of Quaternary Studies and are presented by faculty from Scarborough College and occasionally from other parts of the University who are involved in Quaternary research. Of the remaining five courses required, the student is given a wide choice but is nevertheless expected to develop expertise in one (or more) of the sub-disciplines by following a sequence of A and B- or C-level courses noted below.

A-Level	QUAA03Y (NSCA03)	Ice Ages and Human Ecology
	plus at least two of:	
	ANTA01Y	Introduction to Anthropology
	BIOA03Y	Introductory Biology
	GGRA05Y	Introduction to Physical Geography
	GLGA01Y	Planet Earth: an Introduction to Geology
B & C-Level	QUAB02Y (NSCB02)	Quaternary Environments and Man
	plus at least three full-course equivalents from:	
	ANTB26Y	Introduction to Prehistoric Archaeology
	or	
	ANTB11F	Pleistocene People
	and	
	ANTB12S	Prehistory of the Holocene
	ANTB14Y	Human Evolution
	BIOB12Y	Fundamentals of Ecology
	BIOB39B	Biogeography
	BIOC11Y*	Quaternary Plant Ecology
	GGRB07Y*	Geomorphology: The Pleistocene Epoch
	GGRC25S*	Sedimentary Models
	GGRB03Y	Climatology

* The student should note that prerequisites for these courses are not included in the Quaternary Studies Programme.

QUAB02Y Quaternary Environments and Man / B. Greenwood (Co-ordinator)

An interdisciplinary course dealing with the physical, biological and cultural events and processes of the Quaternary Period. Following a detailed consideration of the methodology of Quaternary investigations, the course takes up a series of regional case studies focusing on the reconstruction of paleoenvironments and human adaptations at various stages in the Period.

One two-hour lecture per week and one three-hour laboratory on alternate weeks.

Prerequisites: QUAA03 (NSCA03) or permission of instructor

Session: Winter Day

COURSES NOT OFFERED in 1980-81

QUAA03Y Ice Ages and Human Ecology

RENAISSANCE STUDIES

These Programmes are for students who wish to study the various cultural aspects of the period known as the Renaissance. Their nature is interdisciplinary, and they necessitate learning the methods of more than one discipline. Many of the courses (those with an asterisk) require prerequisites within the disciplines that offer them, and the student is advised to plan his Programme carefully so that he does not choose more courses with prerequisites than he can qualify for. For example a student who plans to take ITAB32F/S, ITAB33S or ITAB34F/S should note that ITAB01Y or ITAB11Y is a prerequisite to those courses, and plan his programme accordingly. The student should also note that some of the normal prerequisites can be waived for students in these Programmes. (It will be noted that courses on the St. George campus are also listed. The student, must, however, take the majority of his courses at Scarborough College - see p.00.)

Specialist Programme in Renaissance Studies

Supervisor: E.P. Vicari

Students must complete ten full-course equivalents, two from each of the following categories:

(1) Background

The student must take one full-course equivalent from (a) and one from (b) and one other from either (a) or (b).

- | | | |
|----|----------|---|
| a) | HISB06Y | Europe in the Middle Ages |
| | HISB13Y* | Europe in the Reformation Era, 1500-1600 |
| | HISB23Y* | Tudor and Stuart England |
| | HISC12Y* | The Renaissance in Europe, 1350-1550 |
| | HISC14Y* | The European Mentality in the Early Modern Period (1500-1700) |
| | HIS357Y | The Renaissance |
| | HIS230Y | Politics and Social Change in England, 1530-1600 |
| | HIS243H | Early Modern Europe (1540-1648) |
| | HIS303H | The Italian Renaissance |
| | HIS349Y | Renaissance and Baroque France, 1500-1600 |
| | HIS433Y* | Topics in Tudor Social History |
| | ECO303Y* | The Dynamics of European Economy, 1350-1750 |
| b) | HUMA11Y | Greek and Roman Mythology |
| | REL106Y | Basic Christian Beliefs |
| | REL206Y | Reformation in the 16th Century |
| | REL232Y | Christianity: Middle Ages and Renaissance |
| | REL320Y | The Mythological Framework of Western Culture |
| | PHLB44F | Philosophers of the Middle Ages I |
| | PHLB45S | Philosophers of the Middle Ages II |
| | PHLB40F | Plato and His Predecessors I |
| | PHLB41S | Plato and His Predecessors II |
| | PHLB42F | Aristotle I |
| | PHLB43S | Aristotle II |
| | PHLB46F | Philosophy of the Early Modern Age |
| | PHI105Y | Philosophy in Western Culture |
| | GLL230Y | Greek and Roman Philosophy |
| | PHL200Y | The Birth of Western Philosophy (Plato and Aristotle) |
| | PHL268H | Political Theories: Ancient and Medieval |
| | POLB70Y | Political Thought from Plato to Locke |

(2) Fine Art, Music and Drama

The student must take two of FARB23F, FARB32F and FARC09F, and two additional full-course equivalents from this group.

- | | |
|----------|--|
| FARB16S | The Arts of Northern Europe, 1400-1475 |
| FARB15F | Renaissance in Italy |
| FARB19F | Studies in the High Renaissance - Michelangelo |
| FARC09F* | Studies in the High Renaissance I |
| MUSB04F | Music of the Renaissance |
| MUSB15F* | Music in Elizabethan England |
| MUS301H* | Early Music |
| DRAB12B | Medieval and Early Tudor Drama |
| FAH200Y | European Art from 1400-1750 |

(3) Language and Literature

The student must take three full-course equivalents in literature, one of which at least must be in a language other than English. In addition to the three literature courses, therefore, he may have to satisfy prerequisites in language, from those listed below.

Prerequisites in French:

- FREB06Y Language Practice I
One B-level course in French, not B11F, B12S, or B14S.

Prerequisites in Italian:

- ITAA01Y or A11Y or Grade 13 Italian
ITAB01Y or B11Y

Prerequisites in Spanish:

SPAA01Y or Grade 13 Spanish

SPAB01Y

SPAB03S

Courses in the literatures:

- | | |
|------------|--|
| ENGB09Y* | Poetry and Prose of the English Renaissance |
| ENGB10Y | Shakespeare |
| ENGB12Y* | English Drama to 1642 |
| ENGC04Y* | Studies in the Renaissance |
| ENGC10F* | Problems in Later Shakespeare |
| FREC25Y* | Literature of the Renaissance |
| FRE461Y* | Baroque and Mannerism |
| ITAB31Y* | Dante and Medieval Culture |
| ITAB32F/S* | Petrarch and Boccaccio |
| ITAB33S* | Machiavelli and Aspects of the Italian Renaissance (Exclusion: HUMB50S) |
| ITAB34F/S* | The Renaissance Epic |
| ITAB35F/S* | Italian Sixteenth-Century Theatre |
| ITAB36F/S* | Lyric Poetry of the Renaissance |
| ITAB40F/S* | Reformation and Baroque Literature |
| HUMC10H* | Humanities Seminar |
| HUMB33Y | World Visions from the Late Middle Ages to the Renaissance |
| HUMB50S | Machiavelli and Aspects of the Italian Renaissance (in translation) (Exclusion: ITAB33S) |
| SPAB24F* | Golden Age Drama |
| SPAB26S* | Golden Age Poetry |
| SPAB37S* | The Literature of the Spanish Mystics |
| SPA350Y* | Golden Age Literature |
| VIC342Y | Renaissance Italian Literature in Translation |

Major Programme in Renaissance Studies

Supervisor: E.P. Vicari

Students must complete seven full-course equivalents from the following list:

(1) Background

Two full-course equivalents from the following:

- | | |
|----------|---|
| HISB13Y* | Europe in the Reformation Era, 1500-1650 |
| HISC12Y* | The Renaissance in Europe, 1350-1550 |
| HISC14Y* | The European Mentality in the Early Modern Period (1500-1700) |
| HIS357Y | The Renaissance |
| HUMA11Y | Greek and Roman Mythology |
| REL106Y | Basic Christian Beliefs |
| REL206Y | Reformation in the 16th Century |
| REL232Y | Christianity: Middle Ages and Renaissance |
| REL320Y | The Mythological Framework of Western Culture |
| PHLB44F | Philosophers of the Middle Ages I |
| PHLB45S | Philosophers of the Middle Ages II |
| PHLB40F | Plato and His Predecessors I |
| PHLB41S | Plato and His Predecessors II |
| PHLB42F | Aristotle I |
| PHLB43S | Aristotle II |
| PHLB46F | Philosophy of the Early Modern Age |
| PHI105Y | Philosophy in Western Culture |
| GLL230Y | Greek and Roman Philosophy |
| PHL200Y | The Birth of Western Philosophy (Plato and Aristotle) |
| PHL268H | Political Theories: Ancient and Medieval |
| POLB70Y | Political Thought from Plato to Locke |

(2) Fine Art, Music and Drama

Two full-course equivalents from the following:

FARB15F	Renaissance in Italy
FARB16S	The Arts of Northern Europe, 1400-1475
FARB19F	Studies in the High Renaissance II - Michelangelo
FARC09F*	Studies in the High Renaissance I
MUSB04F	Music of the Renaissance
MUSB15F*	Music in Elizabethan England
MUS301H*	Early Music
DRAB12B	Medieval and Early Tudor Drama
FAH200Y	European Art from 1400-1750

(3) Language and Literature

Three full-course equivalents from the list under (3) of Specialist Programme.

RUSSIAN

Discipline Representative: S. Whalen

The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. *All Russian literature courses, with the exception of RUSC01Y, C02F, C03S, C04H, C05Y, are taught in translation and are open to non-specialists.*

College Programme in Russian and Related Studies

Supervisor: S. Whalen

This Programme is designed for students interested in Russia and East Europe. In a world in which Russia and the socialist countries of Eastern Europe play such an important role, a Programme in Russian and Related Studies can do much to promote a better understanding between East and West, in academic, governmental, industrial, journalistic and other fields.

The Programme is aimed at two different groups of students: first, those whose main interest is a detailed knowledge of the area with a view towards concentrating in Russian language and literature or Russian and Soviet history, political science or economics; second, those interested in a general knowledge of the area as a complement to some other field of study.

The Programme requires the completion of ten full-course equivalents, one of which must be at the C-level:

- (1) Two consecutive courses in Russian language from RUSA10Y, RUSB02Y, RUSC05Y.
- (2) Four courses to be chosen from the following three groups and to include one from each group:
 - (a)

RUSB11Y	The Nineteenth Century Russian Novel
RUSB21Y	The Twentieth Century Russian Novel
RUSB23Y	Soviet Russian Underground Literature from the 1920's to the Present
RUSC01Y	Twentieth Century Russian Poetry
 - (b)

HISB07Y	Russia from the Thirteenth Century to the Present
HISC78Y	The Russian Intelligentsia
 - (c)

POLB86Y	Soviet Government and Politics
ECOA01Y	Introduction to Economics
- (3) Four further full-course equivalents to be chosen from (2) or from the following list and to be approved by the Supervisor:

RUSA01Y	Introduction to Russian Culture
RUSB16Y	The Fiction of Leo Tolstoy
RUSB24F	The Russian Symbolist Novel
RUSB25Y	Post-1945 Soviet Russian Literature
RUSC05Y	Supervised Reading
HISB18Y	Europe under the Enlightened Despots
POLC85Y	Comparative Communism
ECOB68S	Comparative Economic Systems
ECOC07F	The Economics of Karl Marx

PHLB12F	Marx and Marxism
PHLB17S	Anarchism
HUMB44F	Disaster and the Literary Imagination
HUMB13Y	The Russian Revolution of 1917
HUMB42S	Dostoevsky and the West

Overseas Programme

Students in the Russian and Related Studies Programme, after completing their second year of Russian language study, become eligible to apply to go to the Pushkin Institute of Russian Language and Literature in Moscow, USSR as participants of the Russian Studies Programme at Dalhousie University in Nova Scotia.

Each year some twelve Canadian students are selected by Dalhousie to spend four months studying Russian in Moscow (February - May). The programme involves 4 1/2 hours of intensive instruction per day by Soviet staff; students are housed three to a suite at the University Hotel; late afternoons and evenings are free for cultural and other activities. The cost, which covers air transportation Montreal-Moscow return, tuition, texts, room and board, is \$2,500.

Before applying to Dalhousie, and in order to improve their chances, interested students are encouraged to undertake some additional Russian language study either in the Scarborough Language Institute at the College, or in a Fall supervised reading course.

For information consult the Supervisor.

Major Programme in Russian Language and Literature

Supervisor: S. Whalen

The Programme consists of seven full-course equivalents:

- (1) Two consecutive courses in Russian Language from RUSA10Y, RUSB02Y, RUSC05Y
- (2) Five further full-course equivalents to be chosen from:

RUSA01Y, RUSB11Y, RUSB21Y, RUSB23Y, RUSB24F, RUSC01Y, RUSC04H, RUSC03S, HUMB02F, HUMB31Y, HUMB42S

Students must include at least one full-course equivalent at the C-level

See also the Specialist Programme in Language and Literature.

RUSA01Y Introduction to Russian Culture from the Tenth Century to the Present / *Coordinator:* N. Kosachov; other faculty involved: E.W. Dowler, T. McGee, C.V. Ponomareff, M. Schonberg, S. Whalen

The course aims to give students a wide appreciation of Russian culture.

Beginning with a general introduction to the history of Russia, students will be able to familiarize themselves with the history of language (Old and Modern Russian in a comparative context); medieval and modern art; the folklore, handicrafts and literature of the pre-Petrine period and literary development from the eighteenth century to the present; the history of the Russian theatre; music and dance. A number of selected films will be shown. Two-hour seminar per week. Evaluation is based on two essays and a final examination.

Session: Winter Day

RUSA10Y Introductory Russian / *N. Kosachov*

Fundamentals of Russian grammar, with emphasis on comprehension and reading, writing and conversation.

The course is designed to introduce the student to the Russian language: reading, writing, elementary grammar, basic comprehension and conversation. Starting with the Cyrillic alphabet, students will study inflections, conjugations, the aspectual system and word order. Equal emphasis is given to written and oral drills. In addition to structural oral work in laboratory and class, free conversation based on material read is encouraged. There are four class hours, in addition to which the student is expected to spend one hour in the language laboratory. The textbook used is Galina Stilman and others, *Introductory Russian Grammar*, Xerox College Publishing. Evaluation is on the basis of tests, class performance, homework, and final examination.

Session: Winter Day

RUSA10B Introductory Russian / N. Kosachov

This intensive course is designed for credit or non-credit students beginning their study of Russian. The class meets daily, Monday to Friday, for four hours over six weeks of supervised instruction, covering the comprehension and active use of the language. The textbook used is Galina Stilman and others, *Introductory Russian Grammar*, Xerox College Publishing. Evaluation is on the basis of tests, class performance, homework, final examination.

Session: Summer Day

(see 1980 Summer Courses and Programmes Brochure)

RUSA11S Elementary Conversation

This intensive one-half credit course is designed for credit or non-credit students beginning their study of Russian. The class meets daily, Monday to Friday, for two hours over six weeks of supervised instruction. Structured and free conversational practice is based on a selection and reading of easy fictional and non-fictional texts. Students registering for this course must have RUSA10B as a corequisite course.

Exclusion: RUSB02

Corequisite: RUSA10B

Session: Summer Day

(see 1980 Summer Courses and Programmes Brochure)

RUSB02Y Intermediate Russian / S. Whalen

Expanded study to increase ability in speaking, writing and reading Russian.

A study of Russian morphology involving translation, composition, selected reading in the original and conversation. The course meets four hours a week in two intensive two-hour sessions plus additional language laboratory practice. The textbooks used are: P.A. Davis and D.V. Oprendeck, *Making Progress in Russian*, Xerox, 1973; S. Khavronina and A. Shiroshenskaya, *Russian in Exercises*, Progress; S. Khavronina, *Russian as we speak it*, Progress. Selection of texts for reading chosen according to the particular interest of students. A final examination accounts for at least one-third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation.

Exclusion: RUSA11

Prerequisite: RUSA10 or completion of Grade 13 Russian

Session: Winter Day

RUSB02B Intermediate Russian / O. Hassanoff

This intensive course is designed for credit or non-credit students who have already acquired a basic understanding of Russian. The class meets daily, Monday to Friday, for three hours over six weeks of supervised instruction, which will include the active use of grammar and work in translation. The textbook used is P.A. Davis and D.V. Oprendeck, *Making Progress in Russian*, Xerox, 1973. Translation work is based on P. Henry, *Modern Russian Prose Composition*, Book One, University of London Press, 1963. Evaluation is based on class work, one weekly test and a final examination. A placement test may be administered to students registering for credit.

Prerequisite: Grade 13 Russian or a comparable introductory course

Session: Summer Day

(see 1980 Summer Courses and Programmes Brochure)

RUSB03S Intermediate Conversation

This intensive one-half credit course is designed for credit or non-credit students who have already acquired a basic understanding of Russian. The class meets daily, Monday to Friday, for two hours over six weeks of supervised instruction. Although it can be taken separately, the extensive practice in spoken Russian, which is based on free and structured discussions of a variety of contemporary issues and materials, is intended to complement work done in RUSB02B.

Session: Summer Day

(see 1980 Summer Courses and Programmes Brochure)

RUSB11Y The Nineteenth Century Russian Novel / C. Ponomareff

A study of the Russian novel of the nineteenth century. Course offered in translation. Works read include A. Pushkin's *The Tales of Belkin*, M. Lermontov's *A Hero of Our Time*, N. Gogol's *Dead Souls*, I. Goncharov's *Oblomov*, I. Turgenev's *Fathers and Sons*, F. Dostoevsky's *Crime and Punishment*, L. Tolstoy's *Anna Karenina* and N. Leskov's *Cathedral Folk*.

Two hours per week lecture and discussion. Evaluation based on two minor papers, class participation and final examination.

Exclusion: HUMB31

Session: Winter Day

RUSB23Y Soviet Russian Underground Literature from the 1920's to the Present / C. Ponomareff

Course offered in translation. A study of the characteristics of Russian novels and short stories not published in the Soviet Union, as well as of other works published in heavily censored editions.

Discussion of the reasons why this literature is unacceptable to the communist state. Focus will also be on the dissident movement of the sixties and its legal and political implications. Authors dealt with are Zamyatin, Bulgakov, Pasternak, Tertz, Solzhenitsyn and others. Films, tapes and records will be used.

Two-hour seminar per week. Evaluation is based on one major essay and final examination.

Session: Winter Day

RUSC02F**RUSC03S****RUSC04H****RUSC05Y Supervised Reading / Staff**

These supervised reading courses are designed for individual or very small groups of students who would like to pursue specific projects in Russian language and/or literature. Classes usually meet every other week for a two-hour session and students engaged in a literary project are expected to produce a paper in their area of study.

Prerequisite: RUSB02

Session: Winter Day or Winter Evening

RUSSIAN COURSES NOT OFFERED in 1980-81**RUSB16Y The Fiction of Leo Tolstoy****RUSB21Y The Twentieth Century Russian Novel****RUSB24F The Russian Symbolist Novel****RUSB25Y Post-1945 Soviet Russian Literature****RUSC01Y Twentieth Century Russian Poetry**

Prerequisite: RUSB02

SOCIOLOGY

Assistant Chairman: J.A. Lee

Sociology is the scientific study of interaction among people, the social relations which they establish, and the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.

Students may wish to take Sociology courses as a part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist or Major programme.

The introductory course, SOCA01, is intended to familiarize students with the special theories, methods and questions of sociology as a part of a liberal education. In addition, the A01 course provides minimum background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.

Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide formal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.

The faculty advisers for special areas of concentration are:

Social Work - Prof. R.L. James

Urban Studies - Prof. J. Hannigan

Science and Medicine - Prof. M. Hammond

Business and Government Administration - Prof. N. Howell

Law and Law Enforcement - T.B.A.

Education - Prof. J.A. Lee

Specialist Programme in Sociology

Supervisor: S. Ungar

The Programme requires completion of eleven and one-half full-course equivalents as described below. No more than fourteen full-course equivalents in Sociology may be included in the four-year degree.

- (1) SOCA01Y Introduction to Sociology
- (2) SOCB01Y Methods of Research
- (3) SOCB06F/S Social Statistics
- (4) SOCB03Y History of Social Thought
- (5) SOCC05Y Contemporary Social Thought
- (6) One full-course equivalent in a macrostructural field at the B-level. Any one of SOCB04Y, SOCB05Y, SOCB10Y, SOCB13Y, SOCB14Y, SOCB15Y, SOCB16Y, SOCB20Y, SOCB23Y or JCSB27Y.
- (7) One full-course equivalent in a microstructural field at the B-level. Any one of SOCB02Y, SOCB07Y or SOCB08F/B09S.
- (8) Two full-course equivalents from the C-level offerings from the courses numbered C01 to C29 inclusive.
- (9) One full-course equivalent from the C-level offerings: SOCC40F/S, SOCC41F/S, SOCC42F/S or SOCC43F/S.
- (10) Two full-course equivalents from disciplines other than Sociology to be agreed upon in consultation with the Supervisor.

Major Programme in Sociology

Supervisor: S. Ungar

The Programme requires completion of six full-course equivalents in Sociology including:

- (1) SOCA01Y Introduction to Sociology
- (2) One of the macrostructure courses at the B-level: B04Y, B05Y, B10Y, B13Y, B14Y, B15Y, B16Y, B20Y, B23Y or JCSB27Y
- (3) One of the microstructural courses at B-level: B02Y, B07Y, B08F/09S
- (4) One full-course equivalent at the C-level in Sociology
- (5) Two other B- or C-level full-course equivalents following the usual prerequisite rules applying to the chosen course. (e.g. C-level macrostructure follows from B-level macrostructure).

SOCA01Y Introduction to Sociology / R.L. James, S. Ungar, D. Grafstein

An introduction to the basic concepts, principles and methods of sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behaviour, population, community, stratification, social institutions and social change.

Session: Winter Day, Winter Evening, Summer Day

SOCB01Y Methods in Social Research / N. Howell

The course will be divided into three basic units. It will start with a critical overview of the logic and methods of social scientific research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to "read" and critically evaluate research reports. Several studies will be examined in detail, and then students will be given the opportunity to do their own evaluations. The final goal will be to provide some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ data to test hypotheses.

Prerequisite: One full-course equivalent in Sociology

Corequisite: SOCB06

Session: Winter Day

SOCB02Y Structure of Interpersonal Relations / S. Ungar

The course will focus on patterns of interaction and influence in interpersonal relations. It begins with consideration of the problem of social order; i.e., how do we constrain individual desires and induce people to act morally. We will also examine the problem of the "absurd", using Camus' *Outsider*. This will be followed by an examination of impression management and exchange theories. Special attention will be given to the role of other persons in "altercasting" our behavior, with examples drawn from research on mental illness and stereotyping. Other topics include status and power relations in small groups, social influence processes, and the social psychology of class, sex and race relations.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day

SOCB03Y History of Social Thought / M. Hammond

This course will study the development of sociology and the works of sociologists whose ideas have historical interest and contemporary relevance. It begins with a basic discussion of the nature of sociological theory and a short look at ideas on society in Greek, Roman, and Medieval times. It will then analyze the rise of modern social theory in the nineteenth and early twentieth centuries in the work of theorists such as Marx, Durkheim, Spenser, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day, Summer Day

SOCB04Y Political Sociology

Specific topics include a review of social and political theories; major political ideologies; political development and emergence of modern nation-state; political action (political protests, revolutions and wars of independence). The course will examine a number of contemporary issues such as the question of national unity, labour and politics, wage and price control, immigration law etc.

Prerequisite: One course in Sociology

Session: Winter Day

SOCB05Y Urban Sociology / J. Hannigan

Specific topics include a review of theories of urban genesis and urban form, interrelationship of urbanization, industrialization and modernization, issues in urban living (housing, transportation, urban-renewal, poverty, unemployment etc.), urban social net-works (ethnic and cultural heterogeneity, neighbourhood, community and other voluntary associations).

Prerequisites: One full-course equivalent in Sociology

Session: Winter Day, Winter Evening

SOCB06F Social Statistics / S. Ungar

Statistics is a basic tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. The course will consider elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of common statistical tests. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as the need arises. This course is intended to complement SOCB01.

Exclusion: PSYB07, ECOB11

Prerequisites: One full-course equivalent in Sociology

Corequisite: SOCB01

Session: Winter Day,

SOCB08S Sociology of the Family as a Group / R. James

The sociological study of the family in contemporary Western society. This course will focus on the family as a small group, emphasizing the family life cycle, member roles, interaction, patterns and interpersonal problems in the family relationships.

Exclusion: SOCB12

Prerequisite: SOCA01

Session: Winter Day

SOCB09F Sociology of the Family as an Institution / R. James

This course will examine the family in its community, institutional and historical setting, emphasizing various social factors which will affect family life and its changing nature.

Exclusion: SOCB12

Prerequisite: SOCA01

Session: Winter Day

SOCB10Y Social Class and Social Stratification / J.-L. deLannoy

Description and analysis of the nature of social stratification with emphasis on the basis of stratification; different theoretical views concerning stratification; the structure and function of stratification systems, social classes and associated behaviour; social mobility; and class conflict.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day

SOCB13Y Canadian Society / J.-L. deLannoy

An examination of the context, structure, and development of Canadian society. Special consideration will be given to current issues such as control of energy resources, the future of Quebec and the question of a distinctive national identity.

Prerequisite: One course in Sociology

Session: Winter Day

SOCB14Y Comparative Social Structure / J.-L. deLannoy

An examination of the institutional structure in different societies in order to develop a better understanding of the effects of structural variations on human behaviour.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Evening

SOCB15Y Sociology of Mass Media and Communications / J. Hannigan

The study of the social organization of the mass media - radio, TV, newspapers, magazines and trade publications - and of the effects of the contents of mass communications on the general public.

Exclusion: SOCC14

Prerequisite: SOCA01

Session: Winter Day

SOCB16Y Social Change / J.-L. deLannoy

A sociological analysis of forms of change, such as industrialization, modernization, urbanization and their consequences for the structure and function of contemporary society.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day

SOCB17S Medical Sociology / M. Hammond

Designed to meet the needs of Natural Science students as well as Social Sciences students, this course focuses on social factors in sickness and health, on the organization of health care services, and on alternatives to conventional medical care.

Session: Winter Day

SOCB18Y Sociology of Deviant Behaviour / R.L. Beals

Topics covered will include the analysis of the social processes by which behaviour is defined and treated as criminal, immoral, disgusting, sick or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant subcultures; specific categories of deviance, such as, crimes against persons, "victimless crimes"; mental illness, sexual deviation and alcoholism.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day, Summer Day

SOCB19Y Sociobiology / M. Hammond

This course will investigate the linkages between sociology and the sciences of biological evolution. It begins with an introduction to the basic principles of evolution in the natural sciences and a review of attempts by late nineteenth and early twentieth century theorists to link sociology to these sciences. The major part of the course will focus on the most recent attempts to apply an evolutionary perspective to the study of man. The course will consider such issues as the use of studies in non-human social organization as models for man's social activities; the potential addition of sociological ideas to research in the natural sciences; and the possibility of using man's evolutionary context of origin as a basis to test current theory in sociology and to construct new theory.

Session: Winter Day

SOCB20Y Ethnic and Race Relations / W.W. Isajiw

The course is concerned with the situations in which people in a society meet and mingle, the patterns of relations and behaviour that develop through frequent interaction, and the changes in perceptions, values, and attitudes that take place following such regular and protracted interaction. Specific topics to be discussed may include: the problem of stereotyping and prejudice; social mobility and "civil rights" movements as processes of change of ethnic status; maintenance of ethnic identity and conflict and continuity between ethnic generations; and societal integration especially as it bears upon the question of Canadian bilingualism and multiculturalism.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day

SOCB23Y Population / N. Howell

Population problems and processes in the modern world, stressing recent trends and their economic and social implications. Specific topics to be discussed may include: the social effects of baby booms and their aftermath in jobs and school enrolments; the changing age structure of populations and the anticipated effects of a larger number of older Canadians in the next several decades; the controversial questions of zero population growth and the relationship of world population to world food supply; the social implications of the single life and childless couples; the social impact of migration of populations, particularly immigration into Canada. Students will study appropriate demographic methods for understanding such problems in historical and comparative perspective.

Prerequisite: One full-course equivalent in Sociology or JCSB27

Session: Winter Day

SOCB24F Sociology of Education: Primary and Secondary Levels / J.A. Lee

The sociology of the classroom, peer group influences on school performance, social class and sub-cultural influences on students and teachers. The formal organization of school systems.

Exclusion: SOCC08

Prerequisite: SOCA01

Session: Winter Evening, Summer Day

SOCB25S Sociology of Education: University and Adult Levels / R.O'Toole

Allocation and training of upper-level students, and relationships of higher education to the occupational system. Problems of education or retraining of older adults.

Exclusion: SOCC08

Prerequisite: SOCA01

Session: Winter Day

JCSB27Y Organizational Behaviour / J. Hannigan

Examines social factors in administration, the structuring of intra-organizational and interorganizational relationships, and the distribution of power and dependency in society. Empirical studies used in the first term will focus on single organizations. Those used in the second term will focus on industries and other inter-dependent organizations.

Exclusions: (COMB27) (SOCB27)

Prerequisites: One previous full-course equivalent in Sociology, Commerce, Economics, or Political Science

Session: Winter Day, Winter Evening

SOCC03F Collective Behaviour / R. O'Toole

The study of "uninstitutionalized" group behaviour - crowds, panics, crazes, riots and the genesis of social movements.

Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course

Session: Winter Day

SOCC05Y Contemporary Social Theory / W.W. Isajiw

Basic questions underlying sociological thinking will be considered as they arise in the work of contemporary theorists and theoretical schools. Students will be expected to develop an informed, critical perspective on current debates within the discipline. Though not formally required, a previous course in social and/or political theory (e.g. SOCB03Y) would be a distinct asset.

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

Session: Winter Day

SOCC06F Applied Sociology

Use of sociological theory and methodology to clarify policy issues in organizations. Evaluation of agency services, assessment of community need or demand for services, analysis of unanticipated consequences.

Prerequisites: Two courses in sociology

Session: Winter Day

SOCC07S Sociology of Occupations and Professions

Within the context of the relevant sociological theories of Durkheim, Weber and Marx, the relationship of people to their work and their occupation is studied through the examination of particular occupations in industry, bureaucracy and the professions. Career choice and patterns, questions of satisfaction and alienation, and future changes and trends are analysed with special reference to the Canadian labor force.

Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course

Session: Winter Day

SOCC10F Sex, Self and Society / J.A. Lee

A sociological approach to the bases, establishment and maintenance of social differentiation based on sex, including a consideration of socialization and sex-typing, the division of labour, patterns of sexual behaviour, changing roles and protest movements.

Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course

Session: Winter Day

SOCC11S Sociology of Law and Law Enforcement

Studies of existing legal systems, the process of creation of legislation, court interpretation of law, and the law enforcement institutions.

Prerequisite: SOCB18

Session: Winter Day

SOCC13S Industrial Sociology / J. Hannigan

Comparative studies of industrial organization, considering scale, division of labour, organization of work teams, levels and forms of organization.

Prerequisite: One B-level full-course equivalent in Sociology (JCSB27 recommended)

Session: Winter Day

SOCC18Y Sociology of Art and Culture / J.A. Lee and J-L. deLannoy

A seminar on the organization, production and appreciation of art and culture in various societies. Lectures and discussions will focus on literature, film and painting, but students may choose any form of "high culture" for special research.

Exclusions: SOCC09 and SOCC18

Prerequisites: Two full-course equivalents in Sociology

Session: Winter Day

SOCC20Y Sociology of Religion / R. O'Toole

A sociological analysis of religion as a social institution. Consideration of the problem of a definition of the phenomenon; analysis of major theoretical and empirical contributions to the field; and investigation of the forms of religion in historical and contemporary contexts.

Exclusion: (SOCC20)

Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course

Session: Winter Day

SOCC21Y Sociology of Crime and Delinquency

An advanced course on behaviours which are labelled as criminal and delinquent.

Exclusions: (SOCC21 and SOCC23)

Prerequisite: SOCB28

Session: Winter Day

SOCC26S Sociology of Urban Growth / N. Howell

An in-depth examination of the conditions, patterns and consequences of urban growth and development. Major topics will include the emergence of new urban institutions (legal, political, economic) and the formation and operation of urban social networks.

Prerequisite: Two full-course equivalents in Sociology

Session: Winter Day

SOCC27F Social Class in Canadian Society

Specialized study of social class phenomena in contemporary Canadian Society, bringing to bear both current theory and research.

Prerequisites: Two full-course equivalents in Sociology

Session: Winter Day

SOCC29S Variant Family Forms / R.L. James

A review and sociological analysis of non-traditional family forms and innovative life styles representing departures from conventional marriage and family patterns in the 1970's. Included will be "singleness", "living together", androgyny as a life style, non-monogamous forms, voluntary childlessness, communes and co-operatives, and "swinging". Special reference to structural and functional dimensions, role changes, special problems and community response.

Prerequisite: SOCB08 and SOCB09

Session: Winter Evening

SOCC40F/S Supervised Independent Research / Staff

Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.

Prerequisites: Completion of fifteen full-course equivalents including SOCB01, SOCB03 and SOCB06. By permission of instructor only.

Session: Winter Day

SOCC41F/S Supervised Independent Research / Staff

Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.

Prerequisites: Completion of fifteen full-course equivalents including SOCB03, SOCB01 and SOCB06. By permission of instructor only.

Session: Winter Day

SOCC42F/S Advanced Seminar in Sociological Theory / Staff

Advanced Seminar in Sociological Theory. Special topics in contemporary social theory, designed as a final year course for students taking a Specialist Programme in Sociology.

Prerequisites: SOCB03, SOCB01, and SOCB06

Session: Winter Day

SOCC43F/S Advanced Seminar in Research Methods / Staff

Special topics in methodologies used in contemporary sociological research. Designed as a final year course for students taking a Specialist Programme in Sociology.

Prerequisites: SOCB03, SOCB01 and SOCB06

Session: Winter Day

SOCIOLOGY COURSES NOT OFFERED in 1980-81**SOCC07Y Small Groups**

Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course

SOCC11Y Sociology of Science**SOCC01F/S Sociology of Revolution**

Prerequisites: Two full-course equivalents in Sociology (SOCB14 and SOCB16 recommended)

SOCC02F/S Research on Small Groups

Prerequisites: SOCB02 or (SOCC01) or SOCB07 or PSYB10 or permission of instructor

SOCC04F/S Social Movements

Prerequisites: Two full-course equivalents in Sociology, including a B-level course

SOCC12F/S Mathematical Methods in Sociology

Prerequisite: Permission of instructor

SOCC16F/S Sociology of Conflict

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

- SOCC17F/S Social Change in the Third World**
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
- SOCC19F/S Sociology of Knowledge**
Prerequisite: SOCB03
- SOCC22F/S Qualitative Methods in Social Research**
Prerequisites: SOCB01 and SOCB06
- SOCC24F/S Changing Family Life in Canada**
Prerequisite: Two full-course equivalents in Sociology, one of which must be at the B-level
- SOCC25F/S Comparative Race Relations**
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
- SOCC28F Sociology of Aging**
Prerequisite: SOCB08, SOCB09

SPANISH

Discipline Representative: J.I. Chicoy-Dabán

Students enrolling in Spanish are offered a wide range of courses in the Spanish language and in Peninsular and Spanish-American literature.

Students who do not intend to take a Programme in Spanish are free to choose whichever courses they wish, provided that they have satisfied the relevant prerequisites. Students intending to enrol in the Major Programme in Spanish Language or in Spanish Language and Literature will find the requirements below.

Courses in Fine Art, History, Humanities, Linguistics, Philosophy, and in other languages and literatures, may prove valuable to these students as adjuncts to their plan of study or as an enrichment of their total programme.

Students intending to enrol in the Specialist Programme in Modern Languages or in the Specialist in Language and Literature should consult the listing in the Calendar.

It is important that students enrolled in Spanish, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, confer with the relevant Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled programme.

Major Programme in Spanish Language

Supervisor: J.I. Chicoy-Dabán

Seven full-course equivalents are required as follows:

- | | |
|-----------|--|
| LINA01Y | General Linguistics |
| SPAA01Y/A | Introductory Spanish (Note: Students who have Grade 13 Spanish must complete in place of SPAA01 one full-course equivalent from SPA courses which are not named in the programme.) |
| SPAB01Y/B | Intermediate Language |
| SPAC01Y | Advanced Language |
| SPAB04Y | Phonetics |
| SPAB12S | History of the Spanish Language I |
| HUMB15Y | The Civilization of Spain |
| or | |
| SPAB38Y | Topics in Latin American Culture and Literature |
| SPAB22F/S | History of the Spanish Language II |
| SPAB21F/S | Stylistics and Translation |

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of Spanish. Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

Major Programme in Spanish Language and Literature

Supervisor: J.I. Chicoy-Dabán

Seven full-course equivalents are required as follows (A01Y/A does not count towards Programme requirement):

1. SPAB01Y/B Intermediate Language
 SPAC01Y Advanced Language
 SPAB04F Phonetics
 SPAB12S History of the Spanish Language I
2. SPAB03S Pre-literary Examination of Texts
 HUMB15Y The Civilization of Spain
 or
 SPAB38Y Topics in Latin American Culture and Literature
 SPAB18Y Spanish Literature to 1700
 or
 SPAB19Y Spanish Literature from 1700 to Present
3. One half-course from each of the following areas:
 a) Medieval Literature: B35F/S, B36F/S, HUMC01F/S
 b) Golden Age Literature: B24F/S, B25F/S, B26F/S, B37F/S
 c) Modern Literature (Peninsular and/or Latin American): B13F/S, B17F/S, B27F/S, B29F/S, B30F/S, B33F/S

Information on the sequence and scheduling of these courses should be obtained from the Supervisor.

See also the Specialist Programmes in *Modern Languages* and *Language and Literature*.

SPAA01Y: L01 Introductory Spanish / R. Barta

A course in basic grammar and syntax, with instruction in spoken and written Spanish.

This course covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading and conversation. Regular class attendance and participation are essential. Three hours per week in lecture/tutorial format. Evaluation is based on class participation, written assignments, and final examination.

Exclusion: Grade 13 Spanish.

Session: Winter Day

SPAA01Y: L02 Introductory Spanish / P. León

A course in basic grammar and syntax, with instruction in spoken and written Spanish.

This course covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading, and conversation. Regular class attendance and participation are essential. Three hours per week in lecture/tutorial format. Evaluation is based on class participation, written assignments, and final examination.

Exclusion: Grade 13 Spanish

Session: Winter Day

SPAA01Y Introductory Spanish / K. Godde-Nijhowne

A course in basic grammar and syntax, with instruction in spoken and written Spanish.

Exclusion: Grade 13 Spanish
Session: Summer Evening (for further information see 1980 Summer Courses and Programmes brochure)

SPAB01Y Intermediate Spanish / J.I. Chicoy-Dabán

Review of grammar and syntax. Composition, translation and oral practice.

The compositions and translations will be done as homework as well as work in the classroom. One hour per week will be spent in oral practice. The final mark will be comprised of: a) a final examination (40%); b) compositions (20%); c) translations (20%); d) oral practice (20%).

Exclusion: SPAB02

Prerequisite: Grade 13 Spanish or SPAA01

Session: Winter Day and Winter Evening

SPAB03S Pre-Literary Examination of Texts / R. Barta

The basic elements of style with rapid reading and comprehension of texts of various periods. This is not a literature course, but one which provides training in the methodical analysis of literary texts from Spain and Latin America. Its purpose is to develop the critical skills on which the understanding and enjoyment of literature depend. Two lecture/tutorial hours per week. A further tutorial hour to be arranged. Regular attendance and class participation are essential.

Regular oral and written commentaries on assigned texts. Written term tests.

N.B. Since this course is a prerequisite for several Spanish literature courses, students are reminded that it should be taken in the same year as SPAB01.

Corequisite: SPAB01

Session: Winter Day

SPAB12S History of the Spanish Language I / J.I. Chicoy-Dabán

The languages of Spain, from pre-Roman times to the medieval period.

The objective of the course is to develop a basic understanding of how the Spanish language evolved from Latin, within the context of other Romance languages. A survey of the Pre-Roman, Visigothic, and Moorish civilizations in the Peninsula will be followed by an analysis of the characteristics of spoken Latin, as evidenced in non-Classical texts (inscriptions, glosses, etc.). The main segment of the course deals with the evolution of the sound- and form-systems of Latin into Peninsular Romance, focussing on the growth of the Castilian dialect. Class participation and discussion are encouraged. Three hours per week in lecture/tutorial format. Evaluation is based on written tests and a research assignment.

Prerequisite: SPAB04

Session: Winter Day

SPAB19Y Survey of Spanish Literature II / R. Barta

From the eighteenth-century to the present. Reading, analysis and discussion of major texts of Peninsular Spanish literature of the period. A continuation of SPAB18Y.

Lectures on background material. Areas of study will include representative texts from eighteenth-century Neo-Classicism, nineteenth-century Romanticism, Post-Romanticism, Realism and Naturalism. The late nineteenth and the twentieth centuries will be studied according to the concept of literary generations. Three lecture/discussion hours weekly. Class participation is essential. Evaluation is based on regular oral and written assignments and one paper.

Prerequisite: SPAA01

Session: Winter Day

SPAB26F Golden Age Poetry / J.I. Chicoy-Dabán

A study of the major poets of the Golden Age.

The course concentrates on the following main figures: Garcilaso de la Vega, Fernando de Herrera, Fray Luis de León, San Juan de la Cruz, Lope de Vega, Góngora, and Quevedo.

Three hours per week in tutorial format. Evaluation is based on class presentations, final examination, and term paper.

Corequisite: SPAB03

Session: Winter Day

SPAB29F Spanish American Literature: The Short Story / P. León

The history of the Spanish *cuento*.

Examination of short stories by Spanish and European authors in order to attempt a definition of the short story; reading, analysis and discussion of the various forms of the Spanish American short story. Two hours per week in lecture/tutorial format. Evaluation is based on written test and term paper.

Prerequisite: SPAA01

Session: Winter Day

SPAB30S The Novel of the Mexican Revolution / P. León

A study of the various types of novels written in Mexico from 1910 to the present time.

An attempt will be made to analyze the Mexican Revolution, firstly as a political and social event, with reference to other contemporary revolutions; and secondly, as a literary movement. Excerpts from various literary works will be read in order to gain an understanding of the different approaches to the revolutionary novel.

Two hours per week in lecture/tutorial format. Evaluation is based on written test and term paper.

Prerequisite: SPAA01

Session: Winter Day

SPAC01Y Advanced Spanish / J.I. Chicoy-Dabán

Intensive study of grammar and syntax; translation, composition, and oral practice.

Detailed examination of the subtleties of Spanish grammar through intensive practice in translation from and into Spanish, composition, and conversation. Three hours per week in lecture/tutorial format. The final mark will be comprised of: 40% for a final examination; 60% for compositions, translations, and conversation. Course required for Spanish Major, but open to all qualified students.

Exclusion: SPAB20

Prerequisite: SPAB01

Session: Winter Day

SPAC02F-C06F**CO7S-C10S****C11Y Supervised Reading / R. Barta, J.I. Chicoy-Dabán, P. León**

Students who wish to enter the Spanish Supervised Reading programme should enrol in any of the above courses (Y, F or S as appropriate). They should then contact a particular instructor in the discipline and discuss with him a proposed topic. Students should have sufficient background in the area they want to study more closely, and they should provide a rationale for choosing a specific topic. They will be expected to read much of the material on their own, and to meet with their tutor once a week. The exact arrangements will depend on the nature of the text and the level of ability of the students.

Specific topics in Peninsular Spanish and Latin American literature, linguistics and culture.

Prerequisites: SPAB03; one course in Spanish Literature

Session: Winter Day

See also the following courses offered under Humanities:

HUMB15Y The Civilization of Spain

HUMB45S The Spanish Civil War: Fact to Fiction

HUMC01S Lyric Poetry of the Middle Ages in the Mediterranean Area

SPANISH COURSES NOT OFFERED in 1980-81

SPAB04F Phonetics
Corequisite: SPAA01

SPAB13F Romanticism
Prerequisite: SPAA02

SPAB17F The Nineteenth-Century Spanish Novel
Prerequisite: SPAA01

SPAB18Y Survey of Spanish Literature I
Prerequisite: SPAA01

SPAB21F/S Stylistics and Translation
Prerequisite: SPAB03

SPAB22F/S History of the Spanish Language II
Prerequisite: SPAB12

SPAB24F Golden Age Drama
Exclusion: SPAB23
Prerequisite: SPAB01 for those majoring in Spanish. None for others.
Corequisite: SPAB03 for those majoring in Spanish. None for others.

SPAB25F Golden Age Prose
Prerequisite: SPAB03

SPAB27S The Poetry and Theatre of Garcia Lorca
Prerequisite: SPAB03

SPAB33F/S Spanish American Poetry 1880-1920
Exclusion: HUMB15
Prerequisite: SPAB03

SPAB35F/S Medieval Literature: Prose
Exclusion: SPAB22
Prerequisite: SPAB03

SPAB36F Medieval Poetry
Prerequisite: SPAB03 or (SPA003)

- SPAB37S **The Literature of the Spanish Mystics**
 Corequisite: SPAB03
- SPAB38Y **Topics in Latin American Culture and Literature**
 Prerequisite: SPAA01

STATISTICS

Staff member responsible for curriculum: M. Evans

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modelling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics, physics and many others.

Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling to the design and analysis of sophisticated experiments to determine the relative efficacies of different vaccines.

STAB52F and STAB57S serve as an introduction to the discipline. These courses are part of the Mathematics Specialist and Major Programmes. STAC52F and STAC67S build upon the introductory material to provide a deeper understanding of statistical methodology and of its practical implementation.

- STAB52F **Probability and Statistics I** / M. Evans
 STAB57S **Probability and Statistics II** / M. Evans
 STAC52F **Experimental Design** / M. Evans
 STAC67S **Regression Analysis** / M. Evans

For further information see under Mathematics.

COURSES NOT OFFERED IN 1981-82

- STAC52F **Experimental Design**
 Prerequisite: STAB57

4

Timetable

Key

Explanation of Suffixes, Y, A, B, F, S and H

- 'Y' A course taught throughout the session worth one full course credit.
- 'A' A course taught in the first term and worth one full course credit.
- 'B' A course taught in the second term and worth one full course credit.
- 'F' A course taught in the first term and worth one-half course credit.
- 'S' A course taught in the second term and worth one-half course credit.
- 'H' A course taught throughout the session and worth one-half course credit.

Explanation of M, T, W, R, F and T.B.A.

M, T, W, R, F - the days of the week with R denoting Thursday.

T.B.A. - denotes that the student is responsible for arranging time and/or room with the instructor for that course.

Explanation of Letters

- L - Lectures
- P - practical work in laboratories or studios (* denotes every other week)
- T - tutorials
- E - evening

Explanation of Lecture Section Numbers

01 etc. day sections
30 etc. evening sections

Tying of Sections

Some lecture, practical and tutorial sections must be taken as a 'package'. This means that the first two digits of the lecture, practical or tutorial section numbers must be the same, e.g. P0101 and T0102 must be taken with L01; and T3001 or T3002 must be taken with L30.

The reason for 'tying' sections is that the subject matter may differ from section to section. Many courses are 'untied' so it does not matter which practical or tutorial section is assigned with any particular lecture section. In such cases the first two digits of the practical or tutorial section number will be 00, eg. P0001 or P0002 and T0001 or T0002 may be taken with L01 or L02 or L03.

Rooms

Students will be advised of rooms for courses in May, for Summer Session courses, and September, for Winter Session courses.

Summer Session Courses, 1980

Monday 12th May: Classes for 'F' 'H' 'A' and 'Y' courses begin
Thursday 26th June: Classes for 'A' and 'F' courses end
Wednesday 2nd July: Classes for 'B' and 'S' courses begin
Friday 15th August: Classes for 'Y' 'B' 'H' and 'S' courses end

Key: MTWRF: days of the week with R as Thursday

Course No.	Course Title	Day and Time
ANTA01Y	Introduction to Anthropology	T&R7-10E
ANTB52A	Field Methods in Historical Archaeology	TBA
ANTC12F	Research on the Social Behaviour of Non-Human Primates	TBA
CHMC45Y	Library Thesis	TBA
CHMC46Y	Introduction to Research	TBA
CHMC47H	Library Thesis	TBA
COMA01Y	Financial Accounting	M&W7-10E
COMB01Y	Management Accounting	T&R7-10E
CSCA56H	Computer Programming	M7-9E W7-9E T3001
ECOA01Y	Introduction to Economics	M&W7-10E
ECOB03Y	Price Theory	T&R1-4
ECOB07Y	Macroeconomic Theory and Policy	T&R10-12
ENGA01Y	English Literature: Practical Criticism and Interpretation	M&W7-10E
ENGB15Y	English Poetry	T&R7-10E
GGRA04Y	The Nature of Human Geography	T&R7-10E
GGRB19B	General Geomorphology	MTWRF9-11
GGRC13S	Theoretical Approach to Political Geography	MTWRF9-11
HISB03Y	History of the United States	T&R7-10E
HISB07Y	Russia from the Thirteenth Century to the Present	M&W7-10E
MATA26Y	Calculus	T&R7-10E
PHLB60S	Existence & Reality	T&R7-10E
PHLB81F	Theories of Mind	T&R7-10E
POLB70Y	Political Thought from Plato to Locke	M&W7-10E
POLB87B	U.S. Government & Politics	MTWRF2-4
PSYA01Y	Introduction to Psychology	M&W7-10E
PSYB20F	Developmental Psychology	T&R5-7E TBA Tutorials
PSYB60F	Brain Mechanisms and Behaviour: I	T&R7-10E TBA Practical
SOCA01A	Introduction to Sociology	MTWRF9-11

SOCB03Y History of Social Thought
SOCB18A Sociology of Deviant Behaviour
SOCB24S Sociology of Education: Primary and Secondary Levels

M&W7-10E
MTWRF11-1
MTWRF2-4

Summer Programmes

For further information about the following courses please refer to the 1980 Summer Courses and Programmes brochure

DRAB13B The Victorian Theatre
FARB75A Introduction to Painting
FARB76B Intermediate Painting 1
FARB84A Introduction to Etching
FARB85B Intermediate Etching
FREA06B Introductory French
FREA07S Elementary Conversation 1
FREA16B Elementary French
FREA17S Elementary Conversation 2
FREB06B Language Practice 1
FREB07S Intermediate Conversation 1
FREB16B Language Practice 2
FREB17S Intermediate Conversation 2
FREC06B Language Practice 3
FREC16B Advanced French
HUMB95Y/A/B Supervised Language Study 1
HUMC90Y/A/B Supervised Language Study 2

RUSA10B Introductory Russian
RUSA11S Elementary Conversation
RUSB02B Intermediate Russian
RUSB03S Intermediate Conversation
SPAA01Y Introductory Spanish

English Writing Skills Courses

EWSA01H Basic Writing Skills
EWSB01H The University Essay

Early Music Workshop

Stratford Summer Festival Seminars

Winter Session Evening Courses

Tutorials may be given in addition to the lecture times given below. They will normally be given on the same night except as noted below.

Course No.	Title	Day & Time
ANTA01y	Introduction to Anthropology	T7-10 T6 T3001
ANTB03F	The Americas: An Anthropological Perspective	W7-10
ANTB15Y	Introduction to Physical Anthropology	R7-10 R6 T3001
ANTB16S	The Cultures of Modern Canada	W7-10
ANTC09Y	The Anthropology of Humour	T7-9
BIOC16S	Marine Biology	W7-9 TBA P3001
COMA01Y	Financial Accounting	T7-10
COMB01Y	Management Accounting	R7-10
COMC15Y	Income Tax	W7-10

CSCA56F	Computer Programming	W7-9
		M7-9 T3001
		W7-9 T3002
ECOA01Y	Introduction to Economics	M7-10
ECOB03Y	Price Theory	M7-10
ECOB07Y	Macroeconomic Theory and Policy	W7-10
ECOB68S	Comparative Economic Systems	W7-10
ENGA01Y	English Literature: Practical Criticism and Interpretation	M7-9
ENGB07Y	Canadian Literature in English: An Introduction	T7-9
ENGB14Y	Varieties of Fiction	R7-9
ENGB31Y	Modern Drama	M7-9
FARA12F	Renaissance and Baroque Art	T7-9
FARA70F	Two and Three Dimensional Design	T6-9
FARA71S	Colour	T6-9
FARA90Y	Foundation Studies in Studio	R6-9
FARB43S	Impressionism	T7-9
FARB54F	New York in the Twentieth Century	R7-9
FARB62S	Recent Canadian Art	R7-9
FARB72F	Introduction to Printmaking	W6-9
FARB74S	Intermediate Drawing	W6-9
FARB82F	Introduction to Lithography	M6-9
FARB83S	Intermediate Lithography	M6-9
FREB06Y	Language Practice 1	T7-10
FREB16Y	Language Practice 11	T7-10
FREB40F	French Classicism: Poetry and Prose	W7-9
FREB41S	French Classicism: The Theatre	W7-9
GGRB26Y	Africa: Perspectives in Geography and Development	R7-10
GGRC04F	Urbanization and Residential Geography	T7-9
GGRC18S	Urban Transportation Policy Analysis	T7-9
GRHB01Y	Greek History from the Bronze Age to the Death of Alexander	T7-9
HISB02Y	Britain from Eighteenth Century to the Present	R7-9
HISB44F	Canadian Religious Traditions	T7-9
HISC43S	Selected Topics in Canadian Religious History	T7-9
HIISC47Y	The Course of Conservatism in Canada	W7-9
JCEB54S	Industrial Relations	T7-10
JCSB27Y	Organizational Behaviour	T7-10
LINA04S	Introduction to Language	R7-9
PHLA01Y	Fundamental Questions of Philosophy	R7-10
PHLB01F	Morality and Values	T7-9
PHLB61S	Philosophy of Religion	T7-9
POLA01Y	Introduction to Political Studies	T7-9
POLB50Y	Canadian Government and Politics	W7-10
POLB60Y	Public Administration	M7-10
POLB80Y	International Relations	T7-9
POLB93Y	The Chinese Political System	T7-9
POLC70Y	Twentieth Century Political Thought	R7-10
PSYA01Y	Introduction to Psychology	W7-10
		T7-9 P3001
		W5-7 P3002
PSYB10F	Introduction to Social Psychology	T7-9
		M3 T3001
		T10 T3002
		W4 T3003
		R2 T3004
		T6E T3005
		T6E T3006
		T9E T3007
		T9E T3008
		W7-10
PSYB32F/S	Abnormal Psychology	W7-10

PSYB50F	Sensation and Perception	T7-10
SOCA01Y	Introduction to Sociology	M7-10
SOCB05Y	Urban Sociology	R7-9
SOCB14Y	Comparative Social Structure	T7-10
SOCB24F	Sociology of Education: Primary and Secondary Levels	W7-10
SOCC29S	Variant Family Forms	W7-10
SPAB01Y	Intermediate Spanish	W7-10

WINTER SESSION COURSES 1980-81

ANTA01Y	L01	MWF12	ANTB48S	L01	R1-3
	L30	T7-10E	ANTB51Y	L01	T11-1
	T0001	M2	ANTB53Y	L01	T4R3-5
	T0002	M3	ANTC09Y	L30	T7-9E
	T0003	M4	ANTC15F	L01	T3-5
	T0004	T10	ANTC16S	L01	T3-5
	T0005	T3	ANTC42Y	L01	M2W2-4
	T0006	T1			
	T0007	W9	ASTA02Y	L01	T1R10
	T0008	W4		T0001	R11
	T0009	W4		T0002	R1
	T0010	F9	ASTA03Y	L01	TR11
	T0011	F2		T0001	R10
	T0012	F3		T0002	R12
	T3001	T6E		T0003	T2
ANTA03Y	L01	MWF12	ASTB01Y	L01	T11R11
ANTB01F	L01	T1R1-3		T0001	R2
	T0001	R9	ASTB02H	L01	R12
ANTB02Y	L01	R11-1		P0001	TBA
ANTB03F	L30	W7-10E		P0002	TBA
ANTB05S	L01	T11-1	ASTC01H	L01	TBA
ANTB13F	L01	T11-1	BIOA03Y	L01	TR9
	T0001	T9		L02	TR1
ANTB14Y	L01	R9-11		P0001	T10-1
ANTB15Y	L30	R7-10E		P0002	W1-4
	T3001	R6E		P0003	R2-5
ANTB16S	L30	W7-10E		P0004	F1-4
ANTB19F	L01	M3-5W4	BIOB02Y	L01	T9-11
ANTB20Y	L01	M2W2-4		P0001	T2-5
ANTB22Y	L01	T1R11-1		P0002	R9-12
ANTB26Y	L01	TR4	BIOB05Y	L01	WF9
	T0001	T9		P0001	M2-5
	T0002	T10		P0002	W2-5
	T0003	T2	BIOB06Y	L01	MW2
ANTB27Y	L01	R1-3		P0001	T10-1
ANTB28S	L01	T11-1R11		P0002	W10-1
ANTB30Y	L01	R11-1	BIOB08Y	L01	MW12
ANTB32S	L01	M3-5W4		P0001	R10-1
ANTB39Y	L01	T3R3-5		P0002	R2-5
	P0001	R9-11	BIOB11Y	L01	MW1
ANTB41S	L01	R9-11		P0001	F10-1
	T0001	R4	BIOB12Y	L01	MW4
ANTB44Y	L01	T9-11		P0001	M10-1
ANTB46S	L01	MWF11		P0002	R2-5
ANTB47F	L01	R1-3			
ANTB47F	T0001	R4			

BIOB15Y	L01	TR2	CHMB01Y	L01	MF2	CSCA56F	L01	MW2	DRAC28S	L01	TBA
	P0001	W9-12		T0001	W4		L30	W7-9E	ECOAO1Y	L01	MWF11
BIOB17Y	L01	MW1	CHMB02Y	L01	T4		T0001	M3-5		L02	MWF12
	P0001	M2-5		T0001	F9		T0002	T9-11		L03	MWF1
	P0002	T9-12		P0001	W9-4		T0003	T2-4		L30	M7-10E
	P0003	T2-5		P0002	W9-4		T0004	F2-4		T0101	M12
	P0004	W10-1		P0003	R9-4		T0005	R9-11		T0102	M2
	P0005	M6-9E		P0004	R9-4		T0006	R11-1		T0103	R12
BIOB19S	L01	T2-4	CHMB03Y	L01	M3-5W3		T0007	R3-5		T0201	M11
	P0001	F9-5	CHMB05Y	L01	MF12		T0008	T11-1		T0202	W4
BIOB20F	L01	M2F1		P0001	T9-1		T3001	M7-9E		T0203	M2
	P0001	R9-12		P0002	W9-1		T3002	M7-9E		T0301	M3
BIOB22Y	L01	MW3		P0003	W9-1	CSCA56S	L01	MW2		T0302	R2
	P0001	R9-12		P0004	R1-5		T0001	T2-4	ECOB03Y	L01	MWF9
	P0002	R2-5		P0005	T9-1		T0002	F2-4		L02	MWF11
BIOB23Y	L01	R1-3		P0006	W9-1		T0003	R11-1		L03	MWF2
	P0001	W10-1		P0007	W9-1		T0004	R3-5		L30	M7-10E
	P0002	W2-5		P0008	R1-5		T0005	T11-1	ECOB07Y	L01	MWF12
BIOB24Y	L01	MW11	CHMB08S	L01	T4		L01	MW2		L02	MWF1
	P0001	T10-1		T0001	F9	CSCA58F	T0001	M3-5		L30	W7-10E
	P0002	T2-5		P0001	W9-4		T0002	T9-11		L01	MWF12
	P0003	T6-9E		P0002	W9-4		T0003	W3-5	ECOB11F	L01	MWF2
BIOB27Y	L01	MW10		P0003	R9-4		T0004	R11-1		T0001	M12
	P0001	F9-12		P0004	R9-4		T0005	R3-5		T0002	W12
	P0002	F2-5	CHMC01Y	L01	M9-11		T0006	M3-5		T0003	F10
BIOB31F	L01	R10-12		P0001	T10-5		T0007	F11-1	ECOB11S	L01	MWF2
	P0001	TBA		P0002	T10-5	CSCA66S	L01	MW2	ECOB12S	L01	MWF1
BIOB41Y	L01	F1-3	CHMC02Y	L01	W2-4		T0001	M3-5	ECOB20F	L01	MW12
	P0001	W2-5		P0001	T10-5		T0002	F2-4	ECOB21S	L01	W3-5
BIOB43Y	L01	MW9	CHMC03Y	L01	M12T9		T0003	R9-11	ECOB31S	L01	WF10
	P0001	T2-5		P0001	R9-12		T0004	F11-1	ECOB32F	L01	WF10
BIOB47Y	L01	M9-11		P0002	R9-12		T0005	R10-12	ECOB35F	L01	WF9
	P0001	F1-5		P0003	R9-12	CSCA68S	L01	MW2	ECOB41F	L01	MW11
BIOC01Y	L01	TBA	CHMC45Y	L01	TBA		T0001	M3-5	ECOB45F	L01	MW12
BIOC02Y	L01	TBA	CHMC46Y	L01	TBA		T0002	T9-11	ECOB47S	L01	MW11
BIOC10S	L01	T11-1	CHMC47F	L01	TBA		T0003	W3-5	ECOB51S	L01	MW12
	P0001	M2-5	CHMC47H	L01	TBA		T0004	R11-1	ECOB61S	L01	MW1
BIOC12H	L01	M11	CHMC47S	L01	TBA		T0005	R3-5	ECOB62F	L01	MW1
BIOC14F	L01	MW1	CHMC48S	L01	TBA		T0006	F2-4	ECOB66F	L01	MW9
	P0001	W6-9E	CHMC49H	L01	TBA		T0007	W11-1	ECOB68S	L01	M3-5
CHMA02Y	L01	MW9	CHMC49S	L01	TBA		T0008	T2-4		L30	W7-10E
	L02	MW11	CHMC50S	L01	TBA	CSCB28S	L01	M4F2-4	ECOB81Y	L01	WF10
	P0001	M1-5	CLAA01Y	L01	MWF11	CSCB68F	L01	M4F2-4	ECOB82Y	L01	WF1
	P0002	M1-5	CLAB01Y	L01	T2-4	CSCB73F	L01	M9W9-11	ECOC05S	L01	F2-4
	P0003	M1-5		L01	MWF3	CSCC34F	L01	M1W12-2	ECOC07F	L01	F9-11
	P0004	T1-5	COMA01Y	L02	T11-1	CSCC44F	L01	M4F2-4	ECOC08S	L01	MWF10
	P0005	T1-5		L03	T2-4	CSCC64S	L01	M1W12-2	ECOC13F	L01	F2-4
	P0006	W1-5		L04	R9-11	DRAB01Y	L01	MWF12-2	ECOC14S	L01	W3-5
	P0007	W1-5		L05	R11-1	DRAB04Y	L01	MW10	ECOC15F	L01	M3-5
	P0008	F12-4		L06	F1-3	DRAB05Y	L01	T11-1	ECOC16S	L01	M3-5
	P0009	F12-4		L30	T7-10E	DRAC01Y	L01	T1R1-3	ECOC17F	L01	F2-4
	P0010	M1-5	COMB01Y	L01	MWF11	DRAC10Y	L01	TBA	ECOC18S	L01	F2-4
	P0011	M1-5		L02	R3-5	DRAC11Y	L01	TBA	ECOC19F	L01	W3-5
	P0012	M1-5		L03	R9-11	DRAC12Y	L01	TBA	ECOC20S	L01	M3-5
	P0013	T1-5		L30	R7-10E	DRAC13Y	L01	TBA	ENGA01Y	L01	MWF9
	P0014	T1-5	COMC01Y	L01	T9-11	DRAC14Y	L01	TBA		L02	MWF10
	P0015	W1-5		L02	R1-3	DRAC20Y	L01	TBA		L03	MWF10
	P0016	W1-5	COMC03Y	L01	R3-5	DRAC21Y	L01	TBA		L04	MWF11
	P0017	F12-4	COMC15Y	L30	W7-10E	DRAC25F	L01	TBA		L05	MWF11
	P0018	F12-4	COMC30Y	L01	T9-11	DRAC26S	L01	TBA		L30	M7-9
				L02	R9-11	DRAC27F	L01	TBA			

ENGA02Y	L01	MWF1	FARA11S	L01	M3-5
ENGA08Y	L01	MW9	FARA12F	L30	T7-9E
	T0001	T9	FARA13S	L01	R3-5
	T0002	T10	FARA70F	L01	M12-3
	T0003	T12		L30	T6-9E
	T0004	R1	FARA71S	L01	M12-3
	T0005	R2		L30	T6-9E
	T0006	R3	FARA90Y	L01	W1-4
	T0007	T10		L30	R6-9E
ENGB01Y	L01	M3-5W4	FARB02S	L01	T11-1
ENGB02Y	L01	R11-1	FARB10F	L01	M3-5
ENGB04Y	L01	MWF10	FARB29Y	L01	R11-1
ENGB05Y	L01	R1-3	FARB37Y	L01	W2-4
ENGB07Y	L01	MW2	FARB43S	L30	T7-9E
	T0001	F12	FARB48F	L01	R3-5
	T0002	F1	FARB54F	L30	R7-9E
	T0003	F2	FARB60Y	L01	T2-4
ENGB07Y	L30	T7-9E	FARB62S	L30	R7-9E
	T3001	T6E	FARB70F	L01	T9-12
	T3002	T9E	FARB72F	L30	W6-9E
ENGB09Y	L01	T11-1	FARB74S	L30	W6-9E
ENGB10Y	L01	MW11	FARB77Y	L01	T12-3
	T0001	F1	FARB80F	L01	W9-12
	T0002	F2	FARB81S	L01	W9-12
	T0003	F3	FARB82F	L30	M6-9E
	T0004	F11	FARB83S	L30	M6-9E
ENGB11Y	L01	T2-4	FARB90F	L01	TBA
	T0001	F11	FARB91S	L01	TBA
	T0002	F12	FARC02F	L01	TBA
	T0003	F2	FARC03S	L01	TBA
ENGB12Y	L01	MWF11	FARC04Y	L01	TBA
ENGB16Y	L01	MW1	FARC90F	L01	TBA
	T0001	F9	FARC91S	L01	TBA
	T0002	F11	FARC21Y	L01	TBA
	T0003	F1	FARC22Y	L01	TBA
ENGB24Y	L01	R1-3	FARC24F	L01	TBA
ENGB27Y	L01	M2W2-4	FARC25S	L01	TBA
ENGB31Y	L30	M7-9E	FREA06Y	L01	TR11-1
ENGB33Y	L01	MW1	FREA16A	L01	MTWF10-12
ENGC04Y	L01	F2-4	FREA16Y	L01	M3-5WF4
ENGC06Y	L01	W2-4	FREB02Y	L01	TR9
ENGC12F	L01	MWF12		L02	TR10
ENGC14Y	L01	TBA	FREB06A	L01	MWF9-11
ENGC15Y	L01	TBA	FREB06B	L01	MWF10-12
ENGC18F	L01	F2-4	FREB06Y	L01	MWF10
ENGC28S	L01	F2-4		L02	MWF12
ESLA01Y	L01	W2-4		L03	MWF1
	L02	R11-1		L30	T7-10E
	L30	W7-9E	FREB16B	L01	MWF9-11
ESLB01H	L01	T11-1	FREB16Y	L01	MWF9
	L02	M4-6		L02	MWF10
	L30	M7-9E		L30	T7-10E
EWSA01Y	L01	T4R3-5	FREB17F	L01	MWF12-2
	L02	T1R1-3	FREB17S	L01	MWF12-2
	L03	M2W2-4	FREB20Y	L01	MW4
	L04	M3-5W4	FREB25Y	L01	MW2
	L30	T7-10E	FREB29F	L01	TR10
	L31	W7-10E	FREB30F	L01	MW1
EWSB01H	L01	T9-11	FREB31S	L01	MW1
	L02	R9-11	FREB34Y	L01	MW12
	L30	R7-9E			
FARA10F	L01	T11-1			

FREB36F	L01	TR11	GGRB24Y	L01	W2-4
FREB37S	L01	TR11		T0001	W4
FREB40F	L30	W7-9E	GGRB25Y	L01	WF3
FREB41S	L30	W7-9E		P0001	M9-11
FREB48Y	L01	MW11	GGRB26Y	L30	R7-10E
FREB70Y	L01	T2-4	GGRC04F	L30	T7-9E
FREB81S	L01	MW2	GGRC05S	L01	T9-11
FREC02F	L01	TBA	GGRC12F	L01	T9-11
FREC03S	L01	TBA	GGRC13S	L01	T9-11
FREC04F	L01	TBA	GGRC15Y	L01	M3-5
FREC05S	L01	TBA	GGRC18S	L30	T7-9E
FREC06Y	L01	MWF9	GGRC20S	L01	R1-3
	L02	MWF10	GGRC24F	L01	R1-3
FREC07S	L01	TBA		T0001	T4
FREC09Y	L01	TR12	GGRC26Y	L01	F2-4
FREC22Y	L01	TR1	GGRC28Y	L01	R1-3
FREC24S	L01	TR10		T0001	T2-4
FREC34F	L01	T2-4	GGRC30F	L01	MW2
				P0001	W3-5
FREC90Y	L01	TBA	GLGA01Y	L01	W2-4
GERA09H	L01	MW2	GLGA02S	L01	R9-11
GERA10Y	L01	MWRF9	GRHB01Y	L30	T7-9E
GERB19Y	L01	MWF4	GRHB02Y	L01	R9-11
	L02	MWF1		T0001	T1
GERB20Y	L01	MWF10		T0002	T4
	L02	MWF12	GRHB25Y	L01	MW2
GERB33S	L01	R11-1	GRHB27Y	L01	R1-3
GERB50S	L01	MWF10		T0001	T3
GERB60F	L01	MWF12	GRKA01Y	L01	MTWF1
GERB66S	L01	MWF12	GRKA10F	L01	MWF12
GERB76F	L01	MWF10	GRKB01S	L01	MWF12
GERC10Y	L01	MWF9	GRKB10Y	L01	TR11-1
GERC20Y	L01	M2W2-4	GRKB20Y	L01	T4R3-5
GERC30F	L01	TBA	GRKB30F	L01	TBA
GERC33F	L01	TBA	GRKB31F	L01	TBA
GERC36F	L01	TBA	GRKB32F	L01	TBA
GERC40S	L01	TBA	GRKB33F	L01	TBA
GERC43F	L01	TBA	GRKB34F	L01	TBA
GERC46S	L01	TBA	GRKB35S	L01	TBA
GERC48Y	L01	TBA	GRKB36S	L01	TBA
GGRA04Y	L01	R9-11	GRKB37S	L01	TBA
	P0001	T1	GRKB38S	L01	TBA
	P0002	T2	GRKB39S	L01	TBA
GGRA05Y	L01	T3	GRKB40Y	L01	TBA
	P0003	T9-11	HISA01Y	L01	TR12
	P0001	W2-4		T0001	F12
GGRB01Y	L01	R11-1		T0002	F2
GGRB02Y	L01	R9-11		T0003	F3
	P0001	T11-1		T0004	F12
	P0002	T2-4		T0005	F2
GGRB03Y	L01	MW10		T0006	F3
	P0001	M3-5		T0007	M12
GGRB05Y	L01	T11-1		T0008	M1
GGRB06Y	L01	MW12		T0009	M2
GGRB13Y	L01	F10-12		T0010	W11
GGRB15Y	L01	R3-5		T0011	W12
	P0001	F1-3		T0012	W1
GGRB17Y	L01	R1-3			
GGRB19Y	L01	T2-4			
	P0001	W11-1			

HISB02Y	L01	MW9	HUMA10Y	L01	R3-5	JMPB50F	L01	MWF11	MATA26Y	L01	MF9
	L30	R7-9E		T0001	R11	JMPC51S	L01	MWF11		L02	MF10
	T0001	F9		T0002	R12	JPAC10Y	L01	TR10		L03	MF10
	T0002	F11	HUMA11Y	L01	WF9	JPMC42S	L01	T3F10-12		T0001	M11-1
	T0003	F12	HUMB15Y	L01	T9-11	LATA01Y	L01	MTWF1		T0002	M3-5
	T3001	R6E	HUMB20Y	L01	T11-1	LATA10F	L01	MWF12		T0003	T9-11
HISB03Y	T3002	R9E	HUMB22F	L01	WF10	LATB01S	L01	MWF12		T0004	T1-3
	L01	MW1	HUMB24S	L01	WF10	LATB30F	L01	TBA		T0005	W9-11
	T0001	F12	HUMB29S	L01	T2-4	LATB31F	L01	TBA		T0006	W3-5
	T0002	F1	HUMB44F	L01	R1-3	LATB32F	L01	TBA		T0007	R9-11
	T0003	F2	HUMB64Y	L01	WF12	LATB33F	L01	TBA		T0008	R3-5
	T0004	F3	HUMB70Y	L01	M3-5	LATB34F	L01	TBA		T0009	F11-1
HISB04Y	L01	MW2	HUMC01S	L01	R1-3	LATB35S	L01	TBA		T0010	F3-5
	T0001	F12	HUMC10H	L01	TBA	LATB36S	L01	TBA		T0011	M11-1
	T0002	F1	HUMC11Y	L01	M3-5	LATB37S	L01	TBA		T0012	M3-5
	T0003	F2	HUMC14Y	L01	MWF11	LATB38S	L01	TBA		T0013	T9-11
	T0004	F2	HUMC19F	L01	T2-4	LATB39S	L01	TBA		T0014	T1-3
	T0005	F3	HUMC95Y	L01	TBA	LATB40Y	L01	TBA		T0015	W9-11
	T0006	F1	HUMC96Y	L01	TBA	LATC01F	L01	TBA		T0016	W3-5
HISB06Y	L01	MW11	HUMC97Y	L01	TBA	LATC02S	L01	TBA		T0017	R9-11
	T0001	F11	HUMC98Y	L01	TBA	LINA01Y	L01	MWF10		T0018	R3-5
	T0002	F12	HUMC99Y	L01	TBA	LINA04F	L01	MW11		T0019	F11-1
HISB13Y	L01	TR4	ITAA01Y	L01	MWF10	LINA04S	L30	R7-9E	MATA40F	L01	TR9
	T0001	W10	ITAA02H	L01	MW11	LINB02S	L01	MWF10		L02	TR10
	T0002	W11	ITAA03S	L01	MWF12	LINB04S	L01	MWF11		T0001	M3-5
HISB16Y	L01	MW12	ITAA11Y	L01	MWF10	LINB07Y	L01	T11-1		T0002	T12-2
	T0001	W9	ITAB01Y	L01	MWF1	LINB09F	L01	MWF10		T0003	W9-11
	T0002	W3	ITAB03F	L01	MWF11	LINB11Y	L01	MWF1		T0004	W3-5
HISB17Y	L01	T9-11	ITAB06S	L01	MWF11	LINB15S	L01	MWF4		T0005	R11-1
	T0001	R2	ITAB11Y	L01	MWF1	LINB27F	L01	MWF11		T0006	R3-5
	T0002	R3	ITAB20F	L01	M2W2-4	LINC01F	L01	TBA		T0007	F11-1
HISB21F	L01	MW11	ITAB22F	L01	M2W2-4	LINC02F	L01	TBA		T0008	F1-3
HISB22S	L01	MW11	ITAB23S	L01	M2W2-4	LINC03F	L01	TBA	MATA45S	L01	TR9
HISB23Y	L01	TR1	ITAB31Y	L01	W1F12-2	LINC04S	L01	TBA		T0001	M3-5
	T0001	R3	ITAB34F	L01	MWF10	LINC21Y	L01	F2-4		T0002	T12-2
	T0002	R4	ITAB40S	L01	MWF10	MATA22Y	L01	MF9		T0003	W9-11
HISB31Y	L01	T11-1	ITAC01Y	L01	M12-2W12		L02	MF10		T0004	W3-5
	T0001	M11	ITAC50F	L01	TBA		T0001	M11-1		T0005	R11-1
	T0002	M10	ITAC52F	L01	TBA		T0002	M3-5		T0006	R3-5
HISB44F	L30	T7-9E	ITAC53F	L01	TBA		T0003	T9-11		T0007	F11-1
HISB45Y	L01	M3-5	ITAC54F	L01	TBA		T0004	T1-3		T0008	F1-3
HISB46Y	L01	T2-4	ITAC55S	L01	TBA		T0005	W9-11	MATA55Y	L01	MF9
	T0001	R10	ITAC56S	L01	TBA		T0006	W3-5		T0001	T3-5
	T0002	R12	ITAC57S	L01	TBA		T0007	R9-11		T0002	R11-1
HISB47Y	L01	R3-5	ITAC58S	L01	TBA		T0008	R3-5		T0003	R3-5
	T0001	W11	ITAC59S	L01	TBA		T0009	F11-1	MATB25Y	L01	M3R3-5
	T0002	W12	ITAC60Y	L01	TBA		T0010	F3-5	MATB40F	L01	M2W2-4
HISB61Y	L01	T9-11	JBCB35Y	L01	TR12				MATB41F	L01	MF1
	T0001	W1	JBCB36H	L01	M4					T0001	M2-4
	T0002	W3		P0001	R2-5					T0002	T9-11
HISC12Y	L01	M3-5	JCEB54S	L30	T7-10E					T0003	F10-12
HISC14Y	L01	R9-11	JCEB72F	L01	M3W3-5					T0004	R9-11
HISC19S	L01	T2-4	JCEB73S	L01	M3W3-5					T0005	R1-3
HISC21Y	L01	R11-1	JCEC02Y	L01	T2-4					T0006	F3-5
HISC43S	L30	T7-9E	JCEC40S	L01	W9F9					T0007	M9-11
HISC47Y	L30	W7-9E	JCSB27Y	L01	TR10				MATB42S	L01	MF1
HISC62Y	L01	W2-4		L30	T7-10E					T0001	T9-11
HUMA01Y	L01	M3-5	JHEC13Y	L01	M3-5					T0002	R9-11
	T0001	T1	JLPB55F	L01	MWF4					T0003	R3-5
	T0002	W4	JMCC51S	L01	MWF9					T0004	F3-5
	T0003	W4									
	T0004	R10									

MATB45S	L01	M2W2-4	PHYA03Y	L01	TF11	POLC61S	L01	T11-1	PSYB30F	L01	T4R3-5
MATB50F	L01	T9R9-11		P0001	M2-5	POLC70Y	L30	R7-10E	PSYB32F	L30	W7-10E
MATB55S	L01	T9R9-11		P0002	R9-12	POLC85Y	L01	T2-4	PSYB32S	L30	W7-10E
MATB70S	L01	T11R11-1		P0003	F2-5	POLC91F	L01	R11-1	PSYB33S	L01	T11R11-1
MATC44F	L01	M12F12-2		T0001	T1	POLC92S	L01	R11-1		T0001	M9
MATC49S	L01	M12F12-2		T0002	T2					T0002	T9
MATC51F	L01	T11R1-3		T0003	T3	PSYA01Y	L01	MWF9	PSYB40F	L01	T9-11
	T0001	R11		T0004	T4		L02	MWF10		P0001	T2-5
MATC53Y	L01	MWF2	PHYB01S	L01	T2F9		L03	MW4F3		P0002	R2-5
MATC54F	L01	M10-12F9		T0001	F2		L30	W7-10E	PSYB41F	L01	R9-11
MATC56S	L01	T11R1-3	PHYB03F	L01	T2F9		P0001	T9-11		P0001	W2-5
	T0001	R11		T0001	F2		P0002	T11-1		P0002	F10-1
MATC60F	L01	T12R3-5	PHYB04F	L01	TF10		P0003	W10-12	PSYB50F	L30	T7-10E
MATC65S	L01	T12R3-5		T0001	F3		P0004	W12-2	PSYB51F	L01	MW10
MUSA01Y	L01	M2W2-4	PHYB08H	L01	W9-3		P0005	R10-12		T0001	T4
MUSB01S	L01	MW11	PHYB09S	L01	M3-5W3		P0006	R12-2		T0002	R9
MUSB02F	L01	MW11	PHYB13Y	L01	T4F1		P0007	F11-1		T0003	R3
MUSB09H	L01	TBA		T0001	F4		P3001	T7-9E	PSYB57S	L01	T1R1-3
MUSB10H	L01	TBA	PHYB17S	L01	T12F3		P3002	W5-7E	PSYB60F	L01	T1R1-3
MUSB11F	L01	TR11		T0001	F10	PSYB07F	L01	MTRF1		T0001	T2
MUSB17H	L01	T2-4	PHYB18F	L01	T3F11		T0001	W9		T0002	T4
NSCA01Y	L01	TF1		T0001	F10		T0002	W11		T0003	R4
PHLA01Y	L01	MWF10	PHYC01F	L01	T9F3		T0003	R10	PSYB61S	L01	T1R1-3
	L02	MWF12		T0001	T4		T0004	T4	PSYB62Y	L01	F2-4
	L03	MWF1	PHYC03Y	L01	TF1		T0005	W4		P0001	M10-1
	L30	R7-10E	PHYC05H	L01	W9-3		T0006	R9		P0002	W10-1
PHLB01F	L30	T7-9E	PHYC06F	L01	T3F11		L01	MWF10	PSYB65F	L01	T11-1R12
PHLB05F	L01	T9-11	POLA01Y	L01	TR1		T0001	R9	PSYC15S	L01	T2-4
PHLB11F	L01	MWF12		L30	T7-9E		T0002	R10	PSYC20F	L01	W11-1
PHLB20F	L01	T1R1-3		T0001	T9		P0001	M2-5	PSYC22S	L01	T11-1
PHLB30S	L01	MWF10		T0002	T10		P0002	T2-5	PSYC30S	L01	W2-4
PHLB40F	L01	M2W2-4		T0003	T12		P0003	R9-12	PSYC53S	L01	R11-1
PHLB41S	L01	M2W2-4		T0004	T3	PSYB10F	L30	T7-9E	PSYC56F	L01	T4R3-5
PHLB48F	L01	MWF11		T0005	T2		T3001	M3	PSYC60F	L01	MF12
PHLB49S	L01	MWF11		T0006	R10		T3002	T10	PSYC90-93S	L01	TBA
PHLB60S	L01	T1R1-3		T0007	R9		T3003	W4	PSYC98Y	L01	M1-3
PHLB61S	L30	T7-9E		T0008	R12		T3004	R2	QUAB02Y	L01	M3-5
PHLB70F	L01	W2-4	POLB50Y	L01	MW3		T3005	T6E	RUSA01Y	L01	R3-5
PHLB71F	L01	T2-4		L30	W7-10E		T3006	T6E	RUSA10Y	L01	TR11-1
PHLB81F	L01	MWF10		T0001	W11		T3007	T9E		P0001	T10
PHLC11S	L01	MWF1		T0002	M4	PSYB10S	T3008	T9E	RUSB02Y	L01	M2W2-4
PHLC52S	L01	TR11		T0003	W4		L01	MW2		P0001	M3
PHLC71S	L01	T2-4	POLB53Y	L01	MW10		T0001	M11	RUSB11Y	L01	R9-11
PHLC95F	L01	TBA	POLB54F	L01	R1-3		T0002	M12	RUSB23Y	L01	T2-4
PHLC95S	L01	TBA	POLB60Y	L30	M7-10E		T0003	T12	RUSC02F	L01	TBA
PHLC96F	L01	TBA	POLB65Y	L01	W10-12		T0004	T2	RUSC03S	L01	TBA
PHLC96S	L01	TBA	POLB70Y	L01	WF11		T0005	W10	RUSC04H	L01	TBA
PHLC97F	L01	TBA		T0001	F10		T0006	W12	RUSC05Y	L01	TBA
PHLC97S	L01	TBA	POLB71Y	L01	R3-5		T0007	R3	SOCA01Y	L01	MW3
PHLC98F	L01	TBA	POLB80Y	L01	T9-11		T0008	R1		L02	T4R3-5
PHLC98S	L01	TBA		L30	T7-9E		T0009	F9		L30	M7-10E
PHLC99Y	L01	TBA	POLB82Y	L01	R1-3		T0010	F11	SOCB01Y	L01	MW9
PHYA02Y	L01	TF11	POLB86Y	L01	R11-1	PSYB11F	L01	T11-1		T0001	M11
	P0001	T2-5	POLB87Y	L01	T11-1	PSYB20F	L01	R9-11		T0002	W11
	T0001	T9	POLB88Y	L01	R1-3		T0001	M12	SOCB02Y	L01	MW11
	T0002	T10	POLB89Y	L01	M3-5		T0002	T12		T0001	M9
			POLB91Y	L01	M2W2-4		T0003	T2		T0002	W4
			POLB93Y	L30	T7-9E		T0004	W12	SOCB03Y	L01	R11-1
			POLC51S	L01	T9-11		T0005	R11		T0001	R3
			POLC60F	L01	T11-1		T0006	R1			
							T0007	R3			
							T0008	R4			

SOCCB04Y	L01	MW2	SOCC29S	L30	W7-10E
SOCCB05Y	L01	TR11	SOCC40F	L01	TBA
	L30	R7-9E	SOCC41F	L01	TBA
SOCCB06F	L01	T1R1-3	SOCC42S	L01	TBA
SOCCB08S	L01	MW12	SOCC43S	L01	TBA
	T0001	T1	SPAA01Y	L01	MWF9
	T0002	W9		L02	MWF9
	T0003	R9	SPAB01Y	L01	MWF11
	T0004	T10		L02	MWF11
SOCCB09F	L01	MW12		L30	W7-10E
	T0001	T1	SPAB03S	L01	T11-1
	T0002	W9	SPAB12S	L01	MWF12
	T0003	R9	SPAB19Y	L01	MWF1
	T0004	T10	SPAB26F	L01	R11-1
SOCCB10Y	L01	T4R3-5	SPAB29F	L01	T2-4
SOCCB13Y	L01	MWF9	SPAB30S	L01	T2-4
SOCCB14Y	L30	T7-10E	SPAC01Y	L01	MWF10
SOCCB15Y	L01	MW10	SPAC02F	L01	TBA
SOCCB16Y	L01	T11R11-1	SPAC03F	L01	TBA
SOCCB17S	L01	T2-4	SPAC04F	L01	TBA
SOCCB18Y	L01	R9-11	SPAC05F	L01	TBA
SOCCB19Y	L01	T11-1	SPAC06F	L01	TBA
	T0001	T4	SPAC07S	L01	TBA
SOCCB20Y	L01	T11-1	SPAC08S	L01	TBA
SOCCB23Y	L01	T9-11R9	SPAC09S	L01	TBA
SOCCB24F	L30	W7-10E	SPAC10S	L01	TBA
SOCCB25S	L01	T2-4	SPAC11Y	L01	TBA
SOCC03F	L01	T2-4		L01	TR1
SOCC05Y	L01	R1-3	STAB52F	T0001	T9
SOCC06F	L01	T2-4		T0002	W10
SOCC07S	L01	T2-4		T0003	R9
SOCC10F	L01	T2-4		T0004	R3
SOCC11S	L01	T2-4		T0005	F10
SOCC13S	L01	R1-3		L01	T1R1
SOCC18Y	L01	W2-4	STAB57S	T0001	T9
SOCC20Y	L01	T11-1		T0002	W10
SOCC21Y	L01	MW1		T0003	R9
SOCC26S	L01	T2-4		T0004	R3
SOCC27F	L01	T2-4	STAC52F	L01	T9-11R10
			STAC67S	L01	T9-11R10

ROOM AND TELEPHONE DIRECTORY

Unless otherwise noted, all phone numbers are on exchange 284-

	PHONE	ROOM
Abrey, J. History	3141	H-522
Alfano, D. Psychology	3321	S-557
Alzo, M. History	3151	H-317A
Amis, M. (Mrs.) Accounting	3206	S-410B
Andrew, D. Microbiology	3224	S-527
Andrew, E. Political Science	3168	R-5233
Andrews, G. English	3175	H-521
Anthropology		
Teaching Laboratory	3137	R-2509A
Astronomy Laboratories		R-2303
Athletic Association	3395	R-2263
Atkinson, F. Mathematics	3342	R-3008
Audio Learning Laboratory	3159	S-222
Autton, E. (Mrs.) Principal's Secretary	3113	S-409
Awwal, A. Chemistry	3336	S-428
Babiak, H. Commerce	3115	H-420
Bain, A. Chemistry	3319	S-418E
Balcony Square	3147	H-213C
Baldner, S. Philosophy	3205	H-331
Ball, J. L. Library	3245	S-651A
Bancroft, W. J. (Miss) French	3315	H-312
Barnett, R. (Mrs.) Library	3240	S-637
Barta, R. J. Spanish	3185	H-326
Bassili, J. Psychology	3339	S-540C
Beals, R. C. Sociology	3193	H-425
Beckstead, R. W. Greenhouse	3236/3114	S-702
Benson, J. (Mrs.) Health Service	3253	S-304
Berry, A. Leave of Absence		
Beyers, J. ESL	3132	R-3020
Biederman, G. B. Psychology	3211	S-560
Billy, C. T. C. S. Office	3108	S-202
Binnick, R. I. Linguistics	3132	R-3018
Birsky, J. Psychology	3337	S-538A
Bissoon, N. (Mrs.) Teaching Preparation	3210/3224	S-134
Blackburn, B. Computing Services Rep.	3173	S-630
Bladen, V. W. Economics (Fall term only)	3153	H-412
Blair, R. S. Chairman - Div. Social Science	3149	H-409
Boddington, A. (Miss) Classics	3144	H-511
Boonstra, R. Zoology	3221	S-543
Bowie, J. (Mrs.) Physical Education-Secretary	3393	R-2255
Boyd, C. (Ms) Writing Laboratory	3369	S303F
Bradbury, L. Technical Services	3282	S-109
Braid, N. (Mrs.) Bookstore	3251	S-360
Braithwaite, D. Technical Services	3282	S-109
Bremner, K. (Mrs.) Counsellor	3292	S-302A
Breuls, Dr. A. M. Health Service	3303	S-304A
Bridi, M. (Mrs.) Academic Secretary	3151	H-332A
Brodzky, M. English	3205	H-334
Brook, J. F. Manager-Business Services	3106	S-410E
Brown, I. R. Zoology (Fall term only)	3224	S-540
Brown, R. M. English	3179	R-5010
Browne, L. L. (Ms) Drama	3204	S-257
Brumer, P. Chemistry	3227	S-534
Bryan, R. Leave of Absence		
Bucovetsky, M. W. Economics	3153	H-412
Bunce, M. F. Geography	3130	R-5710
Bunyan, J. (Mrs.) Co-op Programme Secretary	3117	R-5111A

Burt, R.	Chemistry	3336	S-428
Burton, Frances D.	Anthropology	3252	H-424
Cafeteria	T. Pino-Chef Manager	3110	
Callahan, T.	Mathematics	3194	R-4016
Campbell, D.E.	Economics	3212	R-4229
Campbell, I.M.	Zoology	3210	S-550
Campbell, K.	Psychology	3237	S-252
Carbone, D. (Mrs.)	Sec.-Assist. to Principal	3243	S-407
Carney, L. (Ms)	Fine Art	3307	R-3233
Caton, C. (Mrs.)	Asst. to the Principal	3243	S-407D
Chawla, S.	Mathematics	3378	R-4031
Cheng, F.	Teaching Preparation	3283	S-132A
Chiang, R.G.	Biology	3215	S-422
Chiang, Y. (Ms)	Chemistry	3336	S-511A
Chicoy-Daban, I.	Spanish	3185	H-328
Choy, Victoria	Counsellor	3292	S-302C
Chu Fu, S.	Biochemistry	3221	S-542
Clarke, J.N.	Astronomy	3378	R-4231
Cober, R.J.	Purchasing Agent	3207	1069 Military Tr.
Cockrell, R.	Russian	3258	H-320
Cohen, A.	Psychology	3184	S-407D
Cohen, J.	Economics	3153	H-417
Cole, W.	Biology	3215	S-423
Colman, S.J.	Leave of Absence		
Colton, T.	Political Science	3170	R-5237
Computer Terminal		3122	S-624
Connery, M. (Mrs.)	Library	3183	S-503
Control Room	Physical Education	3392	R-1115
Cook, I. (Mrs.)	Purchasing	3209	1069 Military Tr.
Cook, P.	Economics	3118	R-4012
Corben, B.	Leave of Absence		
Corbett, J.	Leave of Absence		
Cosgrove, J.	Zoology	3224	S-536
Coults, I.	Philosophy	3141	H-526
Cowie, W.J.	Geography	3326	R-5704
Creelman, M.J.C.	English	3144	H-505A
Cross, S.	Animal Technician	3239	S-609
Cruz, T.	Biology	3224	S-529
Cupchik, G.	Psychology	3184	S-427C
Currie, A.	Sociology	3212	R-5219
Curri, G. (Mrs.)	Registrar	3266	S-413
Curtis, J.A. (Mrs.)	French	3186	H507
Cwyner, L.	Biology	3155	S-546
Czczot, J.	Technical Services	3282	S-109
Davies, L.J.	Consultant-T.L.U.	3181	S-303H
Dawson, T. (Mrs.)	Personnel Office	3140	S-411B
Deavitt, J. (Mrs.)	Library	3317	S-504
DeDominicis, B. (Mrs.)	Sec.-Life Sciences	3131	S-521B
de Lannoy, J-L.	Sociology	3168	*R-5227
Delong, L.	German	3346	H-314
Delver, R.	Leave of Absence		
DeMatteis, D.L.	English	3179	R-5010
Dengler, R.E.	Botany	3218	S-552
Dick, W.M.	History	3197	H-333
Dickie, S.E. (Mrs.)	Physical Services Office	3203	S-303C
Dion, K.K.	Psychology	3337	S-538B
Distad, N.	History	3186	H-507A
Dobbs, N.H.	Associate Registrar	3139/3292	S-302B
Domander, R.	Psychology	3339	S-564
Domville, E.W.	English	3205	H-334
Donnelly, M.	Political Science	3168	R-5231
Doucette, L.E.	Leave of Absence		
Dove, J.E.	Chairman-Physical Sciences	3289	R-4044

Dowler, E.W.	History	3151	H-317A
Dyer, C.	Astronomy	3352	R-4233
Eksteins, M.	History	3258	H-319
Ellers, E.W.	Mathematics	3352	R-4024
Embleton, S.	Linguistics	3186	H-506
Enright, W.H.	Computer Science	3352	R-4026
Ensol, A.	Italian	3307	R-3235
Esberey, J. (Miss)	Political Science	3170	R-5229
Evans, C.	French	3182	R-5213
Evans, M.	Library	3366	S-647A
Evans, M.	Mathematics	3192	R-4225
Everingham, P. (Miss)	Chemistry	3227/3231	S-532
Fahrin, K.	Technical Services	3282	S-109
Falkenheim, V.	Political Science	3168	R-5235
Farrow, R. (Mrs.)	Library	3183	S-504A
Fennell J.	Library	3317	S-504
Filosa, M.	Biology	3321/3353	S424/S-517
Fisher, A.	Co-Director - Writing Lab.	3369	S-303F
Fitz Gerald, G.A.	Manager-Physical Services	3201	S-303
FitzPatrick, M. (Mrs.)	Health Service	3253	S-304
Fletcher, J.8	Political Science	3168	R-5233
Foley, Joan E.	Principal	3111	S-409
Forrin, A. (Mrs.)	Counsellor	3292	S-302D
Forrin, B.	Psychology	3211	S-569
Forsyth, A.	Academic Secretary	3329	S-521B
Foster, V.	Library	3246	S-503
Fox, Dr. T.W.	Health Service	3303	S-304A
Franceschetti, A.	Italian	3315	H-313A
Freake, D.	English	3205	H-334
Freyche, B.	French	3370	R-3241
Froebel, A. (Mrs.)	Library	3238	S-635
Fu, S.	Biochemistry	3224	S-529
Fukumoto, K.	Teaching Preparation	3217	S-236
Galimberti, J.	Political Science	3168	R-5235
Gallini, N.	Economics	3115	H-416
Gamble, S. (Mrs.)	Library	3317	S-503
Gambles, R.	Botany	3210	S-433
Gardiner, J. (Mrs.)	Bookstore	3251	S-360
Garry, M. (Mrs.)	Registrar's Secretary	3266	S-414A
Gatenby, S.	S.C.S.C. Secretary	3135	R-3042
Gedge, S.	Chemistry	3318	S-432
Genzinger, K. (Mrs.)	Teaching Preparation	3213	S-225
Gerrard, M. (Miss)	Assistant Registrar	3300/3127	S-415
Gervers, M.	History	3182	R-5207
Ghyczy, C. (Mrs.)	Teaching Preparation	3213	S-249
Gill, H.S.	Zoology	3353	S-515
Ginther, L.	Library	3202	S-649
Glickman, Y.	Sociology	3170	R-5225
Godde-Nijhowne, K. (Mrs.)	Spanish	3178	H-331A
Godwin, V. (Mrs.)	Academic Secretary	3237	S-521B
Goldenberg, Rita	Psychology	3339	S-540B
Gombay, A.	Philosophy	3141	H-526
Gooch, P.W.	Chairman-Humanities	3309	H-528
Goodwin, I. (Mrs.)	Library	3202	S-649
Gornik, M.	Supervisor-Audio/Visual	3152/3350	S-339
Gover, B. (Mrs.)	Academic Secretary	3146	R-5008
Govind, C.K.	Leave of Absence		
Gradowski, D. (Mrs.)	Photography and Graphics	3241	R-3226
Grafstein, D.	Sociology	3193	H-430
Graham, W.C.	Philosophy	3346	H-322
Grant, J.	Classics/Assoc. Chairman Hum.	3171	H-510
Greenhouse		3114	3290 Ellesmere Rd.
Greenwood, B.	Geography	3301	S-565 & S-436

Greenwood, P.	Zoology	3224	S-536
Griffin, P.A.	Physics	3352	R-4239
Guchardi, John	Supervisor-Ath. Services	3392	R-1115
Gunderson, M.	Economics	3212	R-4008
Gunther, E. (Mrs.)	Registrar's Office	3127	S-416C
Gurd, J.	Biochemistry	3221/3224	S-542
Hadden, K. (Miss)	Botany	3155	S-546
Hagen, M.	Zoology	3215	S-423
Hall, B.	Fine Art	3370	R-3708
Hall, D.	Mathematics	3378	R-4031
Hall, M.	Mathematics	3378	R-4031
Halperin, J.S.	Mathematics	3340	R-4028
Hammond, M.	Sociology	3193	H-432
Handy, J.	History	3175	H-524
Hannigan, J.	Sociology	3109	H-518
Harcourt, G.	Economics (Spring Term/80)	3153	H-419
Harford, D.	Photography and Graphics	3241	R-3226
Harris, H.E.F.	Security/Transport	3274	S-300
Hart, J.	English	3205	H-334
Hartley, J.	Philosophy	3175	H-523
Head, R.W.	Central Stores	3281	S-112
Heard, R.	Computer Terminal	3122	S-624
Heighington, G.	Psychology	3211	S-563
Heikkila, J.	Zoology	3224	S-536
Heinrichs, W.	Psychology	3184	S-427C
Helleiner, G.	Economics (Fall Term/79)	3153	H-419
Hemmings, R.T.	Chemistry	3318	S-533
Henderson, K.	Chemistry	3133	S-418C
Hendley, S. (Mrs.)	Life Sciences-Secretary	3291	S-421B
Hill, B. (Mrs.)	Admin. Assist.-Phys. Serv.	3269	S-303A
Hilton, S.	Anthropology	3118	R-4014
Hiscox, J.	Botany	3224	S-527
Ho, F.	Biology	3210	S-424
Hobson, P.	Economics	3212	R-4010
Hodges, W.	Geography	3301	R-5006
Holman, D.	Fine Art	3370	R-3708
Holst, B. (Mrs.)	Academic Secretary	3137	H-411
Hoogstraten, J.	Fine Art	3370	R-3708
Höpe, June	Admin. Assist. - Personnel	3396	S-412A
Hopen, C.E.	Anthropology	3252	H-427
Horbert, W.	Zoology	3215	S-423
Howard, W.J.	English	3178	H-325
Howson, S.	Leave of Absence		
Hughes, J.	Teaching Preparation	3321	S-241
Hussain, A.	Library	3277	S-629
Irvine, E. (Mrs.)	Library	3246	S-503
Irwin, M.E. (Ms)	Classics	3171	H-519
Isajiw, W.	Sociology	3193	H-428
Israelstam, G.F.	Botany	3224	S-526
Issa-Sayegh, D.	French	3179	R-5211
Izzard, B. (Mrs.)	Purchasing	3208	1069 Military Tr.
Jack, T.	Chemistry	3133	S-427B
Jackson, H.J. (Mrs.)	English	3146	R-5215
Jacobs, A.E.	Physics	3340	R-4241
Jaffer, S.	Botany	3224	S-526
Jamal, K. (Mrs.)	Academic Secretary	3302	H-411
James, D.M.	Linguistics	3186	H-506
James, R.L.	Sociology (Fall Term only)	3193	H-431
Jennings, C.	French	3141	H-515
Jodhan, T.	Chemistry	3283	S-132
Johnson, K. (Mrs.)	Registrar's Office	3361	S-412B
Johnson, S.	German (fall term/79)	3314	H-318
Karagianis, D.	Electronics	3159	S-109

Katz, G. (Mrs.)	Italian	3307	R-3235
Kay, J.	English	3182	R-5209
Keast, P.	Mathematics	3340	R-4030
Kennedy, J.M.	Psychology	3339	S-564
Kenney-Wallace, G.A.	Leave of Absence		
Kenyon, J.P.B.	Leave of Absence		
Kerrigan, B. (Mrs.)	Academic Secretary	3212	R-5111
Kerrigan, D.P.	Animal Technician	3239	S-609
Kesler, R.	English	3382	R-5007
Khan, C.	Electronics	3159	S-109A
Khan, S.	Biology	3353	S-515
Kimmerly, M. (Mrs.)	Admin. Assist.-Social Sciences	3332	H-409A
King, J.D.	Physics	3192	R-4038
Kirkness, W.J.	French	3197	H-335
Kistoth, S.	Research Assist.-Geography	3130	R-5226A
Klajner, F.	Psychology	3329	S-418D
Klawe, M.	Computer Science	3194	R-4223
Knight, V. (Mrs.)	Registrar's Office	3127	S-416B
Kosachov, N. (Mrs.)	Russian	3178	H-331A
Krashinsky, M.	Leave of Absence		
Kresge, A.J.	Chemistry	3336	S-511
Kronberg, P.P.	Astronomy	3378	R-4221
Kukan, G.	Anthropology	3137	R-2507
Kukla, A.	Psychology	3184	S-418A
Kupka, I.	Leave of Absence		
Kwan, H.	Library	3246	S-503
Laaniste, Jaan	Asst. Director-Physical Education	3393	R-2261
Lahey, R.	History	3382	R-5007
Lambek, M.	Anthropology	3118	R-4217
Latta, M.	Anthropology	3153	H-429B
Lawson, E. (Mrs.)	Registrar's Office	3310	S-414A
Le, L. (Mrs.)	Library	3183	S-633A
Leah, P.J.	Mathematics	3340	R-4034
Lee, J.A.	Sociology	3109	H-517
Lee, K.	Botany	3218	S-553
Lee, M.J.G.	Physics	3194	R-4219
Lee, S.W.	Zoology	3224	S-536
Legge, R.E.	Glassblower	3148	S-109B
Leon, P.	Leave of Absence		
Levine, A.	History	3175	H-524
Levine, K.	Philosophy	3141	H-526
Library Storage Houses		3265	3290 & 3316 Ellesmere
Lintlop, S.	Biology	3215	S-423
Lodhi, A.	Sociology	3212	R-5223
Lopez, E.	Audio/Visual Technician	3152/3350	S-341
Lowrey, C. (Ms)	Library	3366	S-647A
MacDonnell, N.	Storekeeper-Central Stores	3281	S-112
MacLeod, C.	Psychology	3218	S-570
MacLeod, D.	History	3175	H-524
Magee, L.	Psychology	3339	S-564
Mann, R.	Super. Building Services	3285	S-212A
Manzer, R.A.	Political Science	3170	R-5243
Margeson, J.M.R.	English	3175	H-521
Marnoch, G.	Locksmith	3235	S-107
Martin, P.G.	Astronomy	3192	R-4227
Martin, S.	Psychology	3339	S-540C
Mathematics Drop-In Centre			R-2313
Maude, S.H.	Zoology	3221	S-549
Mawson, N. (Mrs.)	Admin. Assist.-Residences	3174	S-3031
Mayo, J.	Music	3126	S-356
McAuliffe, D.J.	Italian	3334	R-3243
McClelland, R.A.	Chemistry	3318	S-532

McConnell, G.	Greenhouse	3236	S-702
McCool, J.	Mathematics	3352	R-4022
McDonald, D.	History	3314	H-321
McDonald, I.R.	Classics	3205	H-329
McFeat, T.	Anthropology	3252	H-421
McGee, T.	Leave of Absence		
McGillivray, D.	Geography	3301	R-5006
McGregor, E. (Mrs.)	Photography and Graphics	3328	R-3226
McKay, W.	History	3175	H-524
McLean, A. (Miss)	Admin. Assist.-Phys. Education	3393	R-2255
McLean, M.	History	3382	R-5007
McLeod, W.E.	Classics	3171	H-520
Mendelsohn, E.	Mathematics	3192	R-4036
Michaud, L.	French	3141	H-515
Mignault, L.	French	3151	H-323
Milgram, N.W.	Psychology	3353	S-513
Milne, W.	Economics	3153	H-418
Minhinnett, R.	Photography and Graphics	3241	R-3226
Miron, J.	Geography	3130	R-5706
Mitchell, T.	Commerce	3118	R-4104
Mittler, S. (Miss)	Leave of Absence		
Moes, P.C.	Leave of Absence		
Mogridge, D.	Leave of Absence		
Moir, J.S.	History	3175	H-524
Montgomery, B. (Mrs.)	Information Assistant	3243	S-407
Moore, E.	Mathematics	3378	R-4031
Moore, P.	Geography	3326	R-5708
Morris, G. (Mrs.)	Library	3238	S-635
Morris, K.	History	3382	R-5007
Mosher, D.L.	Leave of Absence		
Mugnier, F. (Ms)	French	3179	R-5211
Muhlberger, S.	History	3182	R-5207
Mulgrave, N. (Miss)	Audio/Visual Department	3152/3350	S-338D
Nalewajko, C. (Sparling)	Leave of Absence		
Namjoshi, Suniti	English	3144	H-505
Needham, R. (Mrs.)	Physical Education	3294	R-1115
Neumann, H.	History	3382	R-5007
Ng, C. (Mrs.)	Microbiology	3211	S-569
Nicholson, T.	Library	3154	S-223C
Nigosian, S.	Humanities	3186	H-507A
Norman, Jacqueline (Mrs.)	Admin. Assist.-Physical Sciences	3352	R-4235
Norman, Joan T.	Library	3277	S-627
Norskey, C.	English	3370	R-5014
O'Donnell, P.J.	Physics	3192	R-4042
Ohlendorf, H.	German	3197	H-330
O'Mara, M.T.	Classics	3171	H-520
O'Toole, R.	Sociology	3109	H-516
Ott, W. (Mrs.)	Bookstore-Manager	3251	S-360
Ovenden, L.	Biology	3155	S-546
Pallandi, T.	Director-Physical Education	3121	R-2251
Papadatos, G.	Classics	3186	H-507A
Paris, J.	Central Stores	3281	S-112
Parker, I.	Economics	3153	H-415
Patenall, A.J.G.	English	3185	H-324
Pauker, J.	Psychology	3339	S-540B
Pearce, J.	Zoology	3215	S-422
Pearl, J.L.	History	3314	H-315A
Pearsall, R. (Mrs.)	Registration Assistant	3127	S-416
Pearson, L. (Mrs.)	Admin. Assist-Registrar's Office	3310	S-414
Peek, E.	Mathematics	3378	R-4031
Perrault, C.R.	Computer Science	3194	R-4018
Perz, J.M.	Physics	3231	S-525
Petit, T.	Psychology	3321	S-557

Pfohl, J. (Miss)	Library	3246	S-503
Physical Geography			
Research Laboratory		3301	S-436
Physical Geography			
Teaching Laboratory		3301	S-312
Pick, F.	Botany	3218	S-553
Pickett, C.	Biology	3321/3353	S-517/S-241
Pickles, J.	Physical Services-Residences	3180	Residence Trailer
Pickup, L. (Mrs.)	Academic Secretary	3151	H-332A
Pilaprat, J.	French	3370	R-3241
Pilskalnietis, M.A. (Mrs.)	Assist.Dir.-Phys. Education	3294	R-2259
Plitz, D. (Mrs.)	Secretary-Admissions Officer	3359	S-302
Poapst, J.	Commerce	3118	R-4104
Pokorny, D.	Economics	3118	R-4104
Ponomareff, C.V.	Exeter Exchange		
Poppleton, T.	Draftsman	3327	S303D
Potter, J.	Chemistry	3133	S-418C
Powell, M.	Chemistry	3336	S-428
Prialgauskas, R.	English	3179	R-5012
Price, A.	Geography	3301	S-567
Quick, S.	Physics	3342	R-2031B
Radio Scarborough		3356/3143	S-203
Ramcharitar, H.	Audio/Visual Maintenance	3350/3152	S-265
Raininger, R.	Electron Microscopy	3335	S-228
Ram, R.	Library	3317	S-503
Rapoport, A.	Sociology	3170	R-2505
Reception Desk		3398	Main Entrance
Registration General Enquiry		3300	
Reid, J.	Library	3240	S-637
Relph, E.	Geography	3326	R-5712
Richard, T.	Psychology	3339	S-564
Richards, D.	Psychology	3337	S-567B
Richardson, P. (Mrs.)	Post Office	3271	Post Office
Ritchie, J.C.	Botany	3155	S-559
Roberts, S.	Accounting	3103	S-411A
Robertson, I.R.	History	3178	H-327
Rodd, F.H.	Biology	3221	S-543
Roeder, R.C.	Leave of Absence		
Rogers, S.	Zoology	3353	S-515
Rotman, J.	Psychology	3337	S-567B
Rubinoff, A.	Political Science	3168	R-5245
Ruddell, E. (Mrs.)	Bookstore	3251	S-360
Ryozik, O.H.T.	English	3205	H-334
Russell, C. (Mrs.)	Fees Counsellor	3116	S-416A
Ryall, M. (Mrs.)	Health Service	3253	S-304
S.A.C.		3219	R-2000
Salus, M.W.	Leave of Absence		
Salus, P.H.	Leave of Absence		
Sandbrook, K.R.J.	Political Science	3168	R-5239
Sarson, J.	Building Services Officer	3285	S-212B
Saunders, R.	Economics	3115	H-414
Saunders, T.	History	3382	R-5007
Sawchuk, L.	Anthropology	3252	H-422
Scadding, J.	Leave of Absence		
Scavizzi, G.	Leave of Absence(Spring/80)		
Schaerer, B. (Miss)	Academic Secretary	3150	H-525A
Scherk, John	Mathematics	3340	R-4032
Scholtens, A. (Mrs.)	Library	3246	S-503
Schonberg, M.	Leave of Absence		
Schroeder, H.B.	Anthropology	3136	S-311/H-423
Schuyffel, P.H.	Electronics	3159	S-109A
Seikaly, H.	Chemistry	3318	S-432
Seiz, A.	Chemistry	3318	S-432

Sepp, E.	Fine Art	3307	R-3233
Shaikh, A.A.	Zoology	3353	S-515
Shank, C.	Printing Department	3108	S-202
Sharpe, R.W.	Mathematics	3194	R-4020
Shaw, M.C.	Fine Art	3334	R-3239
Sheps, A.N.	History	3314	H-321
Sherman, U.L.	Leave of Absence(Fall/79)		
Shirley, R.W.	Anthropology	3252	H-426
Shum, D.	Mathematics	3378	R-4031
Sidon, E.	Biology	3215	S-423
Siebelhoff, R.	Fine Art	3307	R-3237
Silver, J.	Microbiology	3339/3224	S-540E
Simmie, P.	Academic Dir. - Co-op Prog.	3117	R-5111A
Simmie, P.	Economics	3212	R-4006
Simpson, P.	French	3151	H-323
Skyrme, R.	Spanish	3258	H-317
Smith, A.	Bookstore	3251	S-360
Smith, I. (Mrs.)	Accounting	3195	S410B
Smith, M. (Mrs.)	Psychology	3321	S-531
Sobel, J.H.	Philosophy	3288	H-513
Sociology Graphics Area		3137	R-2512A
Solomon, S. (Mrs.)	Political Science	3170	R-5241
Solowka, K.	Library	3246	S-503
Somani, R.	Chemistry	3318	S-432
Soobrian, I.	Chief Constable	3274	S-300
Sparling	see Nalewajko		
Spencer, G.	Purchasing Department	3286	1069 Military Tr.
Sperdakos, P.	Drama	3126	S-259
Spilsbury, S. (Mrs.)	Library	3317	S-503
Statten, Dr. T.	Psychiatrist	3303	S-304A
Stawinoga, A.	Commerce	3115	H-428A
Student Services		3292	S-302
Students' Council		3135/3104	R-3042
Students' Pub		3177	R3251
Sullivan, D. (Mrs.)	Secretary-Physical Sciences	3289/3192	R-4704
Summersby, A.	Library	3246	S-503
Szeicz, G.	Geography	3130	R-5703
Tait, M.	Leave of Absence		
Tapper, G. (Mrs.)	Admin. Assist.-Accounting	3357	S-410A
Taras, D.	Political Science	3212	R5219
Tarshis, L.	Economics	3153	H-419
Taylor, I.	Psychology	3211	S-569
Teaching Learning Unit		3181	S-303H
Terrell, B. (Mrs.)	Accounting	3206	S-410B
Theil, K.	English/Humanities	3370	R-5014
Thomas, A.C.	English	3179	R-5012
Thompson, P.	Philosophy	3205	H-331
Tidwell, T.T.	Associate Dean	3364	S-405A
Tierney, M.	Psychology	3337	S-540D
Toombs, G.	Printing Department	3108	S-202
Topping, R.K.	Chief Engineer	3123	Power Plant
Tovell, J.	Geology	3162	S-521
Trembley, G.F.R.	French	3315	H-313
Tuck, C. (Mrs.)	Social Sciences Secretary	3302	H-410
Tyman, S.	Philosophy	3205	H-331
Ungar, S.	Sociology	3109	H-514
Urquhart, F.A.	Insect Migration Studies	3295	R-3014
Urquhart, N. (Mrs.)	Insect Migration Studies	3295	R-3014
Uttley, P. (Mrs.)	Personnel	3138	S-411B
Van Veen, G.H.	Physics	3342	R-2031
Verner, A.	Chemistry	3133	S-418C
Vicari, E.P. (Mrs.)	Leave of Absence (spring/80)	3288	H-512
Von Aesch, C.	French	3197	H-335

Walker, A.	Chemistry	3319	S-535
Walker, M.B.	Physics	3340	R-4237
Wall, K.	Teaching Preparation	3217/3321	S-331
Walter, C.	Music	3126	S-356
Warden, J.R.	Associate Dean-Academic	3124	S-408
Ware, C.	Psychology	3339	S-564
Weatherley, A.H.	Biology	3353	S-515
Webb, D.	History	3314	R-5007
Webb, R.	Biology	3210	S-420B
Weisser, K.	Technical Services	3282	S-109
Wesley, K.	Electronics	3159	S-109A
Westbrook, T.	Photography and Graphics	3241	R-3226
Western, P. (Mrs.)	Admin. Assist.-Humanities	3304	H-527
Westgate, J.A.	Geology	3162/3119	S-521
Westin, R.	Leave of Absence		
Whalen, S. (Ms)	Russian	3346	H-315
White, N.	Animal Technician	3239	S-609
Wiederkehr, M. (Miss)	Library	3202	S-649
Wilker, J.B.	Mathematics	3192	R-4040
Willadsen, I. (Mrs.)	Physical Services Office	3203	S-303C
Willard, C. (Mrs.)	Library	3183	S-504A
Willard, J.	Landscape Foreman	3272	S-200B
Willard, L. (Miss)	Academic Secretary	3237	S-521B
Williams, D.D.	Zoology	3221	S-549
Williams, G. Ronald	Chairman - Life Sciences	3291	S421A
Williams, L.	Anthropology	3137	R-2509A
Wilson, Douglas	Purchasing Department	3247	1069 Military Tr.
Wilson, M. (Mrs.)	Residence Office	3391	S-3031
Winter, R.	Economics	3193	H-425
Wittmann, H.	German	3346	H-314
Wolanin, L.B.	Electronics	3159	S-109A
Wood, J. (Mrs.)	Sec./Asst. Student Ser.	3292	S-302
Wood, M. (Mrs.)	Sec.-Assoc. Dean(Academic)	3124	S-406
Woods, J.D.	Linguistics	3288	H-508
Woollatt, G.	Physics	3342	R-2503
Woycke, J.	History	3314	H-321
Writing Laboratory		3369	S-303F
Yakimov, P. (Mrs.)	Library	3165	S-653A
Yamamoto, P. (Mrs.)	Library	3238	S-635
Yamazaki, J. (Mrs.)	Secretary-Physical Sciences	3342/3378	R-4706
Yap Chung, E.	Teaching Preparation	3217	S-322
Yoon, T.	Mathematics	3342	R-3008
Youson, J.H.	Zoology	3321/3215	S-566
Zaks, S.	Teaching Preparation	3217	S-327

REQUEST TO REGISTER IN A SUPERVISED READING OR RESEARCH COURSE

To Be Completed by the Student

NAME: _____ SESSION: _____

STUDENT NUMBER: _____ COURSE: _____

PROPOSED AREA OF STUDY: _____

PREVIOUS COURSES IN DISCIPLINE: _____

SIGNED: _____ DATE: _____

To Be Completed by the Instructor

I approve _____'s registration in the course

_____, and agree to act as the supervisor of studies.

METHOD OF EVALUATION: * _____

SIGNED: _____ DATE: _____

*The Grading Practices Policy stipulates that students must be informed of the method of evaluation by the last date to add a course.

REQUEST TO REGISTER IN A SUPERVISED READING OR RESEARCH COURSE

To Be Completed by the Student

NAME: _____ SESSION: _____

STUDENT NUMBER: _____ COURSE: _____

PROPOSED AREA OF STUDY: _____

PREVIOUS COURSES IN DISCIPLINE: _____

SIGNED: _____ DATE: _____

To Be Completed by the Instructor

I approve _____'s registration in the course

_____, and agree to act as the supervisor of studies.

METHOD OF EVALUATION: * _____

SIGNED: _____ DATE: _____

*The Grading Practices Policy stipulates that students must be informed of the method of evaluation by the last date to add a course.

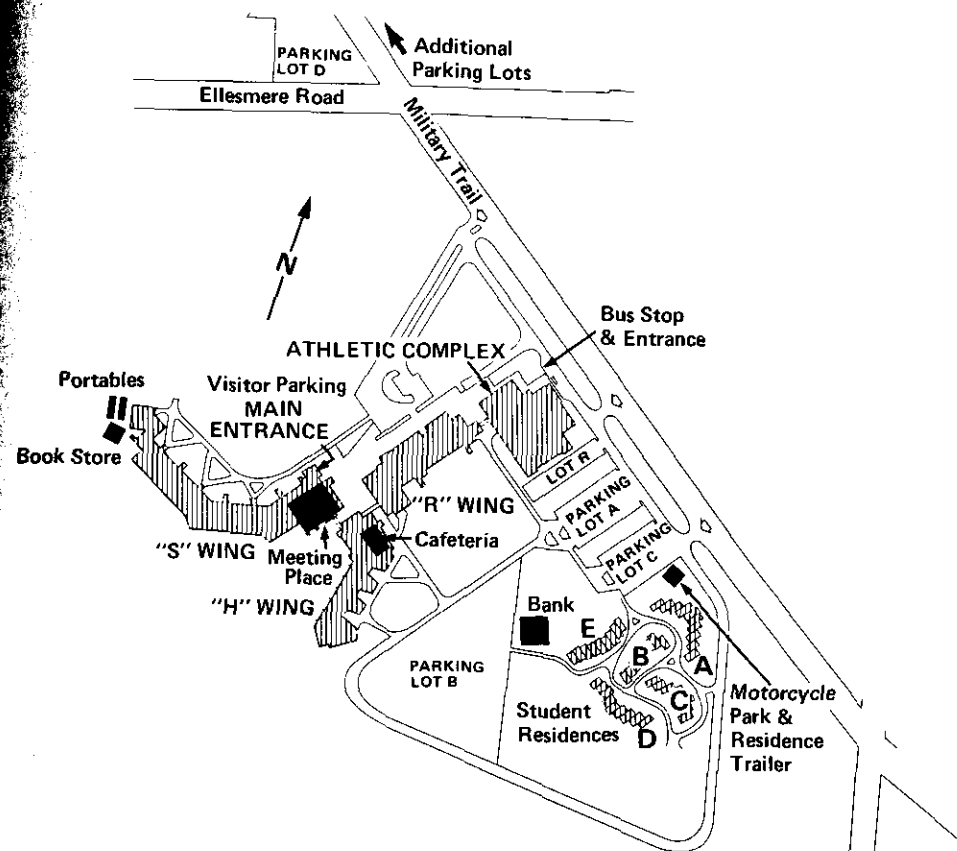
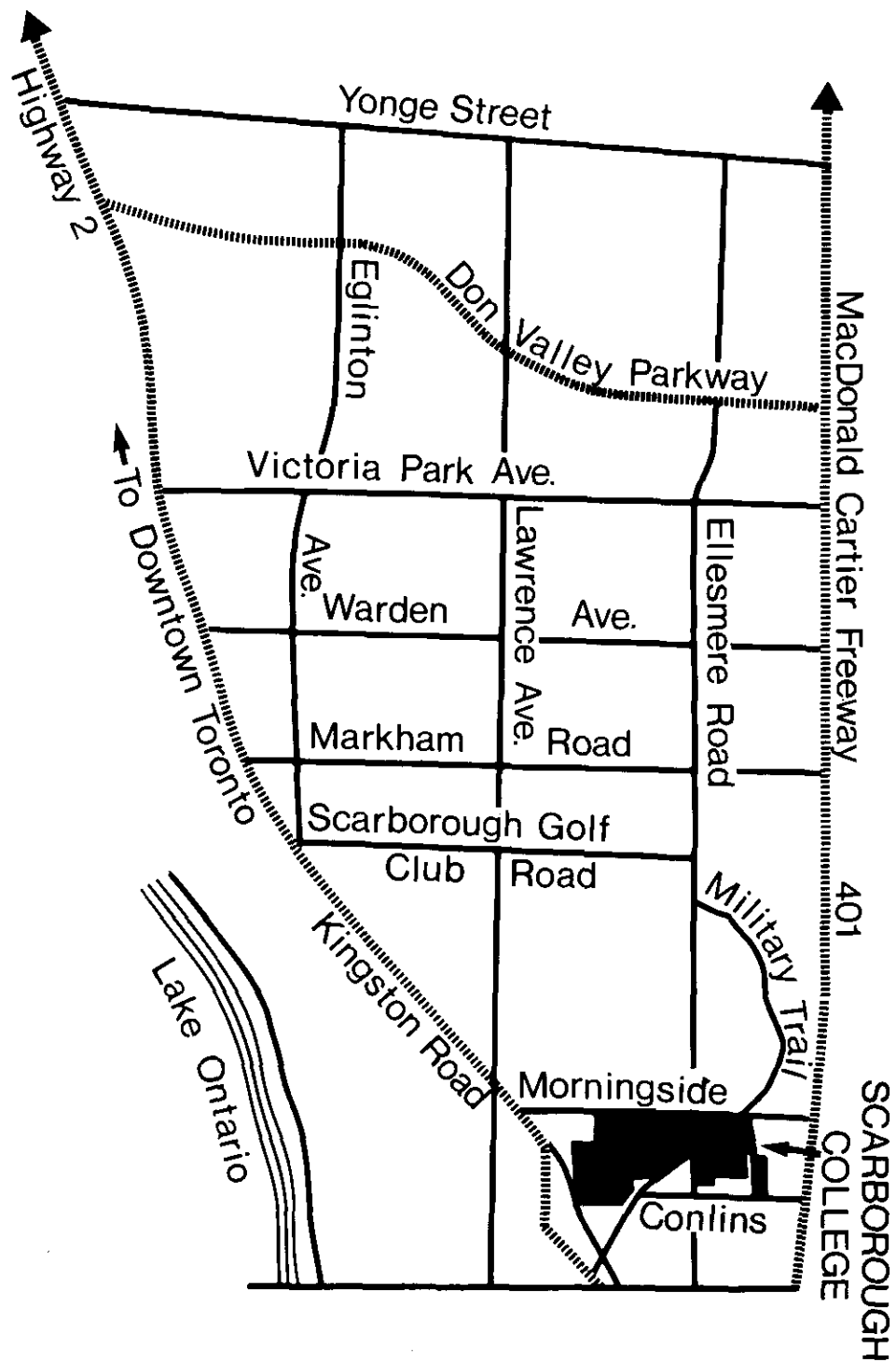


TABLE OF CONTENTS

Important Notes	2
Academic Calendar	3
Officers of the University	4
Administration and Faculty of Scarborough College	5
Admissions and Awards	11
Bases of Admission	11
English Facility Requirement	12
Admission Requirements for Students Entering Scarborough College from Grade 13 in the Fall of 1982-83 and Thereafter	13
Admission Scholarships	13
In-Course Awards	14
Graduation Prizes	14
Scarborough College Honours List	14
Graduation with High Distinction and with Distinction	15
Bursaries	15
Academic Regulations	16
Selection of Courses	16
Requirements for the Degree	17
Programme Requirements: New Rules	19
Programme Regulations: Applicable to Pre-1980 Students	21
English Proficiency Requirement	21
Standing in a Course	22
Overall Standing	23
Courses on Other Campuses	24
Courses at Other Universities: Letter of Permission	25
Courses at Other Universities: Study Elsewhere Year	26
Degrees	27
Academic Transcripts	27
Access to Student Records	28
Withdrawal	29
Grading Practices Policy	30
Procedure for Petitions and Appeals	30
General Information	34
Discipline: Academic Matters	34
Non-academic Matters	34
Non-Credit Courses in English Writing Skills	35
Programmes of Study and Course Descriptions	37
Key to Course Descriptions	37
List of Programmes: Specialist, Major and College Programmes	39
Anthropology	39
Astronomy	48
Biological Sciences	51
Canadian Studies	58
Chemistry	60
Classical Studies	68
Commerce	73
Computer Science	76
Cooperative Programme in Administration	80
Drama	83
Economics	88
English	94
Fine Art	102
French	111
Geography	121
Geology	128
German	128
Greek	133
History	134
History of Ideas	141
Humanities	143

Italian	150
Joint Courses	156
Language and Literature	156
Latin	157
Linguistics	157
Mathematics	162
Medieval Civilization	168
Modern Languages	170
Music	170
Myth and Religion	172
Natural Science	173
Philosophy	174
Physics	180
Political Science	184
Psychology	190
Quaternary Studies	198
Renaissance Studies	199
Russian	202
Sociology	205
Spanish	212
Statistics	216
Timetable	217
Summer Session Timetable	218
Winter Session - Evening Timetable	219
- Academic Timetable	221
Room and Telephone Directory	231
Request to Register in a Supervised Reading or Research Course	241
Date Calendar	243
College Maps	244

