

CALENDAR 1968/69



TRENT UNIVERSITY



University Calendar

FOR THE FIFTH ACADEMIC YEAR 1968/69

Nunc cognosco ex parte



Trent University
Peterborough Ontario
Canada

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University Diary 1968-9

AUTUMN TERM

Sept. 11	Wednesday	Arrival and registration of new students
Sept. 13	Friday	Introductory seminar begins and continues until Sept. 15
Sept. 16	Monday	Classes begin for first year students; arrival and registration of returning students
Sept. 17	Tuesday	Classes begin for second, third and fourth year students
Sept. 26	Thursday	Meeting of the Senate
Oct. 4	Friday	Final date for changes in registration
Oct. 14	Monday	Thanksgiving Day
Oct. 17	Thursday	Meeting of the Senate
Nov. 2	Saturday	Classes end
Nov. 4	Monday	Residential Reading and Laboratory Week begins
Nov. 11	Monday	Classes begin; Armistice Day
Nov. 21	Thursday	Meeting of the Senate
Dec. 14	Saturday	Classes end
Dec. 15	Sunday	Christmas vacation and Reading Period begins
Dec. 24	Tuesday	Christmas holiday to December 27
Dec. 25	Wednesday	Christmas Day
Dec. 26	Thursday	Boxing Day
Dec. 31	Tuesday	New Year's holiday to January 2

WINTER TERM

Jan. 1	Wednesday	New Year's Day
Jan. 6	Monday	Classes begin

University Diary (continued)

Jan. 16	Thursday	Meeting of the Senate
Feb. 20	Thursday	Meeting of the Senate
Mar. 1	Saturday	Classes end
Mar. 2	Sunday to	
Mar. 16	Sunday	Winter Reading Period
SPRING TERM		
Mar. 17	Monday	Classes begin
Mar. 20	Thursday	Meeting of the Senate
Apr. 4	Friday	Good Friday
Apr. 17	Thursday	Meeting of the Senate
Apr. 26	Saturday	Classes end
Apr. 28	Monday	Examinations begin
May 1	Thursday	Final date for receipt of applications for admission to the Summer session
May 10	Saturday	Examinations end
May 11	Sunday	Summer Vacation and Reading Period begins
May 19	Monday	Victoria Day
June 30	Monday	Final date for receipt of applications from mature applicants
July 1	Tuesday	Dominion Day
July 2	Wednesday	Summer session classes begin
July 15	Tuesday	Final date for receipt of applications for supplemental examinations
Aug. 4	Monday	Civic Holiday
Aug. 9	Saturday	Summer session classes end
Aug. 12	Tuesday	Summer session examinations begin and continue until August 14
Sept. 1	Monday	Labour Day

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General Information

History

Trent University was formally created as an independent university with full degree-granting powers by an Act of the Ontario Legislature which received Royal Assent in April, 1963. It accepted its first undergraduate class in September, 1964. The creation of the University was the culmination of several years of preparation and planning, both by public-spirited citizens of the City of Peterborough and by a group of academic advisers who made up the University's Academic Planning Committee, created in 1961 under the chairmanship of the President-designate, T. H. B. Symons. On July 1, 1963, more than a year before the University accepted its first class, a nucleus of faculty members and senior administrative staff assumed full-time duties.

During the early years, the Academic Planning Committee initiated the broad academic preparation for the University, and made proposals for the curriculum, library arrangements, the sciences, teaching methods, admissions and scholarship policy, and the general concepts of the University. A Campus Planning Committee, consisting also of experienced academic persons, undertook planning for the site and architecture. The proposals of these two planning committees were accepted in full as the basic policies of the University.

Early in 1963, the University launched an appeal for \$1,520,000 to assist in the first five-year capital and operating program. The Trent University Founding Fund was generously oversubscribed at both the local and national levels. In 1964, the University was made eligible to receive federal operating grants by recommendation of the Canadian Universities Foundation.

An academic staff of 24, in 16 fields of study, took up duties at the University on July 1, 1964, for the first academic year. They were joined that September by a first-year class of 102 students, and by three students pursuing postgraduate degrees. The first convocation held in June 1967 saw the awarding of one Master of Science degree, 51 Bachelor of Arts

degrees and 21 Bachelor of Science degrees, as well as five honorary degrees. In the fourth academic year, 1967-68, there were 77 members of the faculty, 750 undergraduates and five graduate students.

The University was elected to provisional membership in the Association of Universities and Colleges of Canada in the autumn of 1965. In the spring of 1966 Trent was elected to membership in the Association of Commonwealth Universities.

Aims

Trent University aims to be a community of scholars. In spite of the complexities of the modern university—the need for increasingly specialized fields of enquiry and for complex material and scientific facilities—the University believes that this simple ideal remains relevant.

The University seeks to ensure, through the system of tutorial teaching, that each student is encouraged to pursue intensively, and in close association with his academic seniors, the full range of studies in his fields of interest. The University insists upon a good level of scholarship and upon some continuous application to study throughout the year. The University is building and growing on a residential collegiate system because it believes that the full values of a liberal education can best be realized through the corporate life of residential colleges.

Site and Buildings

The University site is a rolling, wooded property located on both sides of the Otonabee River at the northern edge of Peterborough. The core of the site was the gift of the Canadian General Electric Company, and additional land, totalling more than 1,400 acres, has been acquired to meet the needs of the University. The Nassau campus is an area of outstanding beauty, providing the environment in which to create a university of special character and good standards.

The master planning architect, Ronald J. Thom of Vancouver and Toronto, has created a development plan which will provide a number of colleges, a library, science laboratories and other facilities for a university community of more than 3,500 students and academic staff. The first

buildings on the site are now open and in 1968 the plan calls for the completion of another residential college, the University library and the Chemistry building.

In its first years, the University also occupies premises within the City of Peterborough. The main University building, Rubidge Hall, contains an attractive library and reading rooms, lecture and tutorial rooms, science laboratories, faculty and administrative offices, and a cafeteria. Two residential colleges are also located in the city—Catharine Parr Traill College for women, and Peter Robinson College for men—offering residential accommodation and dining, common room, and teaching facilities for their members. Champlain College, the first college for men on the main campus, opened last year, and Lady Eaton College, the first college for women on the main site, will open in 1968. A science staging building, housing all of Biology and some Psychology laboratories, opened in September, 1967 on the Nassau site.

Tutorial and Seminar Teaching

It is the conviction of Trent University that a university education should engage each student in dialogue with members of the faculty and with fellow students. To achieve this, a variety of small teaching groups is established according to the requirements of the given discipline. Students are required, by directed reading, the preparation of essays and other written assignments, to prepare to take an active part in regular academic discussions in small groups in each subject.

Each student registering for the first time is assigned to a supervisor of studies who is responsible for advising him on his choice of courses and for reviewing with him his progress at regular intervals throughout the academic year. Students intending to return in the next academic year are counselled on their programs in the spring to enable them to pursue purposeful summer reading. In each subject, the student is assigned to a tutor who is responsible for directing his reading, writing and small group participation, where applicable.

In the section on Courses of Study in this Calendar may be found the teaching method employed in each course offered. Generally speaking, lectures are less central in the teaching program than in most universities. Some lectures are offered in most subjects to guide, to clarify and to

emphasize, rather than to cover prescribed material in detail. Lectures are normally open to any student wishing to attend and are not restricted to persons enrolled in certain courses. Beyond the first year, few lectures are compulsory. Regular attendance and satisfactory participation are required in the laboratory and in tutorials and seminars, but the wise student may find that the lectures are a strong complement to formal discussions in these smaller groups.

Small group meetings may consist of a seminar, of up to fifteen members, a tutorial, of up to five students, or regular discussion between the student and an instructor in his major subject(s). The tutorial and seminar system assumes that the University is a place of liberal education and of learning, rather than of training and instruction. It therefore places a special responsibility on students to discipline their own work and to express themselves frequently and well in written and oral work.

Academic Year

Trent University considers that its members are committed to their work for the entire year. The academic year has therefore been patterned to provide for both the work and the relaxation necessary for fruitful study.

Undergraduates at the University devote a considerably larger part of the whole year to their academic studies than is customary. The formal academic year is somewhat longer than at most Canadian universities, but there are more significant pauses during the year from formal class studies for reading and assimilation. The tutorial and seminar system demands that a student distribute his work more evenly throughout the year than is often the case. The academic year is therefore divided in a distinctive way, with a three-week recess in December, two weeks in March, and a one-week reading and laboratory recess in November.

Undergraduates are expected to do considerable academic work outside term, and tutors take particular care in guiding undergraduates in this work. A reading program which does not preclude summer employment, but to which the University attaches great importance, is assigned over the longer summer vacation. Work done during vacation periods forms an integral part of each year's work and is taken into account in determining academic standing.

The University's location in the Trent Valley makes it an attractive site for a summer program. Arrangements may be made by interested students to live in residence for a six-week summer term, and to make use of the library, laboratories, and other University facilities during this period.

Colleges

The residential college system is at the heart of Trent University. All students and members of the academic staff are members of a college in which they have an opportunity to live and work together in a relatively small academic community within the larger body of the University. Much formal academic work is done in the colleges, and various social and athletic organizations also exist within them. In the college communities, undergraduates may find both formal academic guidance and the fellowship of other students and members of the academic staff.

Enrolment in each of the men's and women's colleges includes representation from all disciplines and all years of study, and includes both resident members and members who live at home or in lodgings in the Peterborough area. Non-resident members of the colleges enjoy full use of the college facilities and take active parts in college life.

The college system is designed to offer genuine and constant opportunities to cross those boundaries between different subjects and fields of study which so often hinder liberal discussion in a university. The isolation of subjects, frequently reflected in the physical plans of universities, can be avoided in one based on the college system by bringing together, within each college, students and faculty from all disciplines of the University.

Each college offers for the use of its members a dining room, common rooms, a reference and browsing library, seminar rooms and tutorial offices. The first two colleges, Peter Robinson College and Catharine Parr Traill College, were opened in September, 1964. The first college to be established on the campus and the third college within the University, Champlain College for men, opened in 1967 and the fourth college, Lady Eaton College for women, opens on the campus in 1968. The objectives, programs, and facilities of the colleges are similar, whether in town or on the main campus.

The master plan of the University provides for the establishment over the years of more than a dozen colleges.

PETER ROBINSON COLLEGE

Master

R. H. Sadleir, M.A.

Vice-Master

I. D. Chapman, B.SC., M.A.

Senior Tutor

S. T. Robson, B.A., D.PHIL.

Assistant to the Master

J. O. Stubbs, B.A., M.SC.

Named to honour the founder of Peterborough, the Hon. Peter Robinson, who led a group of more than two thousand Irish settlers to the area in 1824-25, Peter Robinson College opened in September, 1964. Located in a pleasant residential area of Peterborough, the College offers teaching, residential and recreational facilities in a grouping of buildings which includes several of the fine old homes of Peterborough. Both the physical arrangements and the program of the College are planned to relate learning and living; non resident members are given full opportunity to take an active role in all aspects of its life.

College House is the centre of the life of Robinson College. While completely renovated and expanded, this Victorian building still retains its handsome carved staircase and its splendid moulded ceilings. The growing library of the College makes reference books and general reading readily available to students. A new linking building, which blends the traditional and the modern, contains teaching offices for members of the faculty as well as rooms for seminars and meetings of undergraduate clubs and organizations. All members of the College are drawn together in the dining hall where guests may be entertained and where special lectures, meetings, concerts, receptions and dances can be held.

In addition to study-bedrooms for undergraduates, the buildings of the College provide accommodation for some members of the faculty. These resident dons, together with other members of the faculty who are Fellows of the College, are able to assist the undergraduates' college government carry out a varied cultural, athletic and social program.

CATHARINE PARR TRAILL COLLEGE

Principal

Miss M. G. Fry, M.A., B.LITT.

Senior Tutor

I. M. Sandeman, B.SC.

Senior Don

Miss Janet P. Bews, M.A., PH.D.

Assistant to the Principal

Mrs. Nancy Sherouse, B.A.

The first women's college is named in honour of Catharine Parr Traill (1802-1899), a pioneer settler of the Peterborough district, botanist, and author of *The Backwoods of Canada* and numerous other works.

Traill College, one of the two town colleges, enjoys the gracious setting of a number of attractive old homes as well as a modern residential and teaching wing. Each house accommodates resident students in study bedrooms while also offering academic and recreational facilities for all students of the College. Each house also accommodates a member of faculty as resident don. The College common rooms and dining hall are furnished to invite relaxation and conversation. The weekly 'Fellows Dinner', at which members of the academic staff who are Fellows of the College are present, has become an important College tradition. Many Fellows of the College have their tutorial offices in the College and teach in its seminar rooms. They actively assist in the development of college life, taking particular interest in the college library and in projects in the fine arts.

Each year Fellows and students of Traill College invite persons of academic distinction to visit the College for a few days as Visiting Scholars, meeting informally with members of the College and sharing in the life of the College in every way.

Students maintain the College library on an honour system, and the undergraduates' College Cabinet sponsors a varied program of academic, cultural, social and athletic activities. Non-resident students are welcomed as active contributors to all aspects of College life.

CHAMPLAIN COLLEGE

Master

W. L. Morton, M.A., B.LITT., LL.D., D. LITT., F.R.S.C.

Vice-Master

S. G. D. Smith, M.A., B.LITT.

Senior Tutor

C. M. Greene, B.A., A.M., PH.D.

Senior Don

A. G. Fisher, M.A.

Recorder

B. L. Beach, B.A., M.A., PH.D.

The first building on the University's Nassau campus, and the third college within the University, is Champlain College for men. This College, the name of which honours the great explorer and founder of New France, lies on the bank of the Otonabee River in the Trent Valley.

The buildings of the College include residential and academic facilities for a community of more than 300 resident and non-resident members.

Twin cornerstones for the College, one inscribed in English and one in French, were laid by Hon. John Robarts, Q.C., LL.D., Prime Minister of Ontario, and Hon. Jean Lesage, P.C., Q.C., LL.D., then Prime Minister of Quebec, in a colourful ceremony in October, 1965. The occasion marked the 350th anniversary, to the very month, of Champlain's historic voyage of discovery through the Valley of the Trent which may have taken his expedition down the Otonabee, passing within a few feet of the site of the College and through the centre of the University's campus.

These buildings, designed by the Master Architect of the University, Ronald J. Thom, are distinguished both in style and utility, and seek to enhance the experience of university life. The staircase plan in the two residential courts and the single study-bedrooms give ample opportunity both for study and a full college life. Tutorial offices, seminar rooms and the lecture hall are designed to fit the method of study followed in Trent University. The College library is spacious and well appointed. The dining hall, which accommodates the entire membership of the College, adds to

the dignity of College life. The Junior Common Room, Senior Common Room and Graduate Students' Common Room provide comfortable accommodation for general reading, conversation and company. A squash court and the river at the steps of the College suggest how sports may begin to develop in the College.

LADY EATON COLLEGE

Principal

Mrs. Marjorie Seeley, A.M.

Vice-Principal

R. D. Chambers, B.A., B.LITT.

Senior Tutor

R. E. March, B.SC., PH.D.

Lady Eaton College is the fourth college within the University and the first women's college to be built on the Nassau site. Named in honour of Flora McCrea Eaton, a native of nearby Omemee and one of the original honorary sponsors of the University, the College provides a range of attractive facilities designed to encourage the pursuit of academic interchange and excellence within the context of a residential teaching college.

The buildings of the College will accommodate 240 women students together with a number of faculty members who live in college as residential dons. Non-resident members of the College living at home or in lodgings in Peterborough are encouraged to participate in college activities and to make full use of the library, common rooms, music listening and music practice rooms, the dining hall, snack bar, and browsing and reading rooms. The College also provides a permanent home for a distinctive collection of Eskimo art acquired by Lady Eaton in her travels through the Canadian North in 1963.

The concept and design of the College was greatly aided in the planning stage by the support and advice of Lady Ogilvie, former Principal of St. Anne's College, Oxford; Mrs. Mary Q. Innis, former Dean of Women, University College, Toronto; Miss M. H. Seaman, Dean of Women and Principal of St. Hilda's College, Toronto; and Professor Lorna D. Young, Carleton University, Ottawa.

Library

Librarian

J. D. P. Martin, B.A., B.L.S.

Administrative Assistant to the Librarian

Bruce Cossar, B.A., B.L.S.

Consultant on Canadiana to the Librarian

E. C. Guillet, B.A., M.A., LL.D.

Principal Cataloguer

Miss H. Kelley, B.A., B.L.S.

Reference and Circulation Librarian

Miss M. Hargrove, B.H.Sc., B.L.S.

Acquisitions Librarian

J. A. Wiseman, A.L.A.

Assistant Acquisitions Librarian

Miss A. Skorski, B.A., B.L.S.

Senior Cataloguer

S. P. Narang, B.A., M.S.L.S.

Assistant Reference and Circulation Librarian

C. C. Weaver, B.A., B.L.S.

Senior Cataloguer

Mrs. D. A. McNeil, B.A., B.L.S.

The University Library is the centre of university scholarly activity. At present it occupies the south wing of Rubidge Hall with space for reference, reading and stack facilities. The main book collection, housed in open-access stacks and designed primarily to meet current student needs, will number more than 100,000 volumes by September, 1968, and is rapidly expanding to serve both student and faculty readers. The reference collection will number more than 5,000 volumes, while more than 1,150 current periodicals are being received.

A number of special collections have been formed and, to support the University's interest in Canadian studies, the Library has concentrated on the acquisition of Canadiana. This collection has been augmented by such gifts as the G. M. Douglas Arctic collection, the Perkins Bull collection of prints, and the Lady Eaton collection of Eskimo art. The local collection of materials relating to the Trent Valley has been enriched by the acquisition of family and institutional papers and a wide variety of other archival materials.

The Trent University Library of Religion, incorporating the Bishop Webster Collection, provides printed source material for scholars in religion, philosophy, history and related subjects. In support of the fine arts, the Robert Markon Foundation has recently established an art book collection.

An important feature of library development within the University is the creation of the college libraries. Each college library seeks to provide a basic reference collection and works used in first and second year courses, as well as a browsing collection.

In September, 1967 construction began on the first phase of the permanent University Library. Located immediately to the south of Champlain College, and connected to it by the University Court, this building is expected to open in December, 1968. It is designed to accommodate a collection of more than 370,000 volumes in addition to a reference collection of some 15,000 volumes. There will be seating space for 700 undergraduates, and for 100 graduate students and faculty members. The building will also house the modern language laboratories, a recording studio and a music listening room.

Trent University Library is approved by the federal government as a selective depository for Canadian Government documents. A number of U.S., U.N. and British documents are also received by subscription.

Admission and Registration

ADMISSION REQUIREMENTS

1. NORMAL REQUIREMENTS

To be considered for admission to Trent University, a candidate should normally have Ontario Grade 13 (or equivalent) standing in seven Grade 13 credits, including four subject areas, with an average of at least 60 per cent. English must be one of the four subjects for admission to the Bachelor of Arts program. The University recommends, but does not require, standing in another language.

Applicants wishing to pursue a Bachelor of Science program should normally submit standing in Grade 13 Mathematics A and B and two other science papers. Under certain circumstances applicants will be accepted into the Bachelor of Science program if they have successfully completed either Mathematics A or B. In 1968 Mathematics A and B will be considered as three credits and two subjects.

The following Ontario Grade 13 subjects (or their equivalent) are approved subjects for purpose of admissions to Trent University:

One credit: Biology, Chemistry, Physics, Geography, History, Music or Art. A candidate may not offer both Music and Art.

Two credits: English, French, German, Greek, Italian, Latin, Russian, Spanish or Mathematics A (alone).

Three credits: Mathematics A and B.

In lieu of Ontario Grade 13 Music, standing in one of the following examinations of the Royal Conservatory of Music of Toronto or equivalent is accepted: (i) Grade 8 Practical with Grade 2 Theory; (ii) Grade 4 Theory. If the R.C.M.T. or equivalent examinations are offered, candidates must have the required overall average for the course sought on the academic credits offered. R.C.M.T. or equivalent examination marks are not included in the calculation of the overall average.

Preference will be given those students completing Grade 13 (or equivalent) in one year. *Possession of the minimum requirements does not in itself*

guarantee admission, and the limitation of a residential accommodation makes early application advisable. Applications may be made as soon as Christmas examination results are available.

2. EQUIVALENTS TO ONTARIO GRADE 13

Alberta, Manitoba, Nova Scotia, Saskatchewan—Grade 12

British Columbia, New Brunswick—Grade 13

Newfoundland—First year, Memorial University

Prince Edward Island—Third year Certificate of Prince of Wales College

Quebec—McGill Senior School Certificate, Senior High School Leaving Certificate, English Catholic Senior High School Leaving Certificate (Fifth Year High School—Grade 12)

England and Wales, West Indies, East and West Africa, Hong Kong—General Certificate of Education (or University of Hong Kong Matriculation Certificate), with a) passes in at least five subjects, two of which must be at Advanced Level; or b) passes in four subjects of which three must be at Advanced Level; or School and Higher School Certificate (credits on the School Certificate, and subsidiary passes on the High School Certificate, are equated with ordinary level passes on the General Certificate of Education; principal or main subject passes on the Higher School Certificate are equated with advanced level passes on the General Certificate of Education).

Scotland—The Scottish Leaving Certificate.

U.S.A.—First-year university credits (a minimum of 30 semester hours) from accredited institutions or successful completion of at least three courses of the Advanced Placement Program. Normally, a United States High School Graduation Diploma is not sufficient for admission, but the University invites applications from superior students who have graduated from schools of recognized excellence. Applicants are required to submit College Entrance Examination Board scores.

Students from areas other than those listed above should submit full details and available certificates to the Registrar for evaluation.

3. EXCEPTIONS TO NORMAL REQUIREMENTS

The University is prepared to consider applications from the following:

a) Candidates who, while failing to meet the regular requirements, can satisfy the University that they are likely to be successful in university

work. Such candidates will be considered for admission only if exceptional abilities or circumstances are involved, and should attach to their application a letter giving details that might be helpful to the Admissions Committee. Applications from such candidates cannot normally be considered unless submitted before June 30 of the year in which the applicant seeks admission.

b) Candidates at least 25 years old on January 1 of the year in which they make application, whose academic record shows no major weaknesses, and whose maturity may well compensate for deficiencies in the formal requirements. Such candidates should attach to their applications a letter giving details that might be helpful to the Admissions Committee. Applications from such candidates cannot normally be considered unless submitted before June 30 of the year in which the applicant seeks admission.

4. SPECIAL REQUIREMENTS

a) Candidates from areas where English is not a common language will be required to provide evidence of a knowledge of English sufficient to enable them to profit from their university studies.

b) Candidates wishing to study Chemistry, French, Latin, Mathematics or Physics at the University should have Ontario Grade 13, or equivalent standing in that subject.

b) Candidates wishing to study Biology as a major subject at the University are required to present Ontario Grade 13, or equivalent standing in Chemistry.

d) Candidates who propose to proceed to another university for studies in Medicine or Dentistry should consult the calendar of the university in which they are interested, and this calendar's section on Pre-Professional Studies for details about the entrance requirements for faculties of Medicine and Dentistry in Ontario.

5. ADMISSION WITH ADVANCED STANDING

The University will consider applications from students of other universities for admission with advanced standing. Applicants for advanced standing must send with the application their Ontario Grade 13 certificates, or equivalents, and must arrange for the forwarding of official transcripts of their university records direct to the Registrar of Trent University. To enter with advanced standing, students must complete the regular summer reading assignments.

6. PART-TIME CREDIT STUDIES

Candidates considering a program of part-time credit studies should consult the Academic Program and Academic Standing section of this Calendar.

7. DEBARMENT

No student will be admitted to any year who has failed twice to obtain a year's standing at Trent or another university.

ADMISSION PROCEDURES

Students from the Ontario school system should apply to Trent University on the forms developed by the Ontario Universities' Council on Admissions for General Application for Admission to University. These forms are available through the secondary schools and should be filled out after Christmas Grade 13 marks are available.

By agreement between all Ontario Universities, no university may notify an applicant qualifying to use this form, before May 15, 1968. Early admission will be granted on that date to candidates who have maintained a strong record of achievement throughout secondary school. Strong reliance will also be placed on the confidential assessment of a candidate's potential made by the school principal on the General Application form.

By agreement between the universities, candidates notified of acceptance by a university may not be required to make formal acceptance until June 15, 1968. At this time Trent University will require a \$50 deposit against tuition fees. Such deposits will normally be non-refundable, but the University will consider requests for refunds made by accepted candidates who present a valid petition to the Registrar.

Candidates for admission from outside Ontario, or who are not currently in Grade 13 or are recent graduates, may obtain application forms from the Registrar. Such candidates, including those from Ontario who wrote Grade 13 examinations before 1964, must submit Grade 13, or equivalent, certificates or certified copies of these, showing their standing in each subject. Certificates are not required for the Ontario Grade 13 examinations of 1964 and later years.

Candidates for admission may be asked to attend an interview with the Admissions Committee. Each admitted candidate will receive a medical report form from the University. The form should be completed, prefer-

ably by the candidate's regular physician, and sent to the University Health Service before registration.

Each candidate for admission will be notified of the University's decision concerning his or her application as early as possible, within the limits of the inter-university agreements cited above.

REGISTRATION

Entering students who have been notified of their admission to the University will register in person during the Introductory Seminar. Students will be assigned to colleges as much as possible according to their expressed wishes. It is most important that entering students present themselves to their colleges on the Wednesday before the Introductory Seminar.

Registration is complete when an undergraduate has been informed of his admission by the University, has met with the Head of his College and his Supervisor of Studies, has paid at least the first instalment of his fees, and has completed registration in an approved program of studies. A fee of \$10 may be charged to those registering late.

A fee of \$10 per course may be charged to students altering courses after confirmation of registration. Any change in registration must be completed not later than October 4 in consultation with the undergraduate's supervisor of studies.

Scholarships, Prizes & Student Awards

Trent University has a generous scholarship program designed to reflect its insistence on high standards and to reward and encourage its leading students.

Through the generosity of private donors, about 25 scholarships have been endowed; these scholarships will be awarded to students entering the University and in course. In addition, the University awards a generous number of scholarships to students entering the University with high standing. All scholars of the University hold the title University Scholar.

No separate application for scholarships awarded by the University is necessary since all students with high standing will automatically be considered for them.

All University scholarships may be held in conjunction with other scholarships awarded by external agencies when their conditions permit, up to a normal maximum of \$1,500 in 1968-69. In order to be considered for scholarships, students entering first year must write at least five of the seven credits required for admission in June, 1968. No student applying for admission to the University after August 1, 1968, will normally be considered for a scholarship.

The University endeavours to guarantee all scholarship holders, including those from Peterborough and the surrounding area, places in residence if they wish them.

The Champlain Scholarships

Champlain Scholarships are available for students of exceptionally high academic achievement and promise, whether entering the University or in course. Each scholarship has an annual value of \$1,500 for students living in residence and of \$1,000 for non-residents, and will be renewed each year at full value so long as the holder's work is of high standard.

Ten Champlain Scholarships are available in the academic year 1968-69. Five are open to all students. In addition, one Champlain Scholarship is available to students in each of the following categories:

a) students normally resident in British Columbia, Alberta, Saskatchewan or Manitoba;

- b) students normally resident in Ontario;
 - c) French-speaking Canadians;
 - d) students normally resident in Quebec or one of the four Atlantic Provinces;
 - e) students normally resident in another country.
- Holders are given the title of Champlain Scholar.

The Peterborough Examiner Scholarship

The scholarship, the gift of Peterborough Examiner Co. Ltd., of the value of \$1,200 for one year, is available to an outstanding student entering first or a higher year and living in residence. The holder is given the title of Peterborough Examiner Scholar.

The Trent University Scholarships

Trent University Scholarships of the normal maximum value of \$150 for one year are available to students of high academic achievement entering first or higher years in the University.

The Bata Scholarship

The scholarship, the gift of Thomas J. Bata of Batawa, Ont.—one of the original honorary sponsors of the University and a member of the Board of Governors—is of the value of \$550 for one year. The holder is given the title of Bata Scholar.

The Roscoe F. Downey Scholarships

Two scholarships, the gift of the late Roscoe F. Downey of Peterborough, each of the value of \$100 for one year, are available to entering students, one from Peterborough County and one from Victoria County. Holders are given the title of Roscoe F. Downey Scholar.

The Faculty Scholarship

A scholarship, the gift of a member of the academic staff of Trent University, of the value of \$500 for one year, is available to an entering student living in residence. The holder is given the title of Faculty Scholar.

The Reginald R. Faryon Scholarships

These six scholarships, the gift of the Quaker Oats Company of Canada, are named in memory of the late Reginald R. Faryon, an active member of the founding board of Trent University and a former president of the company. Each Faryon Scholarship is of the value of \$400 for one year. Holders are given the title of Faryon Scholar.

The Rufus Gibbs Scholarships

These scholarships, the gift of Rufus C. Gibbs—a member of a Peterborough family and now resident in Vancouver—each of the value of \$500 for one year, are available for annual award to students in all years, on the basis of academic standing, all-round achievement and character. Holders are given the title of Rufus Gibbs Scholar.

The Institute of Chartered Accountants of Ontario Scholarship

This scholarship, the gift of the Institute of Chartered Accountants of Ontario, of the value of \$300, is awarded to a third-year student with first-class standing in second year.

The Francis Dean Kerr Scholarship

The scholarship, the gift of Mrs. F. D. Kerr of Peterborough, is named in honour of her late husband who was one of the original honorary sponsors of the University, and is of the value of \$550 for one year. The holder is given the title of Francis Dean Kerr Scholar.

The William Allan Newell Scholarship

The scholarship, the gift of Judson Newell of Prescott, Ont., is named in honour of his father, the chairman and founder of the Newell Manufacturing Co. Ltd. Of the value of \$550 for one year, it is available to an entering student proceeding to the degree of Bachelor of Science. The holder is given the title of William Allan Newell Scholar.

The Katherine E. Scott Scholarships

Two scholarships, the gift of Dr. C. M. Scott of Peterborough, are named in honour of his late wife. Each scholarship is of the value of \$550 for one year. Holders are given the title of Katherine E. Scott Scholar.

The H. Clare Sootheran Scholarship

The gift of the late H. Clare Sootheran, a citizen of Peterborough, this \$250 annual scholarship is awarded for excellence in the Faculty of Arts. The holder is given the title of Sootheran Scholar.

Externally awarded scholarships

A number of scholarships (and bursaries) are awarded by bodies outside the University. A number of corporations, for instance, have special programs for dependents of their employees.

Particular attention is drawn to the Ontario Scholarships, which are awarded by the Province of Ontario to outstanding Ontario students. Information and application forms may be obtained from school principals.

SCHOLARS 1967-68

Champlain Scholars

H. A. V. Arthur, Barbados,
West Indies

Miss S. J. Atwood, Camp Borden

L. W. Donkor, Accra, Ghana

Miss B. J. Finlayson, Ottawa

Miss J. F. Henderson, London

Miss M. E. Jackson, London

Miss C. M. Michell, Westmount,
P.Q.

Miss E. A. Ridler, Willowdale

J. S. Stohn, Toronto

C. E. Wright, Gananoque

University Scholars

Miss D. J. Annan, Markham

Miss H. M. Barrett, Willowdale

W. J. Benidickson, Ottawa

M. E. Beswick, Toronto

Miss H. E. Burd, London

Miss P. L. Congdon, Sarnia

Miss S. R. Craig, Pickering

Miss W. E. Cuthbertson, Don Mills

Miss L. S. Dayman, Port Hope

Miss Brenda Firman, Richmond Hill

D. M. Gale, Ottawa

I. W. Gilmour, Toronto

Miss A. H. Goddard, Brighton

Miss J. M. Goodes, Toronto

P. G. Hartwick, Ottawa

W. G. Day, Campbellford

E. J. Howitt, Peterborough

Miss K. E. Jamieson, Ottawa

R. J. Lean, Cobourg

G. E. Madden, Willowdale

Sister M. Josephine, Peterborough

Miss M. J. Potter, Toronto

Miss J. E. Richardson, Campbellford

Miss M. R. Rossister, London

J. R. Salmon, Ottawa

Miss H. C. Sanders, Ottawa

D. A. Ursu, Ottawa

J. R. Upton, Lindsay

Miss L. M. Walker, Burlington

Miss S. T. Williams, Scarborough

Miss D. M. Woods, Toronto

Miss J. B. Wooley, Toronto

Peterborough Examiner Scholar

N. A. Ebrahim, Mtwara, Tanzania

Faryon Scholars

T. A. MacLeod, Renfrew

Sister M. Josephine, Peterborough

W. T. Pakenham, Peterborough

M. F. Waddington, Don Mills

Miss M. E. Zirotf, Peterborough

Francis Dean Kerr Scholar

Sister M. Irene, Peterborough

Rufus Gibbs Scholars

B. F. George, Ottawa

Miss M. C. Gist, Indian River

Miss D. L. Lasenby, Peterborough

Miss S. M. McGill, Amherstburg

Miss J. E. Richardson, Campbellford

Miss J. A. Ullyot, Camp Borden

Miss B. L. Viney, Kenora

Miss L. J. Wilson, Toronto

Bata Scholars

Miss S. M. Avery, Burketon

M. L. Linney, Peterborough

H. Clare Sootheran Scholar

Miss M. R. Lisk, Blenheim

Institute of Chartered Accountants of Ontario Scholar

M. E. Beswick, Don Mills

William Allan Newell Scholars

J. R. Salmon, Ottawa
Miss H. G. Weigand, Koblenz,
West Germany
D. M. Kidd, Peterborough
Miss S. R. Craig, Pickering

I.O.D.E. Centennial Scholars

J. F. Butler, Peterborough
Miss M. F. McIlroy, Peterborough
Miss J. E. Ruth, Omemee
Miss C. J. Parrington, Peterborough
Miss B. J. Dainard, Peterborough

Faculty Scholars

Miss W. E. Cuthbertson,
Don Mills
W. J. Benidickson, Ottawa

Katherine E. Scott Scholars

Miss D. S. M. Maunder, Cameron
Miss M. A. Swiss, Peterborough

PRIZES

The Consul General's Prizes in French

These prizes, the gift of the Consul General of France, are awarded annually to the leading undergraduates in French studies within the University.

The Ambassador of Switzerland Prizes in French and German

These prizes, the gift of the Ambassador of Switzerland, are awarded annually to the undergraduates who have obtained the highest standings in the French and German languages in their graduating year.

The Philip Creighton Writing Prize

This prize, the gift of Philip W. B. Creighton of Toronto, is awarded annually to an undergraduate who shows excellence in writing submitted as part of the regular assignments during the academic year.

The Department of English Literature Prize

This prize, the gift of the Department of English Literature, is awarded to the best students entering the Honours Program in English Literature at the end of the second year of studies in the University.

The Don's Award

This award, the gift of the dons of Peter Robinson College, is given in the Winter Term to a student of Peter Robinson College in any year who has contributed significantly to the life of the College and whose academic performance in relation to his ability is clearly satisfactory. The award will not normally be given to a student twice.

The Fellows' Prize

This prize, the gift of the Fellows of Catharine Parr Traill College, is awarded annually to the student of that College who shows the greatest improvement in academic work in the year.

The Gadfly Prize

This prize, the gift of the academic staff in Philosophy, is available for award annually to the leading undergraduate in Philosophy entering his or her graduating year. The prize commemorates Socrates' description of himself as one who rouses and reproves the society in which he lives just as a gadfly awakens a sluggish horse.

The Honourable Leslie Frost Prize

This prize, the gift of the Chancellor of the University, the Hon. Leslie M. Frost, P.C., Prime Minister of Ontario from 1949 to 1962 and Member of the Legislative Assembly of Ontario for the constituency of Victoria from 1937 to 1963, is awarded annually to the leading undergraduate in the first year course in History.

The Lorna Gibbons Harris Prize

This prize, the gift of Professor Robin S. Harris in honour of the memory of his mother, Lorna Gibbons Harris of London, Ont., is awarded annually to the leading undergraduate in the first year course in English Literature.

The Honourable George S. Henry Prize

This prize, in memory of the Hon. George S. Henry, Prime Minister of Ontario from 1930 to 1934, and Member of the Legislative Assembly of Ontario for the constituency of East York from 1913 to 1943, is awarded annually to the leading undergraduate in the first year course in Politics.

The Ian McLean Creative Writing Prize

This prize, the gift of Mr. Ian McLean of Montebello, P.Q., is awarded annually to an undergraduate who shows excellence in writing submitted as part of regular assignments during the academic year.

The Midwives' Prize

This prize is the gift of the three members of the Universities Liaison Committee who assisted at the birth of Trent University, and who did so much to make the birth a happy one: Professor J. M. Blackburn, then of Queen's University; Dean Frank Stiling, of the University of Western Ontario; and Dr. M. St. A. Woodside, Vice-President of the University of Toronto.

Professor Blackburn, Dean Stiling and Dr. Woodside were named by the heads of their universities to act as a liaison committee between these three universities and the Founding Board of Trent University in its early years. The prize is awarded annually to the undergraduate with the highest overall standing in the first year.

The Peterborough Professional Engineers Wives' Association Prize

This prize, the gift of the association, is awarded to an undergraduate who shows excellence in the second year courses in Physics or Chemistry.

The Victor T. Ridley Memorial Prize

This prize, the gift of Mrs. V. T. Ridley in memory of her husband, Victor T. Ridley of Peterborough, is awarded annually to the leading undergraduate in the first year in Mathematics.

The Honourable Sidney Smith Prize

This prize is named in honour of the Hon. Sidney Smith, Member of the Legislative Assembly of the United Province of Canada for the West Riding of Northumberland from 1854 to 1861, Postmaster General of the United Province of Canada from 1858 to 1862, and elected Member of the Legislative Council for the United Province of Canada for the Trent Division from 1861 to 1863. It is the gift of the Hon. S. Bruce Smith, Chief Justice of Alberta, and of Muriel Turner and H. G. H. Smith, Q.C., of Winnipeg, and is awarded annually to the leading undergraduate majoring in Politics and History in the second year.

The Tom Patterson Fund

The gift of an anonymous donor, this fund has been established to assist an undergraduate wishing to attend the Universities of Canada Stratford Seminar. At the request of the donor this has been named for H. Thomas Patterson, founder and planning consultant of the Stratford Shakespearean Festival Foundation.

RECIPIENTS OF UNIVERSITY PRIZES 1966-67

Consul General's Prize

Miss S. J. Atwood, Camp Borden
Sister M. Irene, Peterborough
J. W. Thorp, Ottawa
Miss B. L. Viney, North Bay
Miss M. E. Ziroff, Peterborough

Philip Creighton Prize

M. F. Waddington, Don Mills

The Don's Award

S. N. Mwaura, Kenya

Lorna Gibbons Harris Prize
M. C. Linney, Peterborough

Honourable George S. Henry Prize
K. B. McLeod, Sault Ste. Marie

Ian M. McLean Prize
Miss S. E. Reiten, Peterborough

Midwives' Prize
Miss B. J. Finlayson, Ottawa

*Peterborough Professional Engineers'
Wives Association Prize*
J. D. Stenabaugh, Deep River

Victor T. Ridley Memorial Prize
Miss B. J. Finlayson, Ottawa

Honourable Sidney Smith Prize
Miss E. A. Ridler, Willowdale

Tom Patterson Fund
Miss M. R. Lisk, Blenheim

Fellows' Prize
Miss M. P. Goodwin, Toronto

Gadfly Prize
G. K. Barr, Sherbrooke, P.Q.

Honourable Leslie Frost Prize
Miss C. G. Gilmore, Kingston

BURSARIES

Philip Black Award

The award is the gift of Isadore and Morris Black of Peterborough in memory of their father, Philip Black—the first Rabbi in Peterborough. Value: \$50.

Reginald R. Faryon Bursary

The award is the gift of the Peterborough Branch of B'nai B'rith in memory of Reginald R. Faryon. Value: \$50.

Peterborough Chapter of Hadassah Bursary

The award is the gift of the Peterborough Chapter of Hadassah. Value: \$100.

Agneta Holt Award

The award is the gift of the University Women's Club of Peterborough as a memorial to the late Mrs. Agneta Holt. The amounts, conditions and recipients are determined by the Club.

Women's Auxiliary Branch No. 575 of Royal Canadian Legion, Bridgenorth, Bursary

The award is the gift of the Women's Auxiliary Branch No. 575 of the Royal Canadian Legion, Bridgenorth, and is for award to a son or daughter of a veteran residing in Smith Township. Value: \$50.

'In Course' Bursaries of the Atkinson Charitable Foundation

These bursaries may be awarded to meritorious Ontario undergraduates in second and higher years. Information is available from the Registrar.

PROVINCE OF ONTARIO STUDENT AWARD PROGRAM

The Province of Ontario and the Government of Canada provide a program of grants and loans to university students through the Province of Ontario Student Awards Program. This program is not based on academic standing but is related to the established need of the student in the individual year of the University. Awards are made by the Department of University Affairs, after assessment of need, and are divided between provincial grants and Canada Student Loans according to a formula established by the Government. Students may obtain details of this program through school officials or from: Student Awards Officer, Department of University Affairs, 481 University Ave., Toronto 2.

Students from outside Ontario who need financial assistance in university are strongly urged to consult with officials in their schools about available loan and bursary assistance. The University has limited bursary funds to assist needy students not eligible for government assistance.

Academic Programs and Standings Required

The Faculty of Arts and Science of the University offers at the undergraduate level both an ordinary program leading in three years to the degrees of Bachelor of Arts and Bachelor of Science, and an honours program leading in four years to these same degrees with Honours. The degree programs are designed to be flexible so that the particular needs and interests of individual students may be satisfied. Each student chooses his program in consultation with his supervisor of studies, who seeks to ensure that the program is coherent and well-ordered.

VACATION READING AND STUDY

The value of the academic program depends to some extent on reading and study done during the vacations, especially during the summer, which is considered an integral part of most courses.

RESIDENTIAL READING AND LABORATORY WEEKS

During residential reading and laboratory weeks, students continue their studies at the University under the guidance and supervision of their tutors. The library and laboratories are open to students during these periods although no formal class meetings or examinations are held.

ASSESSMENT OF STANDING

Work done during term and in the reading periods, any mid-year or other examinations, and any final examinations will be considered in determining an undergraduate's final standing in each course.

GRADES

The passing grades in all courses in all academic years are: first class, second class, third class, and, in minor subjects only, fourth class. An undergraduate with exceptionally high first-class standing will receive a grade of first-class with distinction; and undergraduate with very high second-class standing will receive a grade of upper second class. The failing grades are E and F. In the ordinary program an E grade may permit the writing of a supplemental examination.

In each academic year, undergraduates are informed of their standing in each course and their overall standing in both major subject(s) and year.

Ordinary Program

In the Ordinary Program, undergraduates study five courses in each academic year. In the first year of the three-year program, undergraduates register in one course in each of five subjects. In their second and third years, undergraduates may choose to pursue a single-major or a joint-major program.

1. Single-major program.

This program is designed for the undergraduate who wishes a broad general education, with concentrated work in a single subject to provide a focal point of study. In the second year, a single major program consists of two or three courses in one subject (the 'major' subject), and single courses in other subjects (the 'minor' subjects). In the third year, a single-major program consists of two to four courses in the major subject and three or two courses in minor subjects. Thus, of the 15 courses in the degree program, five to eight are in the major subject.

2. Joint-major program.

This program is designed for the undergraduate who wishes a fairly specialized education in two subjects. In the second year, a joint-major program normally consists of two courses in each of two subjects (the 'major' subjects) and a fifth course in a minor subject. In the third year, a joint-major program consists of two courses in each major subject and a fifth course in either a minor or a major subject. Thus, of the 15 courses in the degree program, five or six are in each of the major subjects.

3. Minor subjects.

While the major subject(s) must be studied throughout the three years of the program, minor subjects need not be continued from year to year. Courses in minor subjects in second and third year need not be chosen from courses primarily prescribed for second and third year respectively, but not more than one course should be chosen from beyond the regular year program.

4. Bachelor of Science in the Ordinary Program.

Undergraduates proceeding to the degree of Bachelor of Science in the Ordinary Program are normally required to take at least 11 courses (of the 15 required for the degree) in Science and Mathematics.

STANDING REQUIRED

For successful completion of an academic year, the following standings are required:

Ordinary Program: First Year

A minimum of fourth-class standing in individual courses, and overall third-class standing are normally required. Third-class standing is required in subjects in which an undergraduate wishes to major.

Ordinary Program: Second and Third Years

A minimum of fourth-class standing in minor courses and overall third-class standing in major subjects, as well as overall third-class standing for each year is required.

Ordinary Program: Supplemental Examinations

One supplemental examination will be permitted, in first year or minor courses in the ordinary program only, (i) when E standing has been obtained in the course concerned, and (ii) when passing standing has been obtained in all other subjects. A supplemental examination must be passed in the following August examinations; if it is not, the student will automatically fail the year. A fee of \$15 is charged for the preparation and grading of each supplemental examination. Candidates for supplemental examinations must submit to the Registrar, by July 15, an application to write a supplemental examination accompanied by the fee of \$15.

Honours Program

1. Four year programs, leading to the degrees of Bachelor of Arts (Honours) and Bachelor of Science (Honours) are available in a majority of disciplines. As the University expands and develops, additional honours programs will be offered. In 1968-69, honours programs will be offered in Anthropology, Biology, Chemistry, English Literature, French Studies, History, Mathematics, Philosophy, Physics, Psychology, Politics and Sociology.
2. Both single-major and joint-major honours programs are available. Students intending to apply for admission to honours programs should consult the chairmen of the departments involved as early as possible.
3. Undergraduates shall normally apply for admission to honours pro-

grams at the end of the second year of university studies. Applications will also be considered from students at the end of their third year of studies. Second-class overall standing and second-class in the proposed field(s) of honours study are normally necessary for admission to the honours program.

4. Overall standing of third-class, and standing of third-class in the major subject(s) is required. However, the Undergraduate Studies Committee may, upon recommendation of a Department, require in certain cases that Honours students scoring low third-class standing either overall or in the major subject(s) shall withdraw from Honours. Fourth-class standing in minor subjects is permitted. No supplemental examinations are permitted.

5. Normally undergraduates study five courses in each of their first three years. In the single-major program, after first year, not less than two courses are in one subject (the 'major' subject). In the fourth year, four or five courses or their equivalent will normally be taken in the major or related subject(s). In some subjects an examination involving an external examiner may be required.

6. A student who has proceeded to fourth year honours studies after completing the normal requirements for an ordinary degree, and who may withdraw or fail in his fourth year, will be granted an ordinary degree.

AEGROTAT STANDING

Petitions for special consideration because of sickness or misfortune should be sent to the Registrar within 48 hours of the close of the examination period together with medical certificates and other material. The University may grant aegrotat standing, or permission to write examinations in August.

UNSATISFACTORY WORK

The University may, at any time, ask any student whose work is unsatisfactory to withdraw from the University.

WITHDRAWAL

A student who withdraws from the University before March 1 of any academic year shall not be granted any academic standing nor suffer any academic penalty. A student who withdraws on March 1 or thereafter shall be deemed to have failed his year.

DEBARMENT

A student who has twice failed to qualify for standing for a year's work, at Trent or another university, will be debarred from the University.

APPEALS

All papers assigned a failing grade and all those assigned upper second-class or first-class grades will be reread by another examiner. Before final publication the standings of each undergraduate will be reviewed by a Committee of the Senate. Nevertheless, every student has the right to appeal against standing assigned on any paper regardless of whether it received pass or failing standing. A fee of \$15 will be charged for the handling of an appeal, but the fee will be refunded if a grade is raised. All appeals should be made in writing to the Registrar.

GRADUATE STUDIES

Programs of graduate studies, leading to the degrees of Master of Arts, Master of Science and Doctor of Philosophy, will be available in a few areas of studies to a limited number of graduate students. Further information concerning these programs is available from the Dean of Graduate Studies.

PART-TIME CREDIT STUDIES

The Part-time Credit Studies program at Trent University provides citizens of the Peterborough and Trent Valley area, whose schedule does not permit full time attendance, an opportunity to pursue one or two courses of study during the day and in the evening of the normal academic year, or in the summer months.

Procedures and requirements for admission to the part-time program are identical to those of the full-time academic program. It is hoped that, as in the past, many students will continue to pursue courses during the day along with the regular undergraduates. However, for those who find it impossible to attend during the day, a number of lectures and seminar classes will be offered in the evening. Although first year courses will dominate the offerings in 1968-69, it is expected that a wider selection of disciplines and year levels will be available in future years.

Courses offered by the Faculty of Arts and Science to part-time students will be equal in content and standard to those offered to the regular undergraduate.

Courses of Study

ANCIENT HISTORY

Details of courses are given under *Classical Studies*.

ANTHROPOLOGY

Professor of Anthropology and Chairman of the Department

K. E. Kidd, M.A.

Associate Professor

K. A. Tracey, D.Sc.

Assistant Professors

P. D. Harrison, M.A.; E. M. Todd, B.A.; C. H. Torok, M.A., PH.D.;
R. Vastokas, M.A.

Anthropology may be studied as a minor subject, or as a single-major or joint-major in the ordinary and honours programs. *Anthropology 10* is a normal prerequisite to all other courses in Anthropology.

Anthropology 10

Introductory Anthropology: A survey of the four fields of anthropology presented in parts, titled: Physical Anthropology, Archaeology, Cultural Anthropology, and Linguistics. Major topics of discussion will be human development, and a brief survey of selected Old World and New World archaeological regions, patterns of culture among pre-literate societies, and an examination of structural linguistics. Two hours of lectures and demonstrations a week.

Anthropology 20–Sociology 23

Cultural Anthropology: An analysis of the dimensions of culture in pre-literate societies, considered in terms of technology, social organization and ideology, including a survey of current approaches to the study of culture. Prerequisite: *Anthropology 10* or permission of instructor. One lecture and one seminar a week.

Anthropology 21

Introduction to Archaeology: An analysis of archaeological problems in

the field and the laboratory, and a survey of the archaeological record of selected areas in the Old World and the New. One lecture and one seminar-laboratory a week.

Anthropology 22

Introduction to Physical Anthropology: A study of man's evolutionary development, the physical characteristics of the living races of mankind and an introduction to human genetics. Two hours a week of lectures, laboratories and tutorials.

Anthropology 30

Cultural Dynamics: An appraisal of the resources of anthropology in the study of cultural stability and change, and a critical survey of conscious use of anthropological information and theory in the introduction of new ideas and techniques. Two hours of seminars a week.

Anthropology 31

Indians in Canada: A study of the prehistoric background and modern groups of Indians in Canada at the time of historic contact, including observations on physical, economic, cultural and linguistic groupings. Prerequisite: *Anthropology 10* or permission of instructor. Enrolment may be limited. Two hours of lectures and tutorials a week.

Anthropology 32

Introduction to Linguistics: The essentials of descriptive and historical linguistics, and the role of language in culture. Prerequisite: *Anthropology 10* or permission of instructor. Two hours of lectures and tutorials a week.

Anthropology 33

Historical Archaeology of Canada: An examination of the results of excavation on sites of the historic period in Canada, both Indian and non-Indian, with a view to assessing their contribution to knowledge of the period. Underwater archaeology of the area included. Prerequisites: *Anthropology 21* or permission of instructor. Enrolment may be limited. One seminar and one tutorial a week.

Anthropology 34

Peoples and Cultures of Africa: This course will deal with the development of early man in Africa, the background of early racial amalgamation, and the physical characteristics of the living races of Africa as well as a study of African culture and history before and after the era of European domination. One hour of seminar and one hour of tutorial a week.

Anthropology 40

History and Theory of Anthropological Thought: A discussion of principal trends in anthropological thinking from the mid 19th century to the present. 'Schools' of cultural anthropology such as evolutionism, historicism, diffusionism, structural-functionalism, neo-evolutionism and componential analysis will be treated in an exclusively tutorial setting. Prerequisites: *Anthropology 32*. Enrolment may be limited. Two hours of tutorials a week.

Anthropology 41

Mesoamerican Archaeology: The prehistory of Mesoamerica, from the Early Man period to the high civilizations, with particular attention to agricultural development and to the growth of civilizations in the various cultural regions of the area. Prerequisite: *Anthropology 21*. Enrolment may be limited. Two hours of seminars a week.

Anthropology 42

Ethnohistory of Canada: A study of the principles of ethnohistorical research with special attention to their applicability to Canadian materials; and of the native cultures as reported in documentary sources, their interactions with the invading European cultures, and some of the problems arising therefrom. Both historical source materials and archaeological evidence will be surveyed. Prerequisites: *Anthropology 10, 31* and *History 10* and *31*, or permission of instructor. Enrolment may be limited. Reading course, one hour a week. (Formerly *Anthropology 31*).

Anthropology 43

Advanced Physical Anthropology: Demonstration and practice in the use of anthropometric, dermatoglyphic and serological techniques in physical anthropology. Prerequisite: *Anthropology 22*. Enrolment may be limited. Two hours of tutorials, term projects and laboratories a week.

Anthropology 44

Advanced Linguistics: Selected problems in descriptive linguistics, genetic classification and linguistic field methods. Prerequisites: *Anthropology 22* or consent of instructor. Enrolment may be limited. Two hours of seminars and tutorials a week.

Anthropology 45

The Arts of Africa, Oceania and the Americas: An introduction to the

visual arts of the traditional cultures of Africa, Oceania and the Americas. Two hours of seminars and tutorials a week.

Anthropology 46

Algonquian Linguistics: Principles of linguistic analysis and reconstruction applied to languages of the Algonquian family. Detailed study of phonology, morphology and syntax of selected Algonquian languages spoken in Canada, especially Ojibway and Cree. Seminars and tutorials.

BIOLOGY

Professor of Biology and Chairman of the Department

R. L. Edwards, M.A., D.PHIL, M.R.E.S.

Professor

J. C. Ritchie, PH.D., D.SC.

Associate Professor

J. E. Nighswander, B.SC.F., PH.D.

Assistant Professors

Michael Berrill, M.SC.; Roger Jones, M.SC., PH.D.; Mrs. Sharon Grace Lawrence, B.A., PH.D.; I. M. Sandeman, B.SC.; D.W. Schindler, B.S., D.PHIL.

Demonstrators

M. Jean Gillespie, M.A.; Christine D. Maxwell, B.SC.; Frances D. Stewart, M.D.

Biology may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary or honours programs.

Biology as a minor subject: One or more Biology courses for which the necessary prerequisites have been obtained.

Biology in the single-major program: This program is designed for students who wish to have a broad knowledge of Biology by the end of their third year. It is particularly suitable for those planning to complete Honours and undertake graduate work. Seven courses in Biology (*Biology 10, 20, 21, 22, 30, 31 or 33* and one other) and two courses in Chemistry (*Chemistry 10* and *21*) are required. One more course in Biology, making a total of eight, may be taken in the third year. In addition, students are recommended to take *Statistics 20* and *Physics 10* in their first year and *Chemistry 33* in their third year.

The recommended course pattern for the first three years of a single-major program in Biology is:

First Year. *Biology 10*, *Chemistry 10*, *Statistics 20*, two electives, one of which should be *Physics 10*.

Second Year. *Biology 20*, *21*, and *22*, *Chemistry 21*, one elective.

Third Year. *Biology 30*, *31* or *33*, one other Biology course and two electives, one of which may be another Biology course. For those planning to specialize in Physiology, *Chemistry 33* is recommended.

Biology in the single-major program for honours. Students wishing to take Honours Biology must fulfill the requirements for a single-major program in Biology and in addition take five approved courses in their fourth year. Some of these courses may be in related subjects, but *Biology 32* must be included if it has not been taken in a previous year. At the end of their third year students planning to complete Honours in Biology must obtain the approval of the department chairman before arranging their fourth-year courses.

Biology in a joint-major program. In the joint-major program, Biology may be taken in combination with another science subject or with some arts subjects. Suitable combinations are Biology-Psychology and Biology-Anthropology, but students planning to become secondary school teachers are advised to take a joint degree in Biology and Chemistry. Five or six courses in Biology and five or six courses in the other subject are required for a joint degree. Students should consult the chairmen of the respective departments regarding their programs of studies.

Biology 10

General Biology: A presentation of biological principles as displayed by both animals and plants. Two lectures and one three-hour laboratory period a week, tutorial every four weeks. No prerequisites.

Biology 20

The animal kingdom: A comparative study of the main groups of animals, their structure, development, physiology, life history, and phylogenetic relationships. One lecture, one three-hour laboratory period, and either one seminar or one tutorial a week. Prerequisite: *Biology 10*. Students with outstanding records in Grade 13 may, in the first instance

seek permission of the department chairman to take this course or *Biology 21* in their first year.

Biology 21

The plant kingdom: A comparative study of the main groups of plants, their structure, development, physiology, life history, and phylogenetic relationships. Two lectures, one three-hour laboratory period a week, tutorial every two weeks. Prerequisite: *Biology 10*. Students with outstanding records in Grade 13 may, in the first instance, seek permission of the department chairman to take this course or *Biology 20* in their first year.

Biology 22

Evolution and genetics: A study of the theory and processes of evolution with special emphasis on the genetic aspects. One lecture, one three-hour laboratory period, and either one seminar or one tutorial a week. Prerequisite: *Biology 10*. *Statistics 20* is recommended.

Biology 30

General ecology: The relationship of plants and animals to their biotic and abiotic environment. One lecture and either a seminar or a tutorial every week; two three-hour laboratory periods every two weeks. Prerequisites: *Biology 20* or *21*. *Statistics 20* is recommended.

Biology 31

General physiology: The general principles governing physiological processes in cells as a basis for functional relationships in complex organisms. One lecture, one three-hour laboratory period and either one seminar or one tutorial a week. Prerequisites: *Biology 20* or *21*; *Chemistry 21* is normally a prerequisite but may be taken as a corequisite.

Biology 32

General cytology: Microscopic structure and chemical composition of cytoplasmic and nuclear components of cells and tissues. Relation of the cell to fundamental genetic principles. One lecture, one three-hour laboratory period and either one seminar or one tutorial a week. Prerequisites: *Biology 20* or *21*; *Biology 22*. *Chemistry 21* is normally a prerequisite but may be taken as a corequisite.

Biology 33

Plant physiology: The main physiological processes of plants with special emphasis on nutrition. One lecture, one three-hour laboratory period and

either one seminar or one tutorial a week. Prerequisites: *Biology 21*. *Chemistry 21* is a normal prerequisite but may be taken as a corequisite.

Biology 40

Entomology: The morphology, anatomy, physiology, behaviour, classification, ecology and economic importance of insects. Special emphasis will be placed on aquatic insects where appropriate. One tutorial and one three-hour laboratory period a week. Prerequisite: *Biology 20*. This course is open to students in their third or fourth years. (Not offered in 1969-70).

Biology 41

Plant ecology: Quantitative and dynamic aspects of plant eco-systems; ecological aspects of speciation; physiological ecology; applied plant ecology. One tutorial and one three-hour laboratory period a week. Prerequisites: *Biology 21* and *30*.

Biology 42

Limnology: Biology, geochemistry and physics of fresh water lakes. One tutorial and one three-hour laboratory period a week. Seminars by arrangement. Prerequisites: *Biology 30* or *Biology 10* and *Chemistry 20*.

Biology 43

Parasitology: The biology of animal parasites. One tutorial and one three-hour laboratory period a week. Prerequisite: *Biology 20*. This course is open to third year and fourth year students majoring in Biology.

Biology 44

Mycology: An introduction to mycology, including a survey of the principal fungal orders. One tutorial and one three-hour laboratory period a week. Prerequisites: *Biology 21* and *Biology 31* or *32*.

Biology 45

Microbiology: Selected aspects of the physiology of bacteria, lower fungi, unicellular algae and protozoa. One tutorial and one three-hour laboratory period a week, with other time by arrangement. Prerequisites: *Biology 31* or any course in Biology and *Chemistry 33*.

CHEMISTRY

Professor of Chemistry and Chairman of the Department

G. O. Aspinall, PH.D., D.S.C., F.R.I.C., F.R.S.E.

Professor

S. A. Brown, B.S.A., M.S., PH.D., F.C.I.C.

Associate Professors

R. E. March, PH.D.; A. H. Rees, M.A., PH.D., F.R.I.C.; R. A. Stairs, M.SC., PH.D.

Assistant Professors

R. G. Annett, B.SC.; P. F. Barrett, M.SC., PH.D.; I. D. Chapman, M.A.

Senior Demonstrator

Mrs. M. L. Amyotte, B.SC.

Chemistry may be studied as a minor subject, as a single major, or joint major subject in the ordinary and honours program. Students planning to major in Chemistry are normally required to have taken Chemistry, and are advised to take Physics and Mathematics at Grade 13 level. *Chemistry 10* is the prerequisite for all other courses in Chemistry.

Students entering the first or second year should note the major program in Chemistry should consist of at least six courses in the subject including *Chemistry 10, 20, 21, 30* and *31*. Those hoping to be admitted to the honours program in Chemistry, should normally take seven courses in the first three years, those five required for the major program, and in addition, *Chemistry 24* and either *Chemistry 32* or *33*. They should note that *Chemistry 24* is a required course for those hoping to attain to professional membership of the Chemical Institute of Canada.

Students entering the third year of study of Chemistry as a major subject should take *Chemistry 30, 31* and either one or two other courses in Chemistry from *Chemistry 24, 32* and *33*.

Students entering the fourth year of the honours program will normally take five courses in Chemistry although one course in another subject may be substituted. *Chemistry 40* and *49* are required courses.

It should be noted that *Mathematics 10* is a prerequisite for *Chemistry 20* and succeeding courses in Physical Chemistry. *Physics 10* is strongly advised as a first-year course, especially for students wishing to specialize in Physical/Inorganic Chemistry, since these students may wish to take further supporting courses in Physics. *Biology 10* is a recommended course for those wishing to take courses in Biochemistry.

Chemistry 10

General Chemistry: An introductory course in physical and inorganic chemistry. Atoms, molecules, crystals, chemical binding, ions, electrolysis, reaction rate, equilibrium, inorganic and organic descriptive chemistry. Two lectures, one laboratory a week; one tutorial fortnightly.

Chemistry 20

Elementary Physical Chemistry: This course emphasizes both the macro and the molecular approach to physical chemistry. Topics include: kinetic theory of gases; first, second, third, laws of thermodynamics with particular attention to such concepts as entropy, free energy, chemical potential, and equilibrium; properties of ideal and non-ideal liquids and solutions (both electrolytic and non-electrolytic solutions); chemistry of electrical cells and chemical kinetics. Prerequisite: *Mathematics 10*. One tutorial or seminar, one lecture and three laboratory sessions a week.

Chemistry 21

Elementary Organic Chemistry: Structure, synthesis, and reactions of the principal classes of organic compounds, with an introduction to principles underlying reaction mechanisms and stereochemistry. One lecture, one laboratory a week, plus a fortnightly tutorial, and a seminar or additional lecture.

Chemistry 24

Analytical Chemistry: The theory and practice of classical and instrumental analytical chemistry, including volumetric, gravimetric, electrical and optical and other spectrometric methods, and chromatography. Applications to both inorganic and organic analysis. Emphasis is upon the physical and chemical principles, rather than on details of procedure. Two lectures, tutorials or seminars weekly, and one laboratory a week. (Formerly *Chemistry 34*). Open to second and third year students.

Chemistry 30

Physical Chemistry: Introduction to quantum chemistry, chemical bonding, statistical mechanics, spectroscopy, electrochemistry and theory of reaction rates. Prerequisite, *Chemistry 20*. Two lectures, tutorials or seminars weekly, and one laboratory a week.

Chemistry 31

Organic Chemistry: A study of aliphatic, aromatic, and heterocyclic

compounds, with stress on modern methods and concepts in stereochemistry, reaction mechanisms, and physical properties. Prerequisite, *Chemistry 21*. One lecture a week, one tutorial and one seminar in alternate weeks, one laboratory a week.

Chemistry 32

Inorganic Chemistry: Atomic structure and its relation to chemical properties of the element, valence theory, stereochemistry of inorganic compounds, co-ordination compounds, oxidation potentials. Prerequisite, *Chemistry 20*. Two lectures, tutorials or seminars and one laboratory a week. (Formerly *Chemistry 42*). Open to third and fourth year students.

Chemistry 33

General Biochemistry: An introduction to the chemistry of animals, higher plants, and micro-organisms, including composition of tissues, nature of enzymes and biocatalysis, energy relationships, formation and degradation of metabolically important compounds, and control of metabolism. Prerequisite, *Chemistry 21*; *Biology 10* and *Chemistry 20* also desirable. One lecture a week, one tutorial and one seminar in alternate weeks, and one laboratory a week.

Chemistry 40

Advanced Physical Chemistry: The colloidal state. Electrical double layer and electrophoresis. Polymers: polymerisation, structure and physical properties. Surface chemistry. Thermodynamics of interfaces. Adsorption, interfacial tensions, emulsions and catalysis. Polymer degradation. Fast reactions in solution. Bioluminescence and chemiluminescence. Prerequisite, *Chemistry 30*. Two lectures, tutorials or seminars a week. Required course for Honours Chemistry students.

Chemistry 41

Physical-organic Chemistry: Mechanisms of organic reactions, including substitution, elimination, addition and insertion reactions, and molecular rearrangements. Applications of physical methods in organic chemistry, including ultra-violet, infra-red, nuclear magnetic resonance, and mass spectroscopy, optical rotatory dispersion, and circular dichroism. Prerequisite, *Chemistry 31*. Two lectures, tutorials or seminars a week.

Chemistry 43

Advanced Biochemistry: Current concepts in theory and methods of

biochemistry, including enzyme kinetics and mechanisms, metabolic regulation, structure-function relationships of macromolecules, selected topics in metabolic pathways, applications of enzymological and isotopic techniques. Prerequisite, *Chemistry 33*. One lecture a week, one tutorial and one seminar in alternate weeks. Students taking Chemistry as a minor subject will attend the laboratory for six hours per week during the first term.

Chemistry 45

Selected topics in Physical Chemistry: Heterogeneous processes. Microwave spectroscopy and molecular structure. Mechanisms and kinetics of free radical reactions with particular emphasis on combustion processes. Radiation and photochemistry. Electrolytes. Prerequisite, *Chemistry 30*. Two lectures, tutorials or seminars a week.

Chemistry 46

Selected topics in Organic Chemistry: Chemistry of five and six membered ring compounds containing two hetero atoms. Chemistry of miscellaneous drugs, and selective groups of natural products, including vitamins, carbohydrates and terpenes. Prerequisite, *Chemistry 31*. Two lectures, tutorials or seminars a week.

Chemistry 49

Experimental Chemistry: Selected experiments from various branches of chemistry, according to the student's field of specialization. A purely laboratory course occupying at least nine hours per week. Required course for Honours Chemistry students.

CLASSICAL STUDIES

Associate Professor of Classics and Chairman of the Department

B. P. Reardon, M.A.

Professor in Ancient History

Gilbert Bagnani, D.LITT., F.R.S.C.

Assistant Professors

Miss Janet P. Bews, M.A., PH.D.; D. R. F. Page, B.A.; A. M. Young, M.A., PHIL.M.

Courses are offered in Latin, in Greek, in Ancient History, and in Greek and Latin Literature in translation.

Both Latin and Greek may be studied as major or joint-major subjects in the ordinary program, or as minor subjects. Ancient History and Greek and Latin Literature in translation may be studied as minor subjects.

LATIN

Ontario Grade 13, or its equivalent, is normally prerequisite to the study of Latin. *Latin 10* is a prerequisite for all other courses in Latin.

a) Latin as a single-major in the ordinary program: *Latin 10, 20, 21, 30, 31, 32*, and *Ancient History 20*. Strongly recommended: a second Ancient History course.

b) Latin in a joint-major ordinary program: *Latin 10, 20, 21* and two other Latin courses. Recommended: *Ancient History 20*.

GREEK

Greek 11 is the same course as *Greek 20*, with Ontario Grade 13 or equivalent as a prerequisite. *Greek 10* or *11* is a prerequisite for all other courses in Greek.

a) Greek as a single-major in the ordinary program: either *Greek 10, 20, 21, 30, 31, 32* and *Ancient History 10* or *Greek 11, 21, 30, 31, 32*, and *Ancient History 10*. Strongly recommended: *Ancient History 20* and/or *30*.

b) Greek in a joint-major program: *Greek 10, 20, 21, 30* and another Greek course or *Greek 11, 21, 30, 31, 32*. Recommended; *Ancient History 10*.

Classics

a) *Latin 10, 20, 21, 30, 31, 32* and either *Greek 10, 20* and either *21* or *30*, or *Greek 11, 21*, and *30*.

b) *Greek 10, 20, 21, 30, 31, 32*, or *Greek 11, 21, 30, 31, 32*, and *Latin 10* and two other Latin courses.

c) Joint-major in Latin and Greek: *Latin 10, 20, 21* and two other Latin courses and *Greek 10, 20, 21, 30* and one other Greek course or *Greek 11, 21, 30, 31, 32*. and at least one of *Ancient History 10, 20, 30*.

GENERAL REMARKS

a) *Latin 20* and *21* alternate with *Latin 30, 31* and *32*: in 1968-69 *Latin 20* and *21* will be offered, both to second- and to third-year undergraduates.

b) All Greek courses are offered every year.

Latin 10

Studies in Latin language and literature: Pliny, *Letters*; Catullus; Livy. One lecture, one tutorial weekly.

Latin 20

Epic poetry: Virgil; Ovid, *Metamorphoses*; Lucan. One seminar, one tutorial a week.

Latin 21

History: Cicero, *Philippics*; Sallust, *Catiline*; Livy. One seminar, one tutorial a week.

Latin 30

Philosophy, didactic poetry: Cicero; Lucretius; Virgil, *Georgics*; Seneca, *Letters*. (Not offered in 1968-69.)

Latin 31

Comedy, Satire, Lyric Poetry: Plautus, Terence, Horace, Propertius. (Not offered in 1968-69.)

Latin 32

The Silver Age: Tacitus, Juvenal, Petronius, Quintilian. (Not offered in 1968-69.)

Greek 10

Beginners' Greek. Four tutorials a week.

Greek 20 (also Greek 11)

Prose authors: Plato, *Crito*; Herodotus; Attic Orators. Two tutorials a week.

Greek 21

Epic poetry: Homer. Two tutorials a week.

Greek 30

Tragedy: Aeschylus, *Prometheus Bound*; Sophocles, *Antigone*; Euripides, *Hippolytus*. Two tutorials a week.

Greek 31

History: Thucydides; Plutarch, *Alcibiades*; Xenophon, *Hellenica*; Demosthenes, *Philippics*. Two tutorials a week.

Greek 32

Poets and critics: lyric poetry, Plato, *Republic*; Aristophanes, *Frogs*; Aristotle, *Art of Poetry*. Two tutorials a week.

Ancient History

The following courses may be counted for credit towards a major in Latin, Greek, Classics or History according to the regulations governing programs in these disciplines and on the approval of the department concerned. Enrolment may be limited in some courses; preference will normally be given to students enrolled in a Classics or History program.

Ancient History 10

The history of Greece to the Hellenistic period. One lecture and seminar a week.

Ancient History 20

The rise and decline of the Roman Republic. One lecture and seminar a week.

Ancient History 30

The Roman Empire from Augustus to Constantine, with special emphasis on social and economic developments and the rise of Christianity. Weekly lecture and seminar.

Ancient History 40

The later Roman Empire, from Constantine to Justinian; the transition from classical to mediaeval culture, with special reference to the establishment of Christianity. Weekly seminar and tutorial.

Greek and Latin Literature in Translation

The following courses do not count for credit towards a major in Latin, Greek or Classics, but may be counted for credit towards a major in English, on the recommendation of the Department of English. Courses are open to students in any year; it is, however, recommended that *Greek and Latin Literature 10* be taken in first year.

Greek and Latin Literature 10

Study in translation of major Greek and Latin literary works: Homer, *Odyssey*; Sophocles, *Oedipus Tyrannus*, *Antigone*; Euripides, *Bacchae*; Aristophanes, *Clouds*; Plautus, *Menaechmi*; Seneca, *Oedipus*; lyric verse; Plutarch, selected *Lives*; Longus, *Daphnis and Chloe*; Lucian, selected works. One lecture, one tutorial.

Greek and Latin Literature 20

Study of selected areas of Greek and Latin Literature:

- a) The Trojan theme: Homer, *Iliad*; Aeschylus, *Oresteia*; Sophocles, *Electra*; Euripides, *The Trojan Women and Electra*.
- b) Rome: Virgil, *Aeneid*; Livy, *History of Rome*; Ovid, *Metamorphoses*; Horace, *Satires*; Juvenal, *Satires*.
- c) Literary criticism: Aristotle, *Art of poetry*; Horace, *Art of poetry*.
- d) Late antiquity: Apuleius, *The Golden Ass*; Heliodorus, *Ethiopica*. (Not offered 1968-69.)

ECONOMICS

Professor of Economics and Chairman of the Department

M. J. Boote, PH.D.

Professor

W. D. R. Eldon, A.M., PH.D.

Assistant Professors

W. T. Hunter, B.COM., M.A.; H. W. Kitchen, M.A.

Economics may be studied as a minor subject, as a single-major, or as a joint-major subject in the ordinary program. *Economics 10* is a prerequisite for all other courses in Economics.

A student taking a single-major in Economics must take six courses, including *Economics 10, 20, 21, 30, and 31*. An Economics major may include only one of *32 and 33*. Students majoring in Economics are advised to select a combination of courses from among related disciplines: Anthropology, History, Mathematics, Politics, Psychology, Sociology. *Mathematics 10 or 11* is particularly recommended. The teaching method in Economics gives greater emphasis to lectures in the first year than in later years; seminars or tutorials are given in all courses.

Economics 10

Principles of Economics; The price system, determinants of national output, international trade.

Economics 20

The price system: Principles of price theory and resource allocation, supplemented by study of various forms of governmental intervention in Canadian markets.

Economics 21

Statistical concepts and their application to Economics.

Economics 30

National output, employment, growth.

Economics 31

International trade, balance of payments, development.

Economics 32–Politics 32

Public finance with emphasis on the Canadian economic and political systems. An inter-disciplinary course offered jointly by the Departments of Economics and Politics.

Economics 33

The Canadian economy: Selected topics. (Formerly *Economics 32*).

ENGLISH LITERATURE

Associate Professor of English Literature and Chairman of the Department

R. D. Chambers, B.A., B.LITT.

Professor

Miss B. E. Rooke, M.A., PH.D.

Associate Professor

M. J. Sidnell, M.A., PH.D.

Assistant Professors

A. G. Fisher, M.A.; Miss E. M. Orsten, M.A., PH.D.; R. H. Sadleir, M.A.

Lecturers

G. D. Eathorne, M.A.; J. P. O'Flinn, B.A., B.LITT.; Mrs. G. A. Sandeman, B.A.; J. M. Treadwell, B.A.

English Literature may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

The regular courses for undergraduates studying English are as follows:

- a) English as a minor subject in ordinary and honours programs: *English 10* or *English 11*, and two further courses taken in the appropriate years;
- b) English as a single-major subject in the ordinary program: *English 11*, *20*, *21*, and three further courses;
- c) English as a joint-major subject in the ordinary program: *English 11*, *20*, *21*, and two further courses;

d) English as a single-major subject in the honours program: *English 11*, 20, 21, 22, 30, 31, 32, and a minimum of four additional courses to be approved by the department;

e) Students wishing to take a joint-major honours program in English and a related subject should consult with the department.

Requests to substitute alternative courses for those regularly prescribed will be considered individually.

All courses in English Literature normally include a minimum of one lecture hour each week and fortnightly tutorials.

In all English courses, students will be expected and encouraged to pursue special studies in authors, fields and topics of particular interest to them.

First-year courses: *English 10* is designed for students who do not intend to pursue major or honours studies in English; *English 11* is the normal beginning course of the major and honours programs. These two courses may not be taken concurrently in the same year of studies. Students who have completed *English 10* and then wish to major or honour in English should subsequently take *English 11*.

English 10

Studies in English literature. The course concentrates on the work of a few major poets, dramatists and novelists.

English 11

Studies in Shakespeare's plays.

English 20

Studies in English literature of the Renaissance, with special attention to Spenser, Donne, and Milton.

English 21

Studies in English poetry of the 19th Century.

English 22

Studies in Chaucer.

English 23

Studies in American literature of the 19th Century.

English 30

Studies in English literature of the Restoration and 18th Century.

English 31

Studies in English drama to the 18th Century. (Not offered in 1968-69.)

English 32

Studies in English prose and fiction of the 19th Century.

English 33

Studies in Old English language and literature. (Not offered in 1968-69.)

English 34

Studies in modern literature. (Available normally only to students pursuing honours studies in English.)

Fourth-year courses: Students undertaking a fourth year of studies in English should arrange their program of studies in consultation with the department.

English 40

Honours Colloquium in Bibliography and Textual Criticism.

English 41

Criticism.

English 42

Shakespeare. (Not offered in 1968-69.)

English 43

17th Century literature.

English 44

Anglo-Irish literature.

English 45

American literature. (Not offered in 1968-69.)

English 46

Canadian literature.

English 49

Special author or Topic.

FRENCH STUDIES

Associate Professor of French and Acting Chairman of the Department

J. C. Morisot, L.-ES-L., E.N.S., D.E.S., AGR. DES L.

Assistant Professors

G. Cohen, L.-ES-L., D.E.S.; G. Defaux, L.-ES-L., E.N.S., D.E.S., AGR. DES L.; J. Le Dreff, M.A.; J-L. Mercié, L.-ES-L., D.E.S., DR:ES.L.; Mrs. B. P. Reardon, L.-ES-L., B.A.

Lecturer

D. M. Jackson, M.A.

French may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs. The normal prerequisite is Grade 13 French or its equivalent.

All courses involve regular language laboratory practice and extensive work in the writing of French. Emphasis is thus placed upon increasing students' ability to write and speak the language, as well as upon developing their awareness of French civilization in general and of French literature in particular.

The Department of French studies is currently reviewing its course offerings and expects to offer an additional course at the first year level. Students wishing to take French as either a minor or major subject are advised to contact the Department in the spring.

French 10

Survey of French Literature, from the Middle Ages to the present; French civilization (one lecture a week). Composition (one seminar a week). Oral French (one seminar a week). Laboratory practice (one hour a week).

French 20

French literature of the 17th and 18th Centuries—theatre, poetry and novel: works by Corneille, Racine, Molière, Marivaux, Beaumarchais, Boileau, La Fontaine, Chénier, Prévost (two lectures a week). Composition (one seminar a week). Laboratory practice (one hour a week). Prerequisite: *French 10*.

French 21

French literature of the 17th and 18th Centuries—thinkers and moralists: Descartes, Pascal, La Rochefoucauld, La Bruyère, Montesquieu, Diderot, Rousseau, Voltaire, (two lectures a week). Oral French (one seminar a week). Available only to students majoring in French.

French 30

French theatre from 1880 to the present: Becque, Claudel, Giraudoux, Anouilh, Sartre, Monterlant, Camus, Ionesco. French-Canadian literature (two seminars a week). Composition (one seminar a week). Laboratory practice (one hour a week). Prerequisite: *French 20*.

French 31

French poetry from Nerval to the present: Nerval, Hugo, Baudelaire, Verlaine, Rimbaud, Mallarmé, Valéry, Claudel, Apollinaire (two seminars a week). Oral French (one seminar a week). Available only to students majoring in French.

French 32

The French novel from Balzac to the present: Balzac, Stendhal, Flaubert, Zola, Gide, Proust, Mauriac, Saint-Exupéry, Sartre, Camus, Malraux (two seminars a week). Stylistics (one seminar a week). Available only to students majoring in French.

French 40 Honours

French Renaissance (16th Century), with intensive study of Rabelais, Montaigne, Marot, Ronsard, Du Bellay and d'Aubigné. Prerequisite: *French 30*. (Two tutorials a week).

French 41 Honours

Mediaeval French language and literature. Available only to students majoring in French (two tutorials a week).

French 42 Honours

French literary criticism. Available only to students majoring in French (two tutorials a week).

French 43 Honours

Linguistics. Composition. Available only to students majoring in French (two tutorials a week).

GEOGRAPHY

Associate Professor of Geography

W. P. Adams, M.Sc., Ph.D.

Assistant Professor

F. M. Helleiner, M.A.

Courses in Geography will be introduced in 1968-69. A course in Physical Geography will be available to first-year students, and at least one second-year course, possibly on Canadian Geography will be offered. It is intended to expand the Department of Geography over the next few years.

GERMAN

Associate Professor of German and Chairman of the Department

D. D. Stewart, M.A., PH.D.

Lecturers

J. C. Fewster, M.A.; Miss J. J. W. Plumptre, B.A.

German may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary program.

German 10

Designed for students with little or no knowledge of German, this course provides an introduction to German grammar with intensive oral practice in the language laboratory. Students are not permitted to take both *German 10* and *Spanish 10* in the same year. Two lectures, one seminar, two laboratory hours a week.

German 11

A survey of the history of German civilization, with special attention to the literature and thought of the period 1850-1950; grammar review, composition and conversation. An important part of the oral work will be carried on in the language laboratory. Prerequisite: Grade 13 German, or *German 10*, with at least second class standing, or permission of the department. One lecture, two seminars, two laboratory hours a week.

German 20

German literature and thought from Nietzsche to Brecht. Prerequisite: *German 11*, or permission of the department. One lecture, two seminars a week.

German 21

The Age of Goethe I. A study of the beginnings of modern German literature, with special attention to Lessing, Goethe and Schiller. Composition. Prerequisite: *German 11* or permission of the department. One lecture, one seminar, one tutorial, two laboratory hours a week.

German 30

The Age of Goethe II. A study of the literature of the period 1790-1832 with emphasis on Goethe, Schiller, Hölderlin and Grillparzer; Composition. Prerequisite: *German 21*. One lecture, one seminar, one tutorial, two laboratory hours a week.

German 31

The Romantic Movement. Studies in Romantic literature from Wackenroder to Heine, complementary to *German 30*. Prerequisite: Registration in *German 30* or permission of the department. Two lectures a week.

German 32

History of the German language; introduction to mediaeval German literature, Prerequisite: *German 20* or *21*, or permission of the department. One lecture, two tutorials a week.

HISPANIC STUDIES

Professor and Chairman of the Department

J. M. Valverde, LIC.FIL. Y LET., DR.FIL. Y LET.

Assistant Professor

J. P. González Martín, LIC.DER, DR.DER.

Assistant Professors

Enrique Gaston, LIC.DER., D.E.S., LIC.FIL. Y LET.; Mrs. Rosa Mariá Garrido de González, LIC.DER., M.A., DR.DER.; Mrs. Dawn L. Smith, M.A.

Spanish may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary programs.

There is no prerequisite to beginning the study of Spanish, but in view of the intensive language study which it requires, some previous study of French, Italian or Latin is strongly recommended.

All courses require regular language laboratory practice. The oral aspect of Spanish is stressed from the outset, and individual oral examinations are considered in determining final standing.

Undergraduates enrolled in *Spanish 10* must be prepared to work intensively to equip themselves for courses in the second year which are conducted at a level comparable to that of the French program. Students are not permitted to take both *Spanish 10* and *German 10*.

Spanish as a minor subject in the ordinary program: *Spanish 10* or *11*, *20* or *21*, one of *30*, *31*, *32*, *33*.

Spanish as a major subject in the ordinary program; *Spanish 10* or *11*, *20*, *21*, *33*, and one or two of *30*, *31*, *32*.

Spanish 10

Beginners' course in Spanish: This course consists of an introduction to grammar and reading, and practice in oral Spanish. Texts include a grammar and two readers presenting simplified stories and excerpts from works by contemporary authors. Three hours teaching will be given and two hours in the laboratory.

Spanish 11

Introductory course for undergraduates with Grade 13 standing, or equivalent, in Spanish: The course involves practice in composition and oral work and an introduction to the South American Civilization. Three hours of teaching a week will be given; one lecture a week, a tutorial and seminar in alternate weeks and one hour in the laboratory.

Spanish 20

Curso General de Civilización y Literatura Española: This course will be a general survey of the history and literature of the Hispanic peoples, together with the evolution and the concept of Hispanic cultures. The course is conducted in Spanish. One lecture, two seminars weekly.

Spanish 21

Conversación y Composición Española: A general course of Spanish conversation, composition and pronunciation, including tutorials and laboratory work. The course is conducted in Spanish. Three hours a week.

Spanish 30

Historia del Arte y del Pensamiento Español: The course provides lectures and seminars on the Arabic, Romanic, Gothic, Renaissance and Modern Art periods; a study of Spanish painting with emphasis on El Greco, Velázquez, Goya, Ribera, Zurbarán, Picasso, Dalí, Miró, Rivera and Orozco, as well as the historic thought of each epoch. Slides are used. The course is conducted in Spanish. One lecture, one seminar a week. (This course is not to be offered in 1969-70).

Spanish 31

Curso de Literatura Española: Renacimiento y Barroco. The course provides lectures and seminars on the Renaissance and Baroque periods with emphasis on Juan del Encina, Gil Vicente, Lope de Rueda, Garcilaso de la Vega, 'Lazarillo de Tormes,' Fray Luis de León, Sta. Teresa de Jesús, San Juan de la Cruz, Cervantes, Lope de Vega, Tirso de Molina, Gongora, Quevedo, Vélez de Guevara, Ruiz de Alarcón and Calderón de la Barca. The course is conducted in Spanish. One lecture, one seminar a week.

Spanish 32

Curso de Literatura Española: Neoclasicismo y siglo XIX. The course provides lectures and seminars on these periods with emphasis on Feijoo, Leandro F. Moratín, Cadalso, Duque de Rivas, Espronceda, Larra, Zorrilla, Bécquer, Pedro Antonio de Alarcón, Valera and Leopoldo Alas 'Clarín'. The course is conducted in Spanish. One lecture, one seminar a week.

Spanish 33

Historia de la Lengua Española: The course provides one lecture weekly on Castilian Historical Grammar and the following points of history of the language: traces of pre-latin voices; the '*latín vulgar*'; Germanic and Arabic influences; '*La Real Academia de la Lengua*' and the linguistic thought on 18th Century; introduction to Latin American semantics; introduction to *catalán*, *cheso*, *asturleonés*, *gallego* and *andalúz*; special study of 'anglicismos' in the living Spanish.

The course includes six tutorials on Castilian Paleography (to be arranged) and four seminars a month on reading and transcription of texts. The course will be conducted in Spanish.

HISTORY

Professor of History and Chairman of the Department

Alan Wilson, M.A., PH.D.

Professors

John Gilchrist, PH.D.; W. L. Morton, M.A., B.LITT., LL.D., D.LITT., F.R.S.C.

Associate Professors

F. A. Hagar, M.A., PH.D., M. LITT.; B. W. Hodgins, M.A., PH.D.; D. S. Macmillan, M.A., PH.D.; T. H. B. Symons, M.A.

Assistant Professors

C. M. Greene, A.M., PH.D.; Douglas McCalla, M.A.; R. J. D. Page, M.A.;
W. G. Pitman, M.A.; S. T. Robson, D.PHIL.

Lecturer

J. D. P. Martin, B.A., B.L.S.

History may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs. *History 10* is the normal prerequisite for all other courses in Canadian history.

History 10

Canadian History, an introduction: A study of the history of Canada to the present with an examination of major Canadian problems such as Canadian-American relations, the nature of regionalism in Canada, the position of French Canada; local and Ontario history; and more specialized topics. One lecture, one seminar or tutorial a week.

History 20

The expansion of Europe from 1400 to 1825: Selected topics concerning the background to European expansion, and the economic and political effects of this process in the world outside Europe. One lecture, one seminar or tutorial a week.

History 21

American History: Social, economic and political developments from the Colonial Period to the end of the Civil War. One lecture, one seminar or tutorial a week.

History 22

Modern European History: Selected topics, with emphasis on revolution, reform, and industrialism in the 19th and 20th Centuries. (Formerly History 23). One lecture, one seminar or tutorial a week.

History 30

Canadian History: Selected topics. In 1968-69 attention will be given to the development and problems of Canadian federalism. Seminars and tutorials, with occasional lectures.

History 31

American History: Social, economic and political developments since the Civil War. Two lectures and one seminar or tutorial fortnightly.

History 32

British History from 1815 to 1951: Selected topics concerning social, economic, and political developments. One lecture, one seminar or tutorial a week.

History 33

German History from 1848 to 1945: Selected problems concerning the political, social, and economic situation of the Germans. One lecture, one seminar or tutorial a week.

History 34

British Empire and Commonwealth: the British Empire from 1783 and its transformation into the present Commonwealth. (Formerly *History 22*). One lecture, one seminar or tutorial a week. (Not offered in 1968-69.)

History 35

Modern European History: Revolutionary France from the early 18th Century to the Dreyfus Affair. One lecture, one seminar or tutorial a week.

History 36

Mediaeval Europe: A course of mediaeval studies with particular reference to the period 1048-1348. Selected topics concerning social, economic, cultural, and ecclesiastical developments. One lecture or seminar, one tutorial a week.

History 37

Russian History: A study of the development of the Muscovite State and of the Tsarist Autocracy, with some attention to the development of the reform and revolutionary movements. One lecture, one seminar or tutorial a week. (Open primarily to Fourth-Year students during the academic year 1968-69, but to some Third-Year students with the permission of the department.)

History 38

British History from the 16th to the 18th Century; selected topics. (Formerly *History 42*.) *Open only to Fourth-Year students in 1968-69.* One lecture, one seminar or tutorial a week.

History 40-Politics 40

Contemporary Canadian problems: An intensive study of the problems of constitutional change, parliamentary reform, and social and cultural

aspects of the French-English relationship in Canada. (Offered jointly by the academic staff in History and Politics.) Prerequisite: *History 30*, or permission of the department. One tutorial a week.

History 41

American History: Selected topics. (Not offered in 1968-69).

History 47

Historiography: Studies in the historical method of some of the great historians from the Ancient World to the present. (Formerly *History 39*.) *Limited enrolment and only by permission of the department.* Lectures and discussion groups.

History 48

Reading Course: Special topics, designed to provide an opportunity for more intensive study of particular topics. Open only to Fourth-Year Honours undergraduates in History by permission of the department. Regular consultation and direction during the academic year.

History 49

Undergraduate Thesis: Designed to provide an opportunity for more intensive study of particular topics and special training in research methods. Equivalent to two courses, and open only to Fourth-Year Honours undergraduates in History by permission of the department.

MATHEMATICS

Professor of Mathematics and Chairman of the Department

A. P. Guinand, D.PHIL.

Professor

T. E. W. Nind, M.A.

Assistant Professors

I. C. Chakravartty, M.SC., PH.D.; G. F. Hamilton, B.A.SC., M.A., P.ENG.; J. P. Henniger, M.SC. PH.D.; T. N. Murphy, B.SC.

Mathematics may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs. *Mathematics 10* or *11*, and *20* and *30* must be included among the major courses. *Mathematics 10* and *Mathematics 11* are alternative first year courses. *Mathematics*

10 is planned for students with no previous knowledge of elementary calculus, and *Mathematics 11* is for students who have some such knowledge. Normal prerequisites for either *Mathematics 10* or *11* are algebra, geometry and trigonometry for students who wrote Grade 13 before 1967, and Mathematics A and B, or equivalent for students writing Grade 13 in 1967 or later. Students may not take both *Mathematics 10* and *11*.

Mathematics 10

General Mathematics: Introduction to differential and integral calculus, with applications to rates of change, maxima and minima, areas, and volumes. Separable differential equations. Topics from limits, series, and plane co-ordinate geometry. Two lectures a week, tutorial fortnightly.

Mathematics 11

General Mathematics: Applications of problems differentiation to curvature, involutes and evolutes, Leibniz' theorem, and power series of elementary functions. Methods of integration. Numerical integration. Co-ordinate geometry of conics and other plane curves. Selected topics from algebra and set theory. Two lectures a week, tutorial fortnightly.

Mathematics 20

General Mathematics: This course is a continuation of *Mathematics 10* or *11*, and includes partial differentiation, multiple integrals, differential equations, elementary properties of complex variables, a formal treatment of fourier series, determinants, and the co-ordinate geometry of lines, planes and spheres in three dimensions. Prerequisite: *Mathematics 10* or *11*. Two lectures a week, tutorial fortnightly.

Mathematics 21

Applied Mathematics: Elementary statics and dynamics of particles and rigid bodies. Hydrostatics. Prerequisite: *Mathematics 10* or *11*. Two lectures a week, tutorial fortnightly.

Mathematics 23

Introduction to concepts of modern algebra: Sets, algebraic systems. Prerequisite: *Mathematics 10* or *11*.

Mathematics 30

Theory of functions: This course is a continuation of *Mathematics 20*, and includes a more rigorous treatment of the foundations of analysis,

conditions for the convergence of Fourier series, Fourier integrals, functions of a complex variable. Cauchy's theorem, residues, and the Gamma function. Two lectures a week, tutorial fortnightly.

Mathematics 31

Applied Mathematics. General theories of classical mechanics. Lagrange's and Hamilton's equations. Variational principles. Some attention to foundations of quantum mechanics and special relativity. Prerequisites: *Mathematics 20* and *21*. Two lectures or seminars a week.

Mathematics 32 and 33

Classes will be held on the topics listed below. Any two of these classes may be combined to constitute one course in Mathematics for a degree program.

- a) Differential equations. Prerequisite: *Mathematics 20*.
- b) Linear algebra, matrices. Prerequisite: Permission of the department.
- c) Topology of point sets. Prerequisite: Permission of the department.
- d) Analytic and projective geometry. Prerequisite: *Mathematics 20*.
- e) Number theory. Prerequisite: *Mathematics 20*.
- f) Probability theory. Prerequisite: *Mathematics 20*.
- g) Special functions of analysis. Gamma, Bessel, Legendre, elliptic, and hypergeometric functions, with some applications. Co-requisite: *Mathematics 30*. One seminar a week in each part.

Mathematics 40

Advanced analysis for honours students. Prerequisite: *Mathematics 30*. One seminar a week.

Further programs of Fourth-Year honours Mathematics courses, tailored to the requirements of single and joint-major honours students, will be worked out by discussion between the candidate and the Chairman of the department.

Statistics 20

Elementary Statistics. The course is an introduction to elementary statistics which does not assume a knowledge of calculus. Applications in various fields will be dealt with in separate sections. Weekly lectures offered by the Mathematics Department, weekly seminars and laboratory sessions conducted by co-operating disciplines including Biology, Economics, Mathematics, Psychology and Sociology.

PHILOSOPHY

Professor of Philosophy and Chairman of the Department

W. H. Dray, M.A., D.PHIL., F.R.S.C.

Associate Professor of Philosophy

J. I. MacAdam, M.A., PH.D.

Assistant Professors

Miss M. F. Fry, M.A., B.LITT.; W. A. McMullen, M.A.

Lecturer

K. Rautenkranz, A.M.

Philosophy may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs. *All philosophy courses include lectures and tutorials.*

Philosophy 10 is the normal prerequisite for all other courses in Philosophy. With the approval of his supervisor of studies, and subject to the agreement of the department, an undergraduate may, after his first year, register for any course in Philosophy.

Candidates for the honours degree who are studying Philosophy as a major subject devote their fourth academic year to work in Philosophy which is both intensive and comprehensive, involving the writing of a research paper. The individual program of fourth-year studies of a student in honours Philosophy is to be arranged by the student in consultation with the Chairman of the department not later than the end of January of his third year.

Philosophy 10

An introduction to philosophical enquiry through the study of classical problems in their historical and textual setting; with an introduction to traditional formal logic.

Philosophy 20

Problems of Philosophy: A study of selected philosophical problems with special emphasis on fundamental questions of moral philosophy and the philosophy of religion.

Philosophy 21

Ancient Philosophy I: Thales to Plato. (Offered in 1969-70.)

Philosophy 22

Modern Philosophy I: Descartes to Kant. (Offered in 1968-69.)

Philosophy 23–Politics 20

An introduction to political philosophy. A study of some major writings, including selections from Plato, Aristotle, Machiavelli, Hobbes and Rousseau; and analysis of such concepts as liberty, equality and justice. Offered jointly by the academic staffs in Politics and Philosophy. Prerequisite: *Politics 10*, or *Philosophy 10*, or permission of the departments.

Philosophy 24

An introduction to the study of logic, including an examination of selected formal systems, the nature of truth and fundamental logical concepts.

Philosophy 30

Problems of Philosophy: A seminar class in selected ethical problems dealt with by principal philosophers.

Philosophy 31

Ancient Philosophy II: Aristotle to Plotinus. (Offered in 1968-69.)

Philosophy 32

Modern Philosophy II: Hegel to the present. (Offered in 1969-70.)

Philosophy 33–Politics 30

Political Philosophy: collectivist theory: A study of kinds of theories, and their development from the French Revolution onwards, which place emphasis on the value of society. Selections from the writings of Saint-Simon, Fourier, Proudhon, Hegel, Marx and Engels, Sorel and Green will be examined. Offered jointly by the academic staffs in Politics and Philosophy. Prerequisite: *Politics 20*, *Philosophy 23*, or permission of either department. (Offered in 1969-70.)

Philosophy 34

Research tutorial. Intended to encourage and develop special philosophical interests, research tutorials are available on the recommendation of the undergraduate's supervisor of studies in consultation with the academic staff in Philosophy. Application for entry is to be submitted to the Chairman not later than the end of January of the preceding academic year.

Philosophy 35–Politics 31

Political philosophy: liberal democratic theory. Intensive study of the major works of some of the following authors: Hobbes, Locke, Rousseau, Bentham, Mill, Sidgwick and Hart. Attention will also be given to the special problems of this type of theory. Offered jointly by the academic staffs in Philosophy and Politics. Prerequisite: *Politics 20*, *Philosophy 23*, or permission of either department. (Offered in 1968-9.)

Philosophy 40

A staff-student seminar which deals with selected problems in philosophy of action.

Philosophy 41

An intensive study of the major work of a major philosopher.

Philosophy 44

Research Tutorial.

PHYSICS

Professor of Physics and Chairman of the Department

J. I. Lodge, M.A., PH.D.

Assistant Professors

J. W. Earnshaw, B.A.SC., PH.D.; B. C. Gregory, B.A.SC., PH.D.; R. G. Johnson, M.SC.; W. R. Tyson, B.A.SC., PH.D.

Senior Demonstrator

Mrs. H. G. Morrison, M.A.

Physics may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

Physics 10 and *Mathematics 10* or *11* are prerequisites for all other courses in Physics. Class meetings in second-, third- and fourth-year courses are divided among lectures, seminars, and tutorials by the instructor with the number of each being dependent upon the nature of the topic being discussed. Ontario Grade 13 credits, or equivalent, in Mathematics A and B and Physics, or permission of the Chairman of the department or his representative, are normal prerequisites for *Physics 10*.

Undergraduates choosing Physics as a major subject must elect *Chemistry 10* in the first year of their studies and will ordinarily elect the following courses:

a) Physics as a major subject in the ordinary program: *Physics 10*, two second-year courses selected from *Physics 20, 21, 22*, two third-year courses of which one must be *Physics 31*, with *Mathematics 20* as a prerequisite.

b) Physics as a single-major honours program: *Physics 10, 20, 21, 30, 31, 32, 34, 40, 41, 42, 43*, supported by *Mathematics 10 or 11, 20, 21, 31*. Beginning with the academic year 1969-70, *Physics 44* will be an additional requirement. Undergraduates in the fourth year must participate in two laboratory periods per week of fourth-year Physics.

c) Physics in a joint-major honours program with a related subject: *Physics 10, 20 or 21, 31, 34, 40*, and two additional courses approved by the Department, supported by *Mathematics 10 or 11, 20, 21, 31*.

d) Undergraduates electing no more than two courses in Physics as minor subjects should in general choose *Physics 10* and *Physics 20*.

Requests to substitute alternative courses for those regularly prescribed will be considered in relation to the overall programs of the undergraduates making the requests.

It is to be noted that students in the third year of the honours program in Physics must elect *Mathematics 31* and *Physics 34*. In 1968-69, students in the fourth year of the honours program in Physics must elect *Physics 34*. In subsequent years, *Physics 34* will be a prerequisite for all fourth year honours courses in Physics.

Physics 10

Elementary Physics: Particle dynamics, translational and rotational motion, wave motion, electricity, physical optics, quantum physics (wave nature of matter). Prerequisites: Ontario Grade 13 credits, or equivalent, in Mathematics A and B and Physics, or permission of the department. Two lectures and one three-hour laboratory period a week, one tutorial bi-weekly.

Physics 20

Thermodynamics and Introductory Modern Physics: Thermodynamic systems, the laws of thermodynamics, entropy, kinetic theory. Special relativity, quantum phenomena, atomic structure, radioactivity and nuclei. Prerequisites: *Mathematics 10, Physics 10*. Two class meetings and one laboratory a week.

Physics 21

Electricity and Magnetism: Circuit theory, electrostatics, magnetostatics, electric and magnetic properties of matter, Maxwell's equations. Basic electronics. Prerequisites: *Mathematics 10, Physics 10*. Two class meetings and one laboratory a week.

Physics 22–Mathematics 21

Mechanics: Offered by the staff in Mathematics as *Mathematics 21*. Prerequisites: See *Mathematics 21*. No laboratory.

Physics 30

Optics: Propagation, reflection, refraction, interference, diffraction, polarization, optical instruments. Prerequisites: *Physics 21, Mathematics 20*. Two class meetings and one laboratory a week.

Physics 31

Modern Physics: Special relativity, introductory quantum mechanics, atomic structure, nuclear physics, cosmic rays and the elementary particles. Prerequisites: *Mathematics 20, Physics 20 or 21*. Two class meetings and one laboratory a week.

Physics 32

Electronics: Electrodynamics, elementary solid state, solid state and vacuum diodes, vacuum and gas tubes, transistors and other solid state devices, microwaves and microwave electronic devices. Laboratory: Electronics and microwaves. Prerequisites; *Physics 21, Mathematics 20*. Two class meetings and one laboratory a week.

Physics 34

Fundamentals of Mathematical Physics: Vector, matrix, and tensor algebra, vector calculus, functions of a complex variable, integral transforms, linear differential equations, partial differential equations. Prerequisites: *Physics 21 or Physics 22, Mathematics 20*. (Formerly *Physics 44*). Two class meetings a week, no laboratory.

Physics 40

Quantum Mechanics: The principle of superposition, dynamical variables and observables, representation theory, Schrodinger and Heisenberg pictures, angular momentum, perturbation theory, scattering, theory of radiation, relativistic theory of the electron. Prerequisites: *Physics 31*,

Mathematics 31. Co-requisite: *Physics 34* (1968-69 only). Two or three class meetings a week, no laboratory.

Physics 41

Electromagnetic theory: Advanced treatment of Maxwell's equations, microwave circuits and devices, radiation, propagation in dielectrics and conductors, noise, elementary plasma physics, special relativity applied to electrodynamics. Laboratory: experiments in microwaves and gas physics. Prerequisites: *Physics 21*, *Physics 32* recommended, *Mathematics 31*. Co-requisite: *Physics 34* (1968-69 only). Two class meetings a week, two three-hour laboratory periods a week shared with *Physics 41* and *Physics 42*.

Physics 42

Statistical Mechanics and Solid State Physics: Classical and quantum statistical mechanics, elementary crystallography, theory of electrical and thermal properties of metals, imperfections in solids, semiconductors. Co-requisite: *Physics 40*. Two class meetings a week, two three-hour laboratory periods a week, shared with *Physics 41* and *Physics 42*.

Physics 43

Nuclear and Particle Physics: Nuclear properties, models of the nucleus, detection of nuclear radiations, radioactivity, nuclear reactions, discovery of elementary particles, invariance principles and quantum numbers, resonant states, strong and weak interactions. Co-requisites: *Physics 34* (1968-69 only), *Physics 40*. Two or three class meetings a week, two three-hour laboratory periods a week, shared with *Physics 41* and *Physics 42*.

Physics 44

Theoretical Physics: Mathematical methods in physics, field theory, topics of current interest. Prerequisite: *Mathematics 31*, *Physics 34*. Co-requisite: *Physics 40*. Two class meetings a week, no laboratory. (Not offered 1968-69.)

POLITICS

Professor of Politics and Chairman of the Department.

S. G. D. Smith, M.A., B.LITT.

Assistant Professors

P. Bandyopadhyay, M.A.; D. Morrison, M.A.; W. F. W. Neville, B.A.; J. Wearing, M.A., D.PHIL.

Lecturer

J. O. Stubbs, B.A., M.SC.

Politics may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

In the ordinary program, undergraduates who major in Politics must include *Politics 10, 20 and 30* among their five or six major courses.

Undergraduates seeking an honours degree in Politics must include *Politics 10, 20 and 30* among their six courses in Politics during the first three years. In the fourth year the honours program involves further specialized courses, a research paper and a comprehensive examination.

Politics 10

An introduction to the study of politics: Designed to acquaint undergraduates with the general framework of political institutions and thought. Emphasis is given to Canadian government and politics and to selected major political concepts. One lecture a week; tutorials fortnightly; occasional seminars.

Politics 20–Philosophy 23

An introduction to political philosophy: A study of some major writings, including selections from Plato, Aristotle, Machiavelli, Hobbes and Rousseau; and analysis of such concepts as liberty, equality and justice. (Offered jointly by the academic staffs in Politics and Philosophy.) Prerequisite: *Politics 10*, or *Philosophy 10*, or permission of the departments. One lecture and one tutorial fortnightly.

Politics 21

American government: A study of the constitution and the political institutions of the United States: the Presidency, Congress, the judiciary, and political parties. The course will include an examination of current political questions and recent political research. Prerequisite: *Politics 10* or permission of the department. Regular tutorials and occasional lectures.

Politics 22

International politics: A study of diplomacy and international organization since the First World War, with emphasis upon the inter-war search for security and disarmament, the League of Nations, the United Nations and its agencies, and the foreign policies of the major powers. Prerequisite: *Politics 10* or permission of the department. One lecture a week; tutorials and seminars in alternate weeks.

Politics 30–Philosophy 33

Political philosophy: collectivist theory: A study of kinds of theories, and their development from the French Revolution onwards, which place emphasis on the value of society. Selections from the writings of Saint-Simon, Fourier, Proudhon, Hegel, Marx and Engels, Sorel and Green will be examined. (Offered jointly by the academic staffs in Politics and Philosophy.) Prerequisite: *Politics 20*, or any two Philosophy courses, or permission of either department. (Offered in 1969–70.) One lecture a week; tutorials fortnightly.

Politics 31–Philosophy 35

Political philosophy: liberal democratic theory. Intensive study of the major works of some of the following authors: Hobbes, Locke, Rousseau, Bentham, Mill, Sidgwick and Hart. Attention will also be given to the special problems of this type of theory. (Offered jointly by the academic staffs in Politics and Philosophy.) Prerequisite: *Politics 20* or permission of either department. (Offered in 1968–69.) One lecture a week; tutorials fortnightly.

Politics 32–Economics 32

Canadian public finance: A study with special reference to Canada of the roles of political structures in the economy; the theory and practice of fiscal and monetary policy-making; and the financial relationships among federal, provincial, and municipal governments. (An integrated course offered by the academic staffs in Economics and Politics.) Prerequisites: *Politics 10* or permission of the department and *Economics 10*. Fortnightly tutorials; occasional lectures.

Politics 33

Comparative government: A study of the government and politics of Britain and France. Prerequisite: *Politics 10* or permission of the department. One lecture a week; tutorials and seminars in alternate weeks.

Politics 34–History 30

Canadian federalism: An examination of the development and problems of Canadian federalism. (Offered jointly by the academic staffs in Politics and History.) Prerequisite: *Politics 10*, or *History 10*, or permission of the department. Weekly seminars, fortnightly tutorials, and occasional lectures.

Politics 35

The politics of developing areas: A study of political behaviour and structures in the new states of Africa and Asia with particular reference to the problems of modernization and political development; the relationship between politics and socio-economic change; and the roles of ideologies, political parties, civil and military bureaucracies; and voluntary associations in nation-building processes. Prerequisite: *Politics 10* or permission of the department. Weekly tutorials; occasional lectures.

Politics 36

Special topics in political thought: A reading course, open only to undergraduates majoring in Politics, designed to provide an opportunity for more intensive study of a certain period or authors studied concurrently in *Politics 30* or *31*. Prerequisite: *Politics 20*. Periodic tutorials.

Politics 40–History 40

Contemporary Canadian problems: An intensive study of the problems of constitutional change, parliamentary reform, and social and cultural aspects of the French-English relationship in Canada. (Offered jointly by the academic staffs in Politics and History.) Prerequisite: *Politics 34* or permission of the department. Weekly tutorials.

Politics 41

Advanced comparative politics: An analysis of recent theoretical and methodological approaches to the discipline of comparative politics in relation to empirical studies of selected political systems. Prerequisite: *Politics 33* or permission of the department. Fortnightly tutorials.

Politics 42

Special topics in politics. A reading course for fourth-year honours students, available in 1968–1969 in any of the following areas of study:

- Comparative parliamentary institutions;
- Comparative federalism;
- Voting behaviour and political sociology;
- Recent trends in the study of politics;
- Political parties in democratic and totalitarian countries.

Politics 43

Honours thesis.

PSYCHOLOGY

Professor of Psychology and Chairman of the Department

J. M. Blackburn, B.SC., PH.D.

Professor

J. P. S. Robertson, M.A., PH.D.

Associate Professor

A. G. Worthington, B. COM., PH.D.

Assistant Professors

B. L. Beach, M.A., PH.D.; Richard B. Morris, B.A., M.SC., PH.D.; H. J. Stanford, M.A., PH.D.; Peter Watson, M.A., PH.D.

Lecturer

Miss Jane Hamacher, M.A.

Instructor

Mrs. Lorna A. Gendreau, M.A.

Psychology may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary program, or as a single major subject in the honours program. *Psychology 10* is normally a prerequisite for other courses in Psychology. *Psychology 21* is a prerequisite for *Psychology 30*. Students choosing *Psychology 20, 21, 22, 30, 35* or *42* are strongly recommended to include *Statistics 20* in their programs.

The recommended courses for undergraduates studying Psychology are as follows:

Psychology as a single or joint major in the ordinary program: *Psychology 10*; two or three of *21, 22, 23, 24*; two or three of *30, 31, 33, 35, 36, 37, 41, 42*

Psychology as a single major in the honours program: *Psychology 10*; *21*, at least one of *22, 23, 24; 30, 33, 35; 40, 41, 42*, at least one of *31, 36, 37*.

Note that in the honours program the following courses must be included: *Psychology 10, 21, 30, 33, 35, 40, 41, 42*.

Other subjects which combine well with Psychology are Biology, Anthropology, Sociology or Mathematics. The first three overlap in content, the fourth in methodology.

Psychology 10

Introduction to General Psychology: A survey of the field of psychology with emphasis on the experimental approach to the study of behaviour. Two hours lectures a week, one fortnightly tutorial.

Psychology 21

Introductory Statistics and Experimental Psychology: An introduction to the problems and methods of experimental psychology. Prerequisite: *Psychology 10*. Two lectures, two hours laboratory a week. Enrolment may be limited.

Psychology 22

Child Psychology: A discussion of the research literature pertaining to child behaviour, with primary emphasis on research methods, learning, motivation, cognitive processes, and theories of child development. Prerequisite: *Psychology 10*. One tutorial a week. Enrolment may be limited.

Psychology 23

Applied Psychology: The application of psychological methods to problems of industry and education. Among the topics to be discussed in industrial psychology will be job and worker analysis, methods of selection, industrial training, conditions and efficiency in work, accidents and labour turnover, and worker motivation and morale. In educational psychology the following topics will be among those discussed: problems of learning, maturation and "readiness", late and early developers, individual differences in the classroom, problems concerning the transfer of learning, communication effectiveness, examinations, tests and other ways of judging performance. (Formerly *Psychology 32*.) Prerequisite: *Psychology 10*. One lecture a week, one seminar or tutorial a week.

Psychology 24

Social Psychology: A discussion of recent developments in the objective study of attitude measurement, attitude change, person perception, prejudice, language and communication, risk taking, small group interactions, sociometry, role theory, leadership, delinquency and mass movements. (Formerly *Psychology 34*.) Prerequisite: *Psychology 10*. One lecture; one seminar a week or one tutorial fortnightly.

Psychology 30

Advanced experimental psychology and statistics: An intensive study of experimental methods and advanced statistical techniques in selected areas of psychology. The course will consist of seminars and experimental projects. Prerequisite: *Psychology 21*. One lecture a week; one seminar or tutorial a week; two hours laboratory a week.

Psychology 31

Personality and abnormal psychology: The personality theories of Freud, Jung, Adler, Horney, Sullivan, Lewin, Sheldon, Eysenck, Dollard and Miller, Murray, Allport, and others. Classification and dynamics of abnormal behaviour, (formerly *Psychology 22*). Prerequisite: *Psychology 10*. One lecture; one seminar or tutorial a week.

Psychology 33

Sensation and perception: The perceptual processes underlying an individual's apprehension of his environment; the organization and interaction of patterns of stimulation, and the ways in which expectancies, memories, frames of reference and other cognitive functions enter into the structuring of the percept. Topics include colour, form and space perception; pictorial perception; attention and perceptual curiosity; the effects of learning and motivation. Prerequisite: *Psychology 10*. One lecture a week; one seminar or tutorial a week.

Psychology 35

Learning and motivation: A survey of major experiments and theories in animal and human learning and motivation, (formerly *Psychology 20*). Prerequisite: *Psychology 10*. One lecture a week; one tutorial a week; two hours laboratory a week. Enrolment may be limited.

Psychology 36

Cognitive Processes: An analysis of the development of cognitive processes and the adequacy of competing theories to deal with the available data. Methods used in the study of cognition. The relationship of cognition to learning, perception, and motivation. Major areas of contemporary research with particular emphasis on problem solving and concept formation. Prerequisite: *Psychology 10*. One lecture a week; one seminar or tutorial a week.

Psychology 37

Psychometrics: An analysis of selected tests of intelligence and personality. Questions of reliability and validity. Techniques of mental measurement and their limitations. Prerequisite: *Psychology 10*. One lecture a week; one seminar or tutorial a week.

Psychology 40

Research tutorial: A research project of the student's choice supervised by a member or members of the Psychology Department. Periodic seminars dealing with current projects will be held. Restricted to Psychology honours students.

Psychology 41

History and systems of Psychology: A reading course in which students will be required to prepare major papers on problems concerned with the history of psychology and the emergence and development of new topics and systems. Periodic seminars will be held. This course is primarily intended for honours students.

Psychology 42

Physiological and comparative psychology: A survey of neural and endocrine mechanisms followed by a detailed consideration of selected problems in the psychology of behaviour, particularly motivation, sensory processing and learning. The emphasis will be on experimental data from mammals. One lecture, one tutorial, three hours laboratory a week.

SOCIOLOGY

Professor of Sociology and Chairman of the Department

J. C. McDonald, M.SOC.SC., PH.D.

Professor

B. R. Blishen, M.A.

Associate Professor

N. Bitar, M.A.

Assistant Professors

P. Bandyopadhyay, M.A.; Mrs. Dorothy M. Hepworth, M.A.

Lecturer

P. Weinsweig, M.A.

Sociology may be studied as a minor subject, or as a single-major or joint-major subject in the ordinary and honours programs.

Sociology 10, 20, and 30 must be included among the five or six Sociology courses required to complete the ordinary program with a single-major or a joint-major in Sociology.

Sociology 10, 20, 30, 32, and 43 must be included among the nine Sociology courses required to complete the honours program with a single-major in Sociology.

Students planning to enter the honours program in Sociology are strongly urged to take *Sociology 24 (Statistics 20)* as one of the nine required Sociology courses, especially students who are planning to continue with post-graduate work in Sociology.

Students following the honours program in Sociology are advised to include a combination of courses from related disciplines: Anthropology, Economics, History, Politics, and Psychology.

Any student wishing to elect a joint-major honours program involving Sociology must obtain the permission of the department.

Sociology 10

Introduction to Sociology: An introduction to the basic principles of sociological study. An examination of the elements of social structure and social behaviour—social relations, social groups, cultural norms, and values—against the background of both simple and complex societies.

Sociology 20

Social stratification: Theory and research on the forms and functions of social inequality in comparative and historical perspective. The nature of the relationship between social, political and economic power. Discussion of the criteria of social class, correlates of class position, and social mobility. Prerequisite: *Sociology 10*.

Sociology 21

Industry and society: An examination of the organization of work in complex and simple societies through an analysis of the division of labour, formal and informal work structure and behaviour, labour-management relations, and occupational and professional roles. Prerequisite: *Sociology 10*.

Sociology 22

Family and kinship: An analysis of the structure and functions of family and kinship, including the family as an agency of primary socialization. An examination of childhood, adolescence, courtship, marriage, parenthood and old age. A discussion of trends and problems affecting the contemporary family. Prerequisite: *Sociology 10*.

Sociology 23

See *Anthropology 20*

Sociology 24 (Statistics 20)

Social statistics.

Sociology 30

Sociological theory: The history of Sociological theory, with special reference to the contributions of Marx, Durkheim, Pareto, Weber, and Parsons. The development of a set of basic criteria with which to assess classical and contemporary sociological theories.

Sociology 31

Political sociology: The study of the social determinants of political behaviour and political power, including voting behaviour, political parties, political elites, and pressure groups.

Sociology 32

Social research: Seminars and exercises dealing with the methods and techniques of sociological research. During this course, the student will apply these techniques to a specific research project.

Sociology 33

See *Psychology 24*

Sociology 40

Sociology of education: An examination of the structure and functions of education and their relationship to those of other social institutions, with particular reference to socialization and social control, ability and opportunity, social mobility, social and cultural factors in achievement and the teaching profession.

Sociology 41

Canadian society: The institutional framework of Canadian society compared with other modern urban, industrial societies. (Formerly *Sociology 31*).

Sociology 42

Social change: Classical and modern theories of social change. An examination of the sources and consequences of large-scale social change with particular reference to industrialization and modernization.

Sociology 43

Honours seminar: A reading course and discussion seminar to supervise the work of honours students in selected areas of sociological analysis.

Pre-Professional Studies

The University believes that there is considerable merit in studying at one university before proceeding to professional study at another. The curriculum has therefore been planned to offer attractive courses which meet the academic requirements of Ontario's professional faculties for students proposing to proceed to another university for professional studies.

The academic requirements for admission to some professional faculties are summarized below:

DENTISTRY

The University of Western Ontario and the University of Toronto offer instruction in Dentistry in Ontario. The admission requirements for this course are successful completion of either a first year Science program or a degree in Science or Arts. Possession of these requirements renders a candidate eligible for selection; it does not guarantee admission. Prospective students of Dentistry are advised to consult very carefully the calendar of the Faculty of Dentistry of the universities in which they are interested.

LAW

For admission to the study of Law, at least two years of university study beyond the Grade 13 level are required.

MEDICINE

The Faculties of Medicine at McMaster, Ottawa, Queen's, Toronto and Western Ontario Universities, require all candidates for admission to have completed either two-year pre-medical courses which they offer, or three years of study, with courses appropriate for prospective medical students, at another recognized university. So that students may take full advantage of the science courses at Trent University which will prepare them for the professional study of Medicine, they are advised to complete the secondary school program in Mathematics A and B, Physics and Chemistry.

All Canadian Faculties of Medicine have many more applicants than they can admit, and possession of the entrance requirements does not

guarantee admission. Prospective medical students are advised to consult very carefully the calendar of any Faculty of Medicine in which they are interested.

CHARTERED ACCOUNTANCY

The Institute of Chartered Accountants of Ontario has placed Trent University on the list of designated universities whose graduates are eligible for entry into the Institute's course of studies. Graduates of the University are, therefore, eligible for the three-year course offered by the Institute.

ONTARIO COLLEGES OF EDUCATION

Interim High School Assistants' Certificate, Type B:

Graduates of the ordinary program of Trent University meet the requirements for admission to the professional course leading to the Interim High School Assistants' Certificate, Type B. Endorsation of Certificate, Type B, is given to candidates offering five university courses with an overall average of second class standing, in a subject taught in Ontario schools. Students intending to qualify for admission to the course leading to the Interim High School Assistants' Certificate, Type B, must include in their programs at least seven courses in at least three high school subjects.

Interim High School Assistants' Certificate, Type A:

For admission to the course leading to Type A certificates in the Ontario Colleges of Education, four years of university study beyond the Grade 13 level are required. Graduates of the ordinary program however may become eligible for admission to the course leading to Type A certificates in a number of ways.

Further information for prospective teachers is available from the Registrars of the Colleges of Education.

Miscellaneous Information

BOOKSTORE

Arrangements have been made to ensure that prescribed textbooks and other course material are readily available to undergraduates.

UNIVERSITY HEALTH SERVICE

The University has established a health service for undergraduates to provide a consultation and advisory service, as well as emergency treatment for medical illnesses and injuries.

All students are required to carry some form of medical and hospitalization insurance, and should bring proof of protection with them to registration. Those who are not adequately covered will be required to register with the Zurich Plan, which costs approximately \$20 for a twelve-month coverage.

UNDERGRADUATE ACTIVITIES

The undergraduates of the University have fostered and developed a rich and varied program of social and cultural activities. Participation is encouraged in numerous student organizations and activities; the first four years of the University have seen the establishment and lively growth of a student newspaper, literary magazine and yearbook, and of dramatic, music, debating, and film societies. Among the facilities that the City of Peterborough offers to members of the University are a fine public library, a newly formed symphony orchestra which holds great promise for the future, a varied and excellent theatrical program, and regular visits by musical and theatrical companies.

The University has developed a wide and diversified athletic and recreation program that makes use of the facilities available in the city and the surrounding area, as well as those of a full size flood-lit playing field, a quarter mile running track, five tennis courts, a squash court, sail boats, canoes, and rowing fours, the University is able to provide many of the facilities necessary for a well balanced athletic program. Arrangements are made with the city for the extensive use of gymnasias, rinks, and swim-

ming pools. The program is organized to meet the varying interests of students, with competition available at the inter-university, inter-college and intramural levels. At the inter-university and inter-college levels competition is undertaken in basketball, cross-country running, curling, rugger, fencing, golf, hockey, sailing, skiing, soccer, squash, tennis, track and field, touch football and judo. The University Outing Club, which organizes regular expeditions into the Kawartha hinterland, helps to round out this vigorous and growing athletic and recreational program.

RELIGION

Trent University is a multi-denominational university. Undergraduates are encouraged to take part in the religious life of the City of Peterborough and to organize religious societies and activities at the University.

CONDUCT AND DRESS

Undergraduates are expected to conduct themselves at all times in a manner appropriate to members of a university.

Undergraduates wear the University gown on formal academic occasions, including lectures, seminars, tutorials, examinations, formal visits to members of the faculty, and various college functions. University gowns may be purchased from the University Porter or rented from him for a nominal fee each year.

Fees

ACADEMIC FEES

The total fee for full-time undergraduates for the academic year is \$550. This figure includes registration and tuition fees, and incidental fees of \$50 for health services, athletics and student government.

Fees are due and payable on the day of registration; they may, however, be paid in two instalments, in which case the total is increased by \$5. Instalments are payable on or before the day of registration (\$280) and on or before January 31 (\$275). Cheques should be made payable to Trent University and mailed to, or paid at, the Office of the Comptroller. A charge of \$3 per month will be imposed on overdue accounts. In the case of first year students, the \$50 deposit will be applied against the first instalment.

Undergraduates applying for registration after the prescribed dates may be charged a late registration fee of \$10.

The fee for full-time graduate students is \$400. Tuition fees for part-time students are \$125 for the first course and \$100 for each subsequent course. These fees include an incidental fee of \$25.

RESIDENCE FEES

The fee for room and board for the academic year excluding the Christmas and winter vacation and reading periods is \$815.

Residence fees are due and payable on the day of registration; they may, however, be paid in two instalments with an additional charge of \$5 as indicated below:

\$450 on or before the day of registration

\$370 on or before January 31, 1969

A charge of \$3 per month will be imposed on overdue accounts.

NON-RESIDENT'S FEE

Non-residents are encouraged to enter fully into the life of their colleges, and accordingly make considerable use of College facilities. A non-resident fee of \$65, including \$25 to be applied against meals taken in College, is payable by all full-time non-resident students in addition to the academic fee. This fee is payable at the same time as academic fees; if paid in instalments, the two instalments are \$35 and \$30.

Certain further fees may be charged in appropriate circumstances.

Refunds of any fees payable are made only in special cases and on the written authorization of a student's College Head. Any refunds granted will be subject to a refund charge. Incidental fees are not refundable.

Students may be debarred from writing final examinations of each year if any outstanding University accounts remain unpaid at the conclusion of the week preceding the writing of final examinations.

All fees are subject to change.





Distinctive architecture set along the banks of the Otonabee River characterizes Trent University. Opposite is the architect's model of the Nassau Campus. Pictured below it is the Great Hall in Champlain College. Catharine Parr Traill College (upper), and Champlain College (below), are pictured on this page.



Trent University in Peterborough

- NASSAU CAMPUS
 Champlain College
 Lady Eaton College (1968)
 Staging Building—
 Biology and Psychology
 Chemistry Building (1968)
 Library (1969)
- RUBIDGE HALL
- CATHARINE PARR TRAILL COLLEGE
- △ PETER ROBINSON COLLEGE

Lady Eaton





