



UNIVERSITY OF VICTORIA

Calendar

1974-75

DIRECTORY OF CORRESPONDENCE

Letters of inquiry concerning the University in general should be addressed to the Registrar, University of Victoria, Box 1700, Victoria, British Columbia.

Letters of inquiry in regard to the following specific matters should be addressed to the officer shown.

ADMISSIONS

Faculty of Graduate Studies:
Dean, Faculty of Graduate Studies
All other Faculties and Schools:
Director of Admissions

ADVISING

Arts and Science: Director of Academic Advising, Faculty of Arts and Science
Education: Director, Advising Centre, Faculty of Education
Fine Arts: Office of the Dean

AWARDS AND FINANCIAL AID

Financial Aid Officer

BOOKSTORE

Manager, Bookstore

CONTINUING EDUCATION

Director, Division of Continuing Education

COUNSELLING

Director, Counselling Centre

HEALTH SERVICES

Director, Student Health Services

HOUSING AND CONFERENCE SERVICES

Manager, Housing and Conference Services

STUDENT UNION BUILDING

Manager, Student Union Building

SUMMER SESSION

Director, Summer Session

TRAFFIC AND SECURITY

Supervisor of Traffic and Security

UNIVERSITY TRANSCRIPTS

Registrar

OFFICE HOURS

The offices of the University are open throughout the year from 8:30 a.m. to 4:30 p.m., Monday to Friday, except on statutory holidays.



UNIVERSITY OF VICTORIA

VICTORIA, BRITISH COLUMBIA, CANADA

Calendar *1974-75*

The **University of Victoria** is constituted under the terms of the Universities Act (Bill number 63, 1963). This Act provides for the establishment of Convocation, the Board of Governors, the Senate, the Faculty Council, and the Faculties. It describes the powers and responsibilities of those bodies, as well as the duties of the officers of the University. Copies of this Act are held in the University Library. Persons who wish to purchase copies may do so through the Printer to the Queen's Most Excellent Majesty, The Parliament Buildings, Victoria, British Columbia, Canada.

1974

JANUARY	FEBRUARY	MARCH	APRIL
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1975

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ACADEMIC YEAR 1974-75

<i>Day</i>	<i>Date</i>	<i>Item</i>	<i>1974</i>
Saturday	*30 June	Last day for submission of applications for re-registration in undergraduate Faculties by returning students who are seeking registration in September 1974.	
Saturday	*30 June	Last day for submission of applications for admission to undergraduate Faculties by students who are seeking transfer from B.C. colleges.	
Monday	1 July	Academic Year 1974-75 begins.	
Monday	1 July	Dominion Day.	
Wednesday	3 July	Summer Session 1974 begins.	
Friday	16 Aug.	Summer Session 1974 ends.	
Wednesday	*31 July	Last day for submission of applications by all students not mentioned above under 30 June entry who are seeking admission to undergraduate Faculties in September 1974.	
Thursday	1 Aug. through	Supplemental examinations for Winter Session 1973-74	
Monday	5 Aug.	British Columbia Day.	
Tuesday	6 Aug.	Supplemental examinations end.	
Monday	2 Sept.	Labour Day.	
Tuesday	3 Sept.	Registration in person in all Faculties begins. Details of place and time are mailed to all students receiving notice of admission or authorization to re-register in September 1974. No registration in the Professional Years in Education will be accepted after this date.	
Wednesday	4 Sept.	Beginning of School Experience for students in all Professional Years in Education.	
Friday	6 Sept.	Last day of Registration.	
Monday	9 Sept.	First term classes begin.	
Tuesday	10 Sept.	First day of period for adding and dropping courses which begin in first term.	
Wednesday	11 Sept.	Senate meets.	
Friday	13 Sept.	Last day of 5-day period for late registration with permission. School Experience for students in Professional Years in Education ends.	
Monday	16 Sept.	Board of Governors meets.	
Friday	20 Sept.	First term classes for Professional Years in Education begin.	
Friday	20 Sept.	Last day of period for adding courses which begin in the first term. All change forms must be deposited at the Registrar's Office by 4:00 p.m. on this date.	
Wednesday	2 Oct.	Senate meets.	
Monday	14 Oct.	Thanksgiving Day.	
Monday	21 Oct.	Board of Governors meets.	
Friday	25 Oct.	Academic Assembly.	
Thursday	31 Oct.	Last day for dropping first term courses without penalty of failure. All change forms must be deposited at the Registrar's Office by 4:00 p.m. on this date.	
Wednesday	6 Nov.	Senate meets.	
Monday	11 Nov.	Remembrance Day.	
Monday	11 Nov. through	Reading Break. Classes cancelled.	
Tuesday	12 Nov.		

*This is a fixed due date. If it falls on a Saturday, Sunday or holiday, the preceding day of business will be considered as the deadline.

4 Academic Year

<i>Day</i>	<i>Date</i>	<i>Item</i>
Friday	*15 Nov.	Last day for submission of applications from third and fourth year students seeking to register in second term courses. (Not applicable to students already in attendance.)
Monday	18 Nov.	Board of Governors meets.
Wednesday	4 Dec.	Senate meets.
Friday	6 Dec.	Last day of classes in first term.
Tuesday	10 Dec.	First term examinations begin.
Monday	16 Dec.	Board of Governors meets.
Friday	20 Dec.	First term examinations end. End of first term.
Wednesday	25 Dec.	Christmas Day.
Thursday	26 Dec.	Boxing Day.

1975

Wednesday	1 Jan.	New Year's Day.
Monday	6 Jan.	Second term classes begin.
Monday	6 Jan.	Registration in person for third and fourth year students receiving authorization to register in courses beginning in the second term. (Not applicable to students in attendance in the first term.)
Wednesday	8 Jan.	Senate meets.
Friday	10 Jan.	Last day for adding courses which begin in the second term. All change forms must be deposited at the Registrar's Office by 4:00 p.m. on this date.
Monday	20 Jan.	Board of Governors meets.
Wednesday	5 Feb.	Senate meets.
Monday	17 Feb.	Board of Governors meets.
Monday	24 Feb.	Reading Break. Classes cancelled.
Tuesday	25 Feb.	
Friday	28 Feb.	Last day for dropping full year and second term courses without penalty of failure. All change forms must be deposited at the Registrar's Office by 4:00 p.m. on this date.
Wednesday	5 Mar.	Senate meets.
Monday	17 Mar.	Board of Governors meets.
Friday	28 Mar.	Good Friday.
Monday	31 Mar.	Easter Monday.
Wednesday	2 Apr.	Senate meets.
Friday	4 Apr.	Last day of classes in the second term.
Wednesday	9 Apr.	Examinations begin.
Monday	21 Apr.	Board of Governors meets.
Friday	25 Apr.	Examinations end. End of Winter Session.
Thursday	1 May	May-June courses begin. (See page 350.)
Wednesday	7 May	Senate meets.
Monday	19 May	Victoria Day.
Tuesday	20 May	Board of Governors meets.
Thursday	22 May	Senate meets (tentative, special meeting).
Saturday	31 May	Convocation.
Wednesday	4 June	Senate meets.
Monday	16 June	Board of Governors meets.
Tuesday	17 June	May-June courses end.
Monday	30 June	Academic Year 1974-75 ends.

*This is a fixed due date. If it falls on a Saturday, Sunday or holiday, the preceding day of business will be considered as the deadline.

GENERAL INFORMATION

HISTORICAL OUTLINE

The University of Victoria came into being on July 1, 1963, but it had enjoyed a prior tradition as Victoria College of sixty years' distinguished teaching at the university level. This sixty years of history may be viewed conveniently in three distinct stages.

Between the years 1903 and 1915, Victoria College was affiliated with McGill University, offering first and second year McGill courses in Arts and Science. Administered locally by the Victoria School Board, the College was an adjunct to Victoria High School and shared its facilities. Both institutions were under the direction of a single Principal: E. B. Paul, 1903-1908; and S. J. Willis, 1908-1915. The opening in 1915 of the University of British Columbia, established by Act of the Legislature in 1908, obliged the College to suspend operations in higher education in Victoria.

In 1920, as a result of local demands, Victoria College began the second stage of its development, reborn in affiliation with the University of British Columbia. Though still administered by the Victoria School Board, the College was now completely separated from Victoria High School, moving in 1921 into the magnificent Dunsmuir mansion known as Craigdarroch. Here, under Principals E. B. Paul and P. H. Elliott, Victoria College built a reputation over the next two decades for thorough and scholarly instruction in first and second year Arts and Science.

The final stage, between the years 1945 and 1963, saw the transition from two year college to university, under Principals J. M. Ewing and W. H. Hickman. During this period, the College was governed by the Victoria College Council, representative of the parent University of British Columbia, the Greater Victoria School Board, and the provincial Department of Education. Physical changes were many. In 1946 the College was forced by post-war enrolment to move from Craigdarroch to the Lansdowne campus of the Provincial Normal School. The Normal School, itself an institution with a long and honourable history, joined Victoria College in 1956 as its Faculty of Education. Late in this transitional period (through the co-operation of the Department of National Defence and the Hudson's Bay Company) the 284-acre campus at Gordon Head was acquired. Academic expansion was rapid after 1956, until in 1961 the College, still in affiliation with U.B.C., awarded its first bachelor's degree.

In granting autonomy to the University of Victoria, the *Universities Act* of 1963 vested administrative authority in a Chancellor elected by the Convocation of the University, a Board of Governors, and a President appointed by the Board; academic authority was given to a Senate which is representative both of the Faculties and of the Convocation. Dr. Joseph B. Clearihue, who was first associated with the former Victoria College in 1902 as a student, became the first Chancellor of the University in the autumn of 1963. Dr. Malcolm Gordon Taylor was appointed first President of the University in July 1964 and served until June 30, 1968. Professor Robert T. Wallace was appointed Acting President for one year. On July 1, 1969, Dr. Bruce J. Partridge became President, serving until January 31, 1972, when Dr. Hugh E. Farquhar was appointed President (pro tem.). Subsequently, on July 1, 1972, Dr. Farquhar was appointed President. Richard B. Wilson was elected Chancellor of the University by acclamation in September 1966 for a three year term. In December 1969, Roderick Haig-Brown was elected Chancellor of the University and served until December 1972, when Robert T. D. Wallace was elected Chancellor of the University.

The historical traditions of the University are reflected in its academic regalia. The B.A. hood is of solid red, a colour that recalls the early affiliation with McGill. The B.Sc. hood, of gold, and the B.Ed. hood, of blue, show the colours of the University of British Columbia. Blue and gold have been retained as the official colours of the University of Victoria.

GLOSSARY OF UNIVERSITY TERMS

New students will find the following definitions helpful in becoming familiar with the contents of this Calendar.

Auditor — A student who pays a fee to sit in on a course without participating in any way. Auditors are not entitled to credit.

Award — See list of definitions on page 359.

Class — The standing obtained in a course, a year's study, or the courses counting for graduation, i.e. First Class, Second Class.

Concentration — The area or subject of specialization within the General Degree programme in the Faculty of Arts and Science.

Convocation — Academic assembly; body of graduates of the University.

Co-requisite — A specific course or requirement which must be undertaken at the same time as a prescribed course.

Course — A particular part of a subject studied, such as English 111.

Credit Unit — Positive numerical value used in assigning the value of a course, such as Economics 100 (3).

Discipline — A subject of study within a department.

Full-time Student — An undergraduate student undertaking 12 or more units of study.*

Grade Point — Positive numerical value given to an alphabetical letter grade used in assessment of academic performance.

Grade Point Average — The weighted average of the grade points received from a full year of study.

Graduate Student — A student who has received a Bachelor's degree or equivalent and who is enrolled in a programme leading to a Master's or Doctoral degree.

Lower Level — Courses numbered between 100 and 299.

Major — The subject or area of specialization or emphasis in a degree programme in the Faculty of Arts and Science or in the Faculty of Fine Arts.

Part-time Student — An undergraduate student undertaking fewer than 12 units of study.*

Pre-requisite — A preliminary requirement which must be met before registration in a prescribed course.

Probation — A period of trial for a student whose registration is subject to academic conditions.

Programme — The courses of study organized to fulfil an academic objective, such as a B.Sc. programme.

Registration — Formal enrolment in courses.

Regular Student — A student who is registered as a candidate for a University of Victoria degree, or as a candidate for the University of Victoria Diploma in Education.

Section — The division of a course, e.g. Section 01 of French 100.

Session — Designated period of time during which courses of study are offered, i.e., Winter Session, Summer Session.

Special Student — A student who is admitted to credit courses but who is not a candidate for a University of Victoria degree.

Term — A period of time in the academic year; a term in the Winter Session consists of 13 weeks, in the Summer Session, approximately 3 weeks.

Transcript — A copy of a student's permanent academic record.

Undergraduate Student — A student registered in an undergraduate faculty or in a programme leading to a Bachelor's degree or an undergraduate diploma.

Upper Level — Courses numbered between 300 and 499.

Year — A minimum of 15 units of courses; the level within a programme of study or the level of a course, e.g. First Year student, First Year course (Physics 101).

*See page 312 for graduate students.

ACADEMIC REGALIA**Chancellor**

Gown purple corded silk, trimmed with purple velvet and gold braid.

Headdress black velvet mortarboard, trimmed with gold braid.

President

Gown royal blue corded silk, trimmed with blue velvet and gold braid.

Headdress black velvet mortarboard, trimmed with gold braid.

Board of Governors

Gown Cambridge (Doctor of Music) pattern, grey material, with gold and blue ribbon trim.

Headdress black cloth mortarboard, with black silk tassel.

Honorary Degree of Doctor of Laws

Gown Cambridge (Doctor of Music) pattern, scarlet wool broadcloth, trimmed with blue-purple silk taffeta.

Hood Aberdeen pattern, outside shell of scarlet wool broadcloth, lined with blue-purple silk taffeta.

Headdress Tudor style in black velvet with red cord trim.

Honorary Degree of Doctor of Science

Gown Cambridge (Doctor of Music) pattern, scarlet wool broadcloth, trimmed with gold silk taffeta.

Hood Aberdeen pattern, outside shell of scarlet wool broadcloth, lined with gold silk taffeta.

Headdress Tudor style in black velvet with red cord trim.

Bachelors

Gown traditional (Canadian) Bachelor's style, in black.

Hood Aberdeen pattern (B.A., B.Sc. and B.Ed., without neckband and finished with two cord rosettes; B.F.A. and B.Mus. with mitred neck-piece), outside shell of silk taffeta in a solid colour, lined with identical material.

Faculty colours are as follows:

B.A.	— scarlet
B.Sc.	— gold
B.Ed.	— blue
B.F.A.	— green
B.Mus.	— pink

Headdress standard black cloth mortarboard with black silk tassel.

Masters

Gown traditional (Canadian) Master's style in black.

Hood similar in design and colour to the respective Bachelor's hoods, but with mitred neckpiece and a narrow band of black velvet one inch from edge of hood on the outside only.

Headdress standard black cloth mortarboard with black silk tassel.

Doctors

Gown Cambridge style, black silk, front facings and sleeve linings of scarlet silk.

Hood Oxford Doctor's Burgon shape, shell of scarlet silk, lined with blue silk, border of gold silk.

Headdress Black velvet mortarboard with red tassel fastened on left side.

ACADEMIC YEAR

The academic year begins on the first day of July and ends on the last day of June. The Winter Session is divided into two terms — the first, September to December; the second, January to April. The Summer Session consists of approximately seven weeks' instruction in July and August. The Calendar Supplement for Summer Session is published separately. A supplemental list of credit courses offered in the late afternoon and evening is also published separately.

PROGRAMMES OFFERED

For the academic year 1974-75 the University offers the following degrees through the Faculty of Arts and Science, the Faculty of Education, the Faculty of Fine Arts, the Faculty of Graduate Studies: Bachelor of Arts, Bachelor of Science, Bachelor of Education (a five-year degree preparing teachers for the Elementary and Secondary schools of the Province); Bachelor of Fine Arts, Bachelor of Music, Master of Arts, Master of Education, Master of Fine Arts, Master of Music, Master of Public Administration, Master of Science, Doctor of Philosophy. Also offered are Diploma Programmes in Education for graduates seeking teacher certification.

The Faculty of Law will offer the degree of Bachelor of Laws, beginning in 1975-76.

CHOICE OF PROGRAMME

In choosing undergraduate degree programmes, students are strongly urged to consult the Calendar prescriptions for the degree programme desired. In particular, students choosing the Bachelor of Science degree should normally have taken mathematics and science courses in senior secondary school.

Students who register in the Faculty of Arts and Science or the Faculty of Fine Arts and who intend to undertake studies at a later date in the Faculty of Education should plan their programmes with this in mind. Advice may be obtained from the Advising Centre of the Faculty of Education.

PRE-PROFESSIONAL STUDIES

Students who intend to complete a year or two of studies and then transfer to another university are urged to design their programmes so that they will meet the requirements of the other institution they plan to attend. In this connection, by proper selection of First Year courses in Arts and Science, students may equip themselves to enter the first year of Engineering, Forestry, Nursing, and the second year of Agriculture, Physical Education, Pharmacy, at certain other universities. Courses preparatory to Medicine, Dentistry, Architecture, etc., may be taken at the University. See page 357. **Pre-Professional Education.** Advice may be obtained from the Advising Centre of the Faculty of Arts and Science.

LIMITATION OF ENROLMENT

The University reserves the right to limit enrolment, and to limit the registration in, or to cancel or revise, any of the courses listed. The curricula may also be changed, as deemed advisable by the Senate of the University.

Except in special circumstances, no student under the age of sixteen may be admitted to the First Year, or under the age of seventeen to the Second Year.

CATEGORIES OF STUDENTS

Each student who has been authorized to register in a Faculty or School other than Graduate Studies is designated as one of the following:

1. Regular student { Candidate for a degree
 { Candidate for a diploma in Education
2. Special student

Students registered in the Faculty of Graduate Studies should refer to categories of students given on page 312.

CLASSIFICATION OF STUDENTS BY YEAR

Classification of Regular Students by Year is based on the number of units completed, as follows:

Below 12 units	First Year
12 to 26.5 units	Second Year
27 to 41.5 units	Third Year
42 units or above	Fourth Year (4 year programmes)
42 to 56.5 units	Fourth Year (5 year B.Ed. only)
57 units or above	Fifth Year (5 year B.Ed. only)

Special Students are unclassified as to Year.

COURSE VALUES AND HOURS

Each course which is offered for credit has a unit value. A full course normally has a value of 3 units. In the course outline given in each of the Faculties, the number of units assigned to each course is given in brackets immediately following the course number. Thus ANTH 305 (1½) indicates that Anthropology 305 has a value of 1½ units.

The hours assigned for lectures, laboratory or practical sessions and tutorials in a course are indicated in the following examples:

- (2-3; 2-3) — 2 hours lecture and 3 hours laboratory or practical session per week, both terms.
- (2-3) — 2 hours lecture and 3 hours laboratory or practical session per week, one term only.
- (2-1-1; 2-1-1) — 2 hours lecture, 1 hour laboratory or practical session and 1 hour tutorial per week, both terms.
- (3-0-1) — 3 hours lecture and 1 hour tutorial per week, one term only.

The term in which a one-term course is given is indicated by the use of one of the following:

- September-December only.
January-April only.

LECTURE AND LABORATORY SCHEDULE

The schedule of classes for the Winter Session is published in early July.

EXAMINATION TIMETABLES

Timetables are posted on official University bulletin boards approximately two weeks before the dates announced for the beginning of Christmas and April examinations.

Students are invited to consult the Registrar concerning the interpretation of University regulations, especially those regulations which make provision, in exceptional circumstances, for appeals to appropriate University officers. The Registrar will be pleased to give any advice and assistance he can.

RE-REGISTRATION

All inquiries relating to re-registration in undergraduate Faculties should be addressed to the Associate Registrar.

APPLICATION FOR RE-REGISTRATION

1. Students who were registered in a previous session at the University must submit an Application for Re-Registration to the Associate Registrar by the following dates:
Winter Session 1974-75:
June 30: for all students seeking to register in both terms of the Winter Session.
November 15: for all Third and Fourth Year students seeking to register in the Second Term in the Winter Session (not applicable to First and Second Year applicants. See *Registration for One Term Only*, page 20).
2. Late applications for the Winter Session must be accompanied by a letter of explanation.
3. Applicants desiring to undertake fewer than nine units of credit, in the evening in particular, may apply as late as August 30. However, such applicants are urged to apply by the earlier due date, mentioned above, in order to avoid disappointment due to limitations on enrolment.
4. Students who have been required to withdraw from the University in the past because of unsatisfactory performance and who wish to be considered for re-registration must include a letter of appeal addressed to the Senate Committee on Admission and Re-registration, c/o the Registrar, when making application for re-registration.
5. Students who have registered at another university or college since last in attendance at the University are required to state the names of all educational institutions of post-secondary level attended and to submit official transcripts of their academic records at the institutions attended, by the due date mentioned above.
6. If the results of deferred examinations affect the standing of a student, his Authorization to Re-register will not be issued until examination results are available.

ADMISSION

All inquiries relating to admission to Faculties and Schools other than Graduate Studies should be addressed to the Director of Admissions. Inquiries relating to admission to the Faculty of Graduate Studies should be addressed to the Dean of Graduate Studies. (See page 311.)

APPLICATION FOR ADMISSION

1. Persons seeking admission for the first time must obtain an Application for Admission form from the Director of Admissions. This form will be available after March 1 for Summer Session and after May 1 for Winter Session, and must be returned, fully completed and accompanied by all official transcripts of academic records, to the Director of Admissions by the following dates:

Summer Session 1974:

May 1: for all applicants.

Winter Session 1974-75:

- (a) *June 30:* for all applicants seeking transfer from colleges in British Columbia in order to undertake courses in both terms of the Winter Session.
- (b) *July 31:* for all other applicants seeking admission in order to undertake courses in both terms of the Winter Session.
- (c) *November 15:* for all applicants for Third and Fourth Years seeking to transfer from other post-secondary institutions in order to undertake half-year courses beginning in the Second Term of the Winter Session. (Not applicable to applicants for First and Second Years — see Registration for One Term Only, page 20).

A student who experiences difficulty in obtaining official transcripts or other documents should still submit his application by the due dates mentioned. This will indicate to the Admissions Office that the student is seeking a place and would like one retained for him.

2. Late applications must be accompanied by a letter of explanation.
3. Applicants desiring to undertake fewer than 9 units of credit, in the evening in particular, may apply as late as August 30. However, such applicants are urged to apply by the appropriate due date mentioned above in order to avoid disappointment owing to limitations on enrolment.
4. Students are reminded that all questions on the application form must be answered. In particular, students applying for financial aid must be able to give their Social Insurance numbers. For example, Government requires that applicants for Canada Student Loans have a Social Insurance number. Application for a number may be made through *Canada Manpower*.
5. Persons applying for admission to the 1974 Summer Session who plan to attend the Winter Session 1974-75 must submit an Application for Re-registration to the Registrar (see page 10), and may apply for Winter Session up to the end of the first week of classes in the Summer Session, without penalty.
6. Persons seeking admission to the Faculty of Graduate Studies should consult page 311.
7. Each applicant applying for the first time must submit two copies of official transcripts of secondary school records and of any higher studies taken. These statements must accompany the Application for Admission form. Every applicant is required to state the names of all educational institutions of secondary or higher level attended and to submit evidence of the standing obtained at each. Applicants who hold a B.C. teaching licence or certificate must supply a photo-copy of the teacher's card. In addition, candidates who undertook formal teacher-training more than ten years ago must present with their applications recent reports on their teaching effectiveness from Principals and/or Superintendents. These candidates must also supply a written résumé of their teaching experience. Applicants who have been registered in Grade XIII (B.C.) but who did not undertake the examinations offered by the Department of Education must supply a letter from their school stating the reasons why the examinations were not undertaken.

8. Each applicant whose academic records, in whole or in part, originate outside the Province of British Columbia must pay an Evaluation Fee of \$10. This fee, which is not refundable and which is not applicable to tuition fees, must accompany the Application for Admission or must be paid when evaluation of documents is requested prior to application being made.
9. Candidates presenting transcripts from academic institutions outside North America may be required to supply a catalogue or syllabus showing the description of courses studied and the duration of those courses.
10. Transcripts in languages other than English or French must be submitted together with official, notarized translations into English or French.
11. The University reserves the right to limit enrolment. In addition, although an applicant may be admissible to the University, it may not be possible to grant him entry to the specific programme he would wish to follow.
12. Applicants should consult the admission requirements for each Faculty since, in certain cases, the applicant must demonstrate special aptitudes beyond the normal academic requirements, e.g. in Music, Visual Arts, Physical Education, etc.
13. All applicants will be informed in writing of their acceptance or rejection as soon as their applications can be processed by the Admissions Office. Applicants should not anticipate acceptance and should wait for written confirmation before setting out for University. This is particularly applicable to applicants who live at some considerable distance from Victoria.
14. Applicants who do not meet the requirements for admission to the University have the right to appeal their cases to the Senate Committee on Admission and Re-registration. This procedure is carried out by submitting the appeal in writing through the Director of Admissions. In making appeal, a candidate should state specifically why he believes University regulations should be waived in his case.
15. The University of Victoria does not require applicants to undertake the aptitude and achievement tests administered by the Service for Admission to College and University (SACU) or by the College Entrance Examination Board (CEEB). Applicants, particularly those from outside British Columbia, may, if they so desire, include the results of such tests when making application for admission. These results, however, will not be accepted in lieu of the published requirements for admission.

ADMISSION REQUIREMENTS

The following regulations notwithstanding, the University reserves the right to reject applicants for admission on the basis of their overall academic records, even if they technically meet entrance requirements:

1. GRADUATES OF BRITISH COLUMBIA SECONDARY SCHOOLS:

The qualifications for admission to the University are as follows:

(A) ADMISSION FROM GRADE XII

- (i) Application must have fulfilled the requirements for graduation from senior secondary school prescribed by the Department of Education of the Province of British Columbia, and, *except as provided in (ii) below*, must present, as a minimum, credit in Mathematics 11 and one Science or Language course to the Grade XI level. Normally, applicants must have fulfilled these requirements by June of the year in which admission is being sought.
- (ii) Graduates who do not have credit in Mathematics 11 and a Science or Language course to the Grade XI level, but who have qualifications that may make them otherwise eligible for programmes in certain departments, are invited to consult departmental requirements listed below and submit an application in the normal way, together with a statement indicating their choice of programme.
- (iii) Applicants may not receive University credit for senior secondary school courses. However, applicants with high standing may be granted advanced placement. Such applicants are invited to consult with the departments concerned prior to registration in courses. (See Departmental Requirements, below.)

- (iv) The above regulations apply to the graduates of both accredited public senior secondary schools and schools which hold membership in the British Columbia Federation of Independent School Associations or in the Independent Schools Association of British Columbia.

The previous regulations notwithstanding, any applicant has the right to apply by formal letter of petition submitted to the Senate Committee on Admission and Re-registration, c/o Director of Admissions.

NOTE: The University reserves the right to change the entrance requirements of the University before 1975, by, for example, establishing specific courses or a specific average, or a combination of these, as requirements for entry to the University after September 1974.

DEPARTMENTAL REQUIREMENTS

For the convenience of applicants who have graduated from British Columbia senior secondary schools, the secondary school course requirements specified for entry into programmes offered within the Faculties and Departments of the University are assembled in the following list.

FACULTY OF ARTS AND SCIENCE

Department of Anthropology

No requirements for Anthropology 100, but Mathematics 11, a Science 11 and a Language 11 are recommended for Anthropology 200, 240 and 250.

Department of Bacteriology & Biochemistry

See requirements for the Departments of Chemistry, Mathematics and Physics. Chemistry 12, Mathematics 12 and Physics 12 are recommended.

Department of Biology

No specific prerequisites, although a background in Chemistry, Physics, and Mathematics is strongly advised.

Department of Chemistry

Students wishing to enter Chemistry 120 must have passed at least Chemistry 11 and Mathematics 12. Those wishing to enter Chemistry 124 must have passed Chemistry 12 and Mathematics 12. All students are strongly advised to take Physics 11 and, preferably, 12 in addition to these requirements.

Students who lack the above Chemistry or Mathematics prerequisites must consult with the Department of Chemistry prior to registration. They will be required to register in specific sections (with four lectures per week) of Chemistry 120 or 124 and are advised that they may encounter difficulties in passing these courses.

Students with excellent standing (at least 80% average) in Government of British Columbia scholarship examinations (or their equivalent) in at least two Sciences may be granted permission to register directly in Chemistry 224.

Department of Classics

Students may begin the study of Latin and Greek without prerequisites in those languages. There are no prerequisites for Classical Studies courses. Latin 140 requires at least one year of secondary school Latin or permission of the Department; Latin 240 requires four years of secondary school Latin.

Department of Economics

Mathematics 11 is required. Students are advised to complete Mathematics 12 as well.

Department of English

Students wishing to take a major or honours degree in English should complete Literature 12.

French Language and Literature

French may be studied without prerequisites. Students who wish to begin the study of French are admissible to French 100. French 11 is required for entry into French 160. French 12 is required for entry into French 180.

Department of Geography

No prerequisites are prescribed.

Department of Germanic Languages and Literature

Students may begin the study of German at the University. Students with one or two years of German, i.e., Ger. 9 and 10, or Beg. Ger. 11, are placed in German 140. Those with three or more years of study will be placed at an appropriate level.

Department of Hispanic and Italian Studies

Spanish, Italian and Portuguese may be studied without prerequisites. Students presenting Spanish from secondary school may be granted special placement.

Department of History

There are no specific prerequisites.

Department of Linguistics

There are no specific prerequisites but the Department recommends a knowledge of a second language or Mathematics 12.

Department of Mathematics

Student must complete Mathematics 12. However, Mathematics 11 is sufficient for entry into Mathematics 160 (required for B.Ed. Elementary).

Department of Philosophy

There are no specific prerequisites.

Department of Physics

Mathematics 12 is required for entry into the Physics and Astronomy programmes; Physics 11 and 12 are expected, although students lacking Physics 11 or 12 may enter the programmes by registering in special sections of the first year Physics course. Students planning to take the honours programme should normally also have completed Chemistry 11 or 12. Advanced placement in Physics is available for students with high standing in both Mathematics 12 and Physics 12.

Department of Political Science

There are no specific prerequisites but students are urged to take Mathematics to at least the 11 level.

Department of Psychology

Mathematics 11 and a Science 11 are required for Psychology 100. Students are advised to take one of these subjects at the 12 level.

Department of Slavic and Oriental Studies

The study of Russian, Chinese, Japanese, Serbo-Croatian may be undertaken without prerequisites from secondary school.

Department of Socialay

Mathematics 11 and a Science 11, *or* Mathematics 11 and 12, *or* a Science 11 and 12, are required.

FACULTY OF EDUCATION

Prospective students for the Bachelor of Education (Elementary Curriculum) are required to have Mathematics 11 and are strongly advised to complete a Science course in Grade XI or XII. Students are referred to departmental requirements in the Faculty of Arts and Science when considering their selection of teaching areas of study. The teaching areas of study for the B.Ed. (Elementary Curriculum) are given on pages 258 to 262 of the 1974-75 University Calendar.

Prospective students for the Bachelor of Education (Secondary Curriculum) are referred to departmental requirements in the Faculty of Arts and Science when considering their selection of teaching areas of study. The teaching areas of study for the B.Ed. (Secondary Curriculum) are given on pages 264 to 269 of the 1974-75 University Calendar.

Prospective students for the Physical Education Programme are strongly advised to take Biology 11 and Chemistry 11.

Candidates for the Industrial Education programme should take Math 11 and Physics or Chemistry at the Grade 11 or 12 level, in addition to their Industrial Education courses.

FACULTY OF FINE ARTS

There are no specific secondary school prerequisites for entry into History in Art, Music, Theatre and Visual Arts.

In Music and Theatre, auditions are required.

(B) SPECIAL ADMISSION OF DISTINGUISHED STUDENTS STILL REGISTERED IN SENIOR SECONDARY SCHOOLS IN BRITISH COLUMBIA

- (i) Distinguished senior secondary school students may apply for conditional admission to the University prior to graduation from their secondary school provided that the following criteria are met:
 - a. The student must be recommended by the Principal of his school.
 - b. The student must be maintaining a B average in all his subjects and an A average in the discipline he wishes to study at the University. If the student elects a discipline not taught in his secondary school, his Principal must make a special recommendation, in writing, stating the student's particular aptitudes.
 - c. The University Department concerned must support the student's application.
 - d. The student must be completing a total of at least 12 courses in Grades XI and XII leading to graduation. The student should normally be taking such number of courses as are required for access to scholarships offered by the Government of the Province.
- (ii) Students interested in undertaking courses and who have satisfied the criteria in (i) a. to d. above should apply to the Director of Admissions by July 31 for full-year courses or half-year courses in either term, Winter Session 1974-75.
- (iii) The University will accept applicants who have met the above criteria and will register them as "special students" in no more than 6 units of work in any given academic session.
- (iv) Credit towards a degree will be granted by the University for courses successfully completed when the student is authorized to register in a degree programme.

(C) ADMISSION FROM GRADE XIII (B.C.):

- (i) Applicants who have graduated on the Academic-Technical Programme and who have satisfactory standing in Grade XIII courses will be admissible to the University. "Satisfactory standing" is here to be defined as it is for students in attendance at the University of Victoria. See page 28. **Satisfactory Standing.**
- (ii) The University will grant credit for courses passed in the Grade XIII examinations on the same basis as for students at the University. See page 27. **Credit.**

- (iii) An applicant who cannot qualify for admission under (i) above may appeal in writing through the Admissions Office to the Senate Committee on Admission and Re-registration when making application for admission. Each such case will be judged separately by that committee.
- (iv) Adult applicants will be considered on an individual basis.

The above qualifications are approved by the Senate of the University. Inquiries relating to Secondary School Graduation should be addressed to the Department of Education, Victoria, B.C., or to the Superintendent of the applicant's School District.

2. GRADUATES OF SECONDARY SCHOOLS OUTSIDE BRITISH COLUMBIA:

The following specific admission requirements apply, provided that applicants' academic records meet in subject matter and standing both the requirements for admission to this University and the requirements for admission to a recognized university in their own province or country.

An applicant who has completed his secondary education outside the Province and whose family is permanently domiciled in British Columbia will be considered for admission on the same basis as graduates of British Columbia Secondary Schools. For this purpose, Grade XII in any other Canadian province is equated with Grade XII (B.C.)

If applicants are granted admission, they will normally be placed in the First Year but may be granted advanced placement or standing in certain subjects on assessment of their records by the Director of Admissions.

(A) APPLICANTS FROM OTHER CANADIAN PROVINCES:

Alberta, Saskatchewan, Manitoba, Nova Scotia, Newfoundland — Grade XII.

Ontario — Grade XII on the five-year Arts and Science Programme with an average of at least 70%, or full Grade XIII.

New Brunswick — Grade XIII.

Quebec — two years at a C.E.G.E.P. (academic programme).

Prince Edward Island — completion of first year at the University of Prince Edward Island or the equivalent.

(B) APPLICANTS FROM OTHER COUNTRIES:

- (i) General Certificate of Education (G.C.E.)
— standing in five subjects including English, a second language, mathematics, a laboratory science, and one academic elective, of which at least three must be at the Advanced (A) Level. At both Ordinary and Advanced Level an average grade of "3" with no subject below "4."
- (ii) School Certificate — as for the G.C.E. (i) above, with three passes at the Principal Level on the Higher School Certificate.
- (iii) University of Hong Kong Matriculation Certificate — standing equivalent to (i) above.
- (iv) Certificate of Matriculation of recognized universities.
- (v) High School Graduation and completion of at least one full year of study at an accredited college or university in the United States of America. Grade average of B or better. High School studies to include at least: 7 semesters of English, 6 semesters in a language other than English, 4 semesters laboratory science, 6 semesters mathematics. However, distinguished applicants who have completed high school graduation only may be admitted to the University. Such applicants must stand in the first 10% of the graduating class in their school.
- (vi) Applicants from India must, as a minimum requirement, possess a bachelor's degree, division I.

3. ADMISSION FROM OTHER UNIVERSITIES AND COLLEGES:

(A) ADMISSION FROM COLLEGES IN BRITISH COLUMBIA:

- (i) Applicants who have graduated on the Academic-Technical Programme prescribed by the Department of Education will be admissible to the University from colleges in British Columbia provided that their standing is satisfactory at the college attended. "Satisfactory standing" is here to be defined as it is for students in attendance at the University. See page 28. **Satisfactory Standing.**
- (ii) Credit for courses passed at colleges will be granted on the same basis as for students attending the University. See page 27. **Credit.**
- (iii) Applicants from colleges who have not achieved "satisfactory standing" are required to continue at the college in order to raise their standing to a satisfactory level.
- (iv) Transfer credit, as far as course content is concerned, will be granted provided that courses completed are equivalent to courses offered in the University curriculum (or if not offered are recognized as reaching University standards) and are appropriate to the degree programme elected by the applicant. See page 18.
- (v) Students previously admitted to public colleges in British Columbia but who lack secondary school graduation are invited to apply; they will be admitted with appropriate transfer credit provided that their college records are satisfactory. Each application will be considered separately by the Senate Committee on Admission and Re-registration.

(B) ADMISSION FROM OTHER COLLEGES AND UNIVERSITIES:

- (i) Applicants who meet the admission requirements under Section 1 or 2 above, and who have successfully completed studies at another university or at a college not included in 3(a) above, may be granted admission with transfer credit. Courses completed must be equivalent to courses offered in the University curriculum (or, if not offered, recognized as reaching University standards), must be appropriate to the degree programme elected, and normally constitute the equivalent of a full year of study when considered individually or in combination. Transfer credit will be tentative only and is subject to review after the students have completed one or more sessions at the University.
- (ii) A student who has failed his last year or has an overall weak record at another institution will not normally be permitted to transfer to the University of Victoria, even though he may possess the admission requirements for secondary school graduates.

Applicants planning to complete preliminary studies at another institution should verify that their proposed studies are fully acceptable to permit transfer to the University of Victoria.

Transfer credit granted in a degree programme is limited and may not normally be applied to the final 30 units of the programme.

College students on student visas who apply to transfer to the University of Victoria will be subject to academic screening on the same basis as students seeking admission directly from their home countries.

4. ADMISSION OF MATURE APPLICANTS:

The University of Victoria is anxious to assist persons domiciled in British Columbia who are at least 21 years of age to complete their higher education even though they may not possess formal university entrance requirements.

The Senate Committee on Admission and Re-registration deals with applications from mature persons on an individual basis. Candidates applying for admission are asked to carry out the following steps:

- (a) request an Application for Admission form by writing to the Director of Admissions;

(b) return the form, together with:

an official transcript of all academic work undertaken to date; a letter written by the applicant outlining his personal background and work experience; two letters of reference from employers or from persons who know the candidate well.

If possible, candidates should arrange an interview with the Director of Admissions who will be pleased to give whatever advice and assistance he can.

APPLICANTS FROM OTHER COUNTRIES

An applicant from a country where English is not the common language must satisfy the Director of Admissions that his knowledge of English is adequate to permit the successful pursuit of his studies. In particular, candidates seeking admission to the Faculty of Education are reminded that full and fluent command of the English language, both written and oral, is a prerequisite.

The University suggests that such applicants undertake the Test of English as a Foreign Language (TOEFL). Information concerning this test, times and places at which it is administered, may be obtained by writing to *Educational Testing Service*, Princeton, N.J., 08540, U.S.A. Applications are available from the University's Counselling Centre.

An applicant coming directly from another country must give satisfactory evidence of his ability to meet the costs of tuition, board and room, books, incidentals, and travel.

COURSE EQUIVALENCIES FOR TRANSFER CREDIT

The University publishes a list which shows the courses given at the colleges in British Columbia which are accepted for transfer credit by the University. This is available on request from the Director of Admissions.

REGISTRATION

COMPLETION OF REGISTRATION

In addition to completing the procedures mentioned above under the headings Application for Admission and Application for Re-registration all students in the Winter Session are required to register in person at times announced by the Registrar's Office. Each student, by his Notice of Admission or Authorization to Re-register will be informed of the time and place for registration in person. Sessional fees are payable at the time of registration.

All Notices of Admission and Authorizations to Re-register that are not used to register in the session to which they apply are automatically cancelled.

No registration will be valid until all required procedures have been completed and fees have been paid in accordance with the regulations given on page 33.

DECLARATION

Each student is required as part of his first application to furnish the information necessary for the University record, and to sign the following declaration:

I hereby accept and submit myself to the statutes, rules and regulations, and ordinances of the University of Victoria, and of the Faculty or School in which I am registered, and to any amendments thereto which may be made while I am a student of the University, and I promise to observe the same.

ENGLISH REQUIREMENT

All students enrolling in First Year, with the exception of those who have passed the B.C. Scholarship examination in English Composition, are required to write a qualifying examination to test their proficiency in expressing themselves in the English language. Students who fail the qualifying examination are required to complete English 111 with a grade of 'A' or English 111 and one of English 115, 121, 22. Details of the time and place of the examination will accompany the registration materials sent to each student. Students who fail the Qualifying Examination and whose first language is not English may be required to take Linguistics 099.

This regulation also applies to students who enter the University from other post-secondary institutions and who do not possess the equivalent of English 111 and one of English 115, 121, 122.

LATE REGISTRATION

The period for late registration in September is the first five days of classes.

REGISTRATION WITH UNSATISFACTORY STANDING

No student with unsatisfactory standing will be permitted to register without the permission of the Faculty or School concerned.

REGISTRATION IN FEWER THAN 9 UNITS OF CREDIT COURSES

Employed persons or others unable to undertake full-time studies who wish to register in fewer than 9 units of course work, and who have applied by the due date for re-registration (June 30) or new Admission (July 31) may elect to register by mail but must do so no later than August 30. Otherwise, registration must take place in person on a day appointed by the Registrar. Students who register after the appointed day will be subject to late registration fees. See page 33.

REGISTRATION FOR BOTH TERMS IN WINTER SESSION

Students planning to undertake studies in both terms of the Winter Session must register for all courses they intend to take, including half-year courses beginning in January.

REGISTRATION FOR ONE TERM ONLY

If suitable half-year courses are available, students eligible to register in Third or Fourth Year or higher (those holding acceptable credit for 27 units or more) may:

- (a) Register during the regular September registration period for a programme of half-year courses to be taken in the First Term only (applications due by June 30 or July 31 (see pages 10 and 11).
- (b) Register on the first day of classes in January for a programme of half-courses to be taken in the Second Term only (applications due by November 15).

REGISTRATION IN GRADUATE COURSES BY UNDERGRADUATES

Upon recommendation of the undergraduate department or Faculty concerned, and with the consent of the Dean of Graduate Studies, undergraduate students in the Fourth or Fifth Year with a GPA of 6.0 or higher in the previous year's work, may register in up to 3 units of graduate courses in any one session.

CONCURRENT REGISTRATION AT ANOTHER INSTITUTION

Normally, a student may not be registered concurrently in courses offered at the University of Victoria and in university level courses offered at another institution. In exceptional circumstances, such registration may be permitted but only with the prior consent of the Dean of the Faculty concerned or the Registrar.

CHANGES IN REGISTRATION

- (a) Students may add and drop courses during the first ten days of classes in the First Term and during the first five days in the Second Term upon submission of the appropriate change form to the Registrar's Office.
- (b) Students may drop courses until the last day of classes in October in the First Term and the last day of classes in February in the Second Term, provided they submit appropriate withdrawal forms to the Registrar's Office. Failure to notify the Registrar by the specified date will result in the student receiving an F for the course.
- (c) A student who has a grade of E or F in a First Term course may re-register in the course if it is offered in the Second Term, provided that he will be registered in not more than 18 units. A student who has an E in a First Term course may take a Second Term course which lists the First Term course as prerequisite only with the permission of the Department.

AUDITING A COURSE

A student may be admitted to a certain course as an auditor upon the payment of fees as specified on page 32. Auditors may participate in the course if they wish but will not receive credit for any work undertaken.

STUDENT RESPONSIBILITY

Students are responsible for ensuring that their courses have been chosen in conformity with Calendar regulations. Also, each student is responsible for the completeness and accuracy of his registration. He must ensure that there is no discrepancy between the programme he is following and that recorded in the Registrar's Office and that all changes, including those in address and telephone number, are reported promptly to the Registrar's Office. A student may not take courses for which he has not registered, and may not drop courses without permission.

A student who registers in a course for which he has previously received credit or for which he has received equivalent credit on transfer must indicate this by entering DUP (Duplicate) on his registration forms. Such registration, however, will be counted in determining the student's eligibility for a supplemental examination or scholarship standing and will be used when calculating standing and grade point average.

Also, a Regular Student who registers in a course which carries no credit in his degree programme or Faculty must indicate this by entering FNC (For No Credit) on his registration forms. Such registration will not be counted in computing a student's grade point average or standing, or in determining eligibility for scholarships or a supplemental examination.

MEDICAL REQUIREMENT

Students registering for the first time in the Winter Session are required to submit a health history. The necessary form is mailed to each student with his Notice of Admission, and must be completed and mailed to the University Health Service before registration can be completed. A medical examination is not compulsory except for resident students and those taking Physical Education courses. The medical examination is not provided by the University; it must be obtained at the student's own expense.

The University, through the Director of the University Health Service, may require a student to take a medical examination at any time during his attendance at the University. This measure exists to safeguard the medical welfare of the student body as a whole.

Students who are not residents of Canada are required to produce evidence of adequate sickness and hospital insurance coverage before registration can be considered complete.

ACADEMIC REGULATIONS

MINIMUM DEGREE REQUIREMENTS

Each candidate for a Bachelor's degree is required:

- (a) to present a passing grade in either a qualifying examination in English (see page 115); or a grade of 'A' in English 111, or a passing grade in English 111 and one of English 115, 121, 122, or equivalent;
- (b) to present credit in a minimum of 60 units of university level courses; at least 21 of these 60 units must be numbered at the 300 or 400 level, and at least 30 of the 60 units must normally be in courses that have been completed at the University;
- (c) to meet the specific degree and programme requirements prescribed by the undergraduate Faculty in which the candidate is registered.

FINAL YEAR STUDIES

Normally, all students must complete the final 15 units of courses at the University of Victoria. In exceptional circumstances, however, a student may take the final year of study at another university, subject to the regulations mentioned, above, and to the prior consent of the Dean of the Faculty concerned.

MAXIMUM COURSE LOAD

The maximum number of units a student is permitted to undertake in the Winter Session is 18; in the May-June period, 3; and in the Summer Session, 6.

MINIMUM COURSE LOAD AND ACCUMULATION OF CREDIT

Credit for courses may be accumulated by full-time or part-time studies in the Winter Session, or by studies in the Summer Session. In certain programmes, however, students are expected to commit themselves to studies in the Winter Session and to a specific number of units of courses; for example, Honours programmes in Arts and Science require 15 to 18 units in each Winter Session. Students are therefore referred to the Calendar entries of the individual faculties and departments for information on programmes that require a commitment to a specific number of units of courses in each Winter Session.

Students should note that to qualify for nearly all scholarships, bursaries and prizes administered by the University, the terms of the awards require enrolment in a minimum of 15 units in each Winter Session, and that present regulations governing Canada Student Loans require a minimum enrolment of 12 units.

REPEATING COURSES

A required course in which a passing grade has not been obtained must be repeated or a permissible substitute taken in the next session attended. However, no course may be taken more than twice unless the course is a required course that is outside the student's main area(s) of study.

PROMOTION

Students may not proceed to courses in a higher year unless they take concurrently all courses required to clear deficiencies in the lower years, subject to the limitations mentioned above. Students may proceed only to courses for which they have successfully completed prerequisites to the satisfaction of the departments concerned.

ADVANCED PLACEMENT OR EXEMPTION WITHOUT UNIT CREDIT

In exceptional circumstances, undergraduate students may already have prepared themselves by independent study or other experience to omit a required course or courses or to undertake more advanced work than that ordinarily prescribed in the initial stages of a departmental programme. Students desiring advanced placement in a particular discipline may apply to the department giving courses in that discipline for such placement.

Advanced placement or exemption from a required course carries no unit credit.

CREDIT BY SPECIAL EVALUATION (COURSE CHALLENGE)

In exceptional instances, the experience of a student may have prepared him to obtain credit by special evaluation for a given course, subject to the following conditions:

- (a) Credit by special evaluation is open only to undergraduate students who are formally registered at the University or who have been formally admitted to the University.
- (b) Credit by special evaluation is limited to 15 units of credit counted towards a degree.
- (c) Credit by special evaluation is available only in undergraduate courses in those departments whose policies permit special evaluations in those courses.
- (d) Credit by special evaluation will be granted only if the course concerned is applicable to the degree programme selected by the student.
- (e) Special evaluations shall be undertaken at the time or times specified by the department concerned.
- (f) A student may not apply for a special evaluation in any of the following circumstances:
 - i. the course is the equivalent of one in which he has registered previously at the secondary school, college or university level;
 - ii. the course is more elementary than courses for which he has already received credit;
 - iii. the course is at the 100 or 200 level in his native language (other than English).
- (g) When making application for a special evaluation, the student must first consult the department offering the course.
- (h) If the department permits the special evaluation, the student's application will be signed by the department head or chairman indicating this and the student will be informed of the time that the special evaluation will take place.
- (i) The student shall then submit the application to the Registrar together with the required fee, as provided for in the schedule of fees shown on page 37.
- (j) On payment of the fee, the Registrar's Office will authorize the special evaluation by means of a notation on the application form and will forward a copy of the form to the department so that the department may proceed with the evaluation.
- (k) On completion of the special evaluation, the department shall inform the student in writing of the grade received and shall also notify the Registrar's Office in writing.
- (i) The results of a special evaluation will be entered in the academic record of the student in the session in which he is registered. If the evaluation is completed before registration, the results will not be entered in the student's record until he is registered and in attendance. In any case, the grade received will be reflected in the student's sessional grade point average.

CREDIT FOR COURSES PASSED IN A YEAR FAILED PRIOR TO 1969-70

- (a) A student who intends to register in the final year of a degree programme may apply for credit in those courses which were passed within a failed year at the University of Victoria and for which no credit was granted, provided that the courses are applicable to the degree programme selected by the student. Application should be made to the Registrar when making application to register in the final year or when making application for graduation.
- (b) A student who intends to register in the final year of a degree programme may apply for credit in those courses which were passed within a failed year at another university or at a college and for which no credit was granted on admission, provided that the courses are applicable to the degree programme selected by the student. Appeals should be made in writing at the same time that application is made for registration in the final year of a degree programme, and should be addressed to the Senate Committee on Admission and Re-registration, c/o Registrar's Office. The Committee will judge each case separately and on its own merits. In particular, it will consider the student's total record of achievement at the University of Victoria.

PROBATION

A student may be placed on probation by the Registrar or the Dean of his Faculty because of:

- (a) a marginal record upon admission,
- (b) Unsatisfactory Standing in a previous session, or
- (c) a poor record in a previous term or session

In each case the student will be notified by the Registrar that he will be on probation. An interview will be arranged through the Dean of his Faculty, and the student may be requested to seek help at the Counselling Centre, the appropriate advising centre, or to take the Reading and Study Skills Workshop which is offered to all students by the Counselling Centre.

Depending upon the student's performance during the period of probation, the Dean may at any time either remove the student from probation for the remainder of the session or, acting on a decision of the Faculty, may require that the student withdraw from the University. (See page 28, **Withdrawal for Unsatisfactory Standing.**)

ATTENDANCE AT LECTURES

A student is expected to attend all lectures in each course for which he is enrolled. Admission to a lecture or laboratory may be refused by the instructor for lateness, misconduct, inattention or neglect of duty. A student who neglects his academic work, including assignments, may be debarred from the Christmas or the final examinations in a course. (See page 25, **Term Assignments.**)

ABSENCE CONSEQUENT ON ILLNESS

Students who are absent because of illness or disability should report to their instructors on return to classes.

GRADUATION

Convocation takes place in May each year. Each candidate for a degree must make formal application for graduation when registering in the final Summer or Winter Session preceding his anticipated graduation. Graduands who have received permission to complete a course or courses elsewhere must apply for graduation not later than December 1. Special forms for this purpose are available from the Registrar's office. See regulation regarding Graduating Class Fee, page 32.

EVALUATION OF STUDENT ACHIEVEMENT

ASSESSMENT TECHNIQUES

The Senate has adopted a range of assessment techniques available to each department, Faculty (in the case of Education) or School, for the purpose of evaluating student achievement. Each department, Faculty or School selects the assessment techniques it wishes to use from amongst those approved by the Senate.

At the beginning of the course, the instructor shall discuss with the students the methods used by his department, Faculty or School, in evaluating student achievement. The instructor shall then select the method or methods he will use from amongst those approved assessment techniques adopted by his department, Faculty or School. Upon making his decision, he shall inform both the students and the department, Faculty or School, in writing if possible, of the method or methods he will use.

EXAMINATIONS

Examinations in the winter session are held in December and April.

ILLNESS OR DOMESTIC AFFLICTION

Applications for special consideration because of illness or domestic affliction must be submitted in writing to the Registrar not later than two days after the close of the examination period. In all such cases a medical certificate or other substantiating document must be presented to the Registrar's Office.

DEFERRED EXAMINATIONS

If a student falls ill during an examination or misses an examination because of illness or domestic affliction, this must be brought to the attention of the Registrar. A physician's certificate or other substantiating document must be submitted to the Registrar within two days of the close of the examinations. The Registrar will communicate with the Instructor in regard to his assessment of the student's performance.

Please note: deferred examinations are granted only where final examinations are involved. Deferred examinations are normally held in August. If a deferred examination is not taken, the grade becomes N. The grade E is not granted to Summer Session and part-time students, who are not entitled to write supplementals.

LABORATORY WORK

In any course which includes laboratory work students will be required to make satisfactory standing in both parts of the course. Results in laboratory work will be announced by the department concerned prior to the final examinations, and students who have not obtained a grade of at least D will neither be permitted to write the examination nor to receive any credit for the course. If satisfactory standing is obtained in the laboratory work only and the course is repeated, exemption from the laboratory work may be granted with the consent of the department. The same rules may, at the discretion of the departments concerned, apply to non-science courses with laboratory work.

TERM ASSIGNMENTS

In any course which involves term assignments, students may be debarred from writing examinations if the required term work has not been completed to the satisfaction of the department concerned.

ENGLISH DEFICIENCY

Term essays and examination papers will be refused a passing grade if they are deficient in English; and, in this event, students will be required to pass a special examination in English to be set by the Department of English.

SENATE REGULATIONS FOR UNIVERSITY EXAMINATIONS

1. Candidates may not enter the examination room until invited to do so by the invigilator in charge.
2. Candidates are not permitted to enter the examination room after the expiration of one-half hour, nor leave during the first half-hour of examination. Invigilators should send unusual cases to the Registrar at once.
3. Candidates shall not make use of any books or papers other than those provided by the invigilators or authorized by the instructor in charge of the course.
4. Candidates shall not communicate in any way with each other. Candidates are not permitted to ask questions of the invigilator, except in cases of supposed errors in the papers.
5. If a candidate believes there is an error in a paper, he should report it immediately to the invigilator, and, after the examination, report the error in writing to the Registrar. If he has other reason for complaint, he should communicate with the Registrar within 24 hours.
6. A candidate may not leave the examination room without first delivering his examination booklets to the invigilator.

7. Candidates are advised not to write extraneous material in examination booklets.
8. Candidates who wish to speak to the invigilator should raise their hands or rise in their places.
9. Candidates may be called upon by the invigilator to produce identification papers bearing a photograph to prove their identity.
10. Candidates leaving or entering examination rooms should do so quietly in order not to disturb others. Having left the examination room, candidates are asked not to gather in adjacent corridors, lest they disturb candidates who are still writing.
11. Smoking is not permitted.
12. Candidates who fall ill during an examination should report at once to the invigilator.
13. Candidates who fall ill or who suffer domestic affliction before an examination should report the circumstances immediately to the Registrar.
14. In case of extreme misconduct, invigilators are empowered to expel candidates from an examination room. Under such circumstances, candidates may be required to withdraw from the University following an investigation of circumstances surrounding the misconduct.

EXAMINATION RESULTS

Instructors are permitted to release final grades to students in their classes who request them as soon as the grades have been forwarded by the department to the Registrar, on the understanding that grades are subject to final approval by the Senate in May. Statements of final grades will be mailed to students in the graduating class and to other students about the end of May, following granting of authority by the Senate to release grades.

First term results for full year courses are released by instructors, not by the Registrar's Office. Where courses are final at Christmas, instructors are authorized to release grades tentatively on the understanding that grades are subject to final approval by the Senate in May.

REVIEW OF AN ASSIGNED GRADE

Students may not have access to final examination papers without the permission of the Department or Faculty concerned and the Registrar.

Reviews, where permitted by the Faculty concerned, are governed by the following regulations:

1. Any request for a review of an assigned grade, other than for a supplemental examination (for which a request for a review will not be granted) must reach the Registrar within two weeks after the announcement of final grades and must be accompanied by a fee of \$7.50 for each course concerned, which will be refunded only if the grade is raised.
2. When applying for a review, the applicant must state clearly in writing why he believes his course deserves a grade higher than it received; pleas on compassionate grounds should not form part of the appeal. If the basis of an appeal depends, in part, on term work, any essays or assignments that have been returned to the student should be submitted with the letter of appeal. Prospective applicants should note that, if any examination paper is involved, the paper is read at least a second time before a grade of E or F is recorded. For that reason, an applicant who is eligible for a supplemental examination should prepare for the examination since a change in grade is unlikely and since the result of the review may not be available before the time of the supplemental examination.
3. Reviews will not be permitted in more than 6 units in a full programme in one Winter Session, and in 3 units in a partial programme of 9 units or less or in the work of one Summer Session.
4. During the session, if a student feels that a grade awarded for term work is unfair, he should discuss the matter informally with the instructor concerned. Failing that,

he should appeal directly to the Department Head or Chairman or to the Dean of the Faculty.

5. Students are advised that there can be no appeal against that part of a final grade which is based on oral examination, self-evaluation or class participation.

GRADING SYSTEM

The following letter grades are used in evaluating student achievement:

Letter Grade	Grade Point Value	*Class
A+ A, A-	9, 8, 7	First Class
B+, B, B-	6, 5, 4	Second Class
C+, C, D	3, 2, 1	Pass
E	0	Failure (conditional supplemental)
F	0	Failure (no supplemental)
N	0	Failure (did not write final examination or otherwise complete course requirements by the end of the term/session. No supplemental.)

*Does not apply to the Faculty of Graduate Studies.

STANDING

Undergraduates taking at least 15 units of work, and obtaining a grade of at least D in each subject with an average of 3.5 or higher, will be placed in one of the following categories on the basis of general average:

First Class, a grade point average of 6.5 or higher;

Second Class, a grade point average between 3.5 and 6.49;

The above categories are also used for standing at graduation.

STANDING AT GRADUATION

The graduating average of a student graduating from an undergraduate Faculty shall be determined as the weighted average of all 300 and 400 level courses taken for credit in the degree programme of the Faculty or school concerned, except where credit has been obtained for more than 30 units of such courses, in which case the 30 units yielding the highest weighted average will be selected (including, where necessary, the appropriate fraction of a course).

The above does not apply to students who are granted permission to undertake their Fourth Year at another university (see page 22). The classes of degrees to be awarded to such students shall be determined by the Dean of the Faculty in consultation with appropriate departments.

Students are referred to the Calendar entries for the individual undergraduate Faculties for additional regulations governing standing at graduation.

CREDIT

A student is entitled to receive credit for any course in which he attains a final grade of D or higher, provided that he has not previously received credit for the same course or its equivalent.

SATISFACTORY STANDING — UNDERGRADUATE STUDENTS**WINTER SESSION**

1. A student taking more than 9 units in the winter session will achieve satisfactory standing only if, as a result of his final grades, at the end of the session, he passes in courses totalling at least 9 units in value.
2. A student taking 9 units or fewer in the winter session will achieve satisfactory standing only if, as a result of his final grades at the end of the session, he passes in all his courses.

SUMMER SESSION

1. A student taking more than 3 units in summer session will achieve satisfactory standing only if, as a result of his final grades at the end of the session, he passes in courses totalling at least 3 units in value.
2. A student taking 3 units or fewer in summer session will achieve satisfactory standing only if, as a result of his final grades at the end of the session, he passes in all his courses.

WITHDRAWAL

The Board of Governors and the Senate may require a student to withdraw from the University at any time for unsatisfactory conduct, for failure to abide by regulations, or for unsatisfactory progress in his programme of studies or training.

Any student who after registration decides to withdraw from the University must first report to the Director of the Counselling Centre, or the Director of the Advising Centre (Education students), and then to the Registrar. He will be required to obtain clearance from the University, to the satisfaction of the Registrar, before being granted **Honourable Dismissal** or recommended, where applicable, for refund of fees. See page 20, **Changes in Registration**.

WITHDRAWAL FOR UNSATISFACTORY STANDING

1. An undergraduate student who, in the course of his academic career, fails to achieve satisfactory standing in any one session, will, if priorities subsequently established permit, be authorized to re-register at the University and will be placed on probation.
2. An undergraduate student who, in the course of his academic career, fails to achieve satisfactory standing in any two academic sessions, whether they be consecutive or not, will normally be required to withdraw for a period of not less than one year. A student who has been required to withdraw must apply in writing through the Registrar to the Senate Committee on Admission and Re-registration for authorization to re-register at the University in a future session.
3. If a student re-registers under 2, he must achieve satisfactory standing in all subsequent sessions, otherwise he will be required to withdraw permanently.
4. Any undergraduate student whose academic record, as determined by the grades assigned in the first term, is unsatisfactory, may, upon the decision of the Faculty or School and on notification by the Registrar, be required to discontinue attendance for the remainder of the session. A student so required to withdraw may appeal to the Senate for a review of his case by lodging a written appeal with the Secretary of Senate.

UNDERGRADUATE SUPPLEMENTAL EXAMINATIONS

1. (a) In the Winter Session no candidate will be granted supplementals in more than 3 units. A candidate will be granted a supplemental in a subject which he has taken during the session provided (i) he has written the final examination and has obtained a final grade of E, and (ii) he has obtained (as a result of the final ex-

aminations) at least 12 units of credit in that session. A grade of E confers only conditional supplemental standing and is not a guarantee of supplemental eligibility. Students in the Faculty of Education taking a *required* 18 unit year may write up to 6 units of supplementals. A student who obtains a grade of F in a given subject may not write a supplemental examination in that subject.

(b) **No supplementals will be granted to Summer Session and part-time students.**

2. If a grade of E is obtained in a December final, the student has the option of repeating the first term course in the second term if it is offered, or, if eligible, writing a supplemental examination in August.
3. A student who is a candidate for a degree to be awarded at the end of the Winter Session in which he is in attendance, will be granted supplemental examinations in more than 3 units of courses, at the discretion of the Dean of the Faculty concerned and the Registrar, provided that the student has written the final examination and has obtained a grade of E in each course for which a supplemental examination is requested.
4. If a supplemental granted in a course is passed with a grade of at least D, credit will be given for the course. In the computation of the overall average in the work of a session or for a degree, the grade in a supplemental, if passed, will be considered as D.
5. Similarly, the overall average will not be changed if a subject already passed is written for higher standing.
6. In all but the Final Year a candidate who has been granted a supplemental may write it only once. If he fails, he must repeat the course or take a permissible substitute. In the Final Year he may write it twice.
7. Supplemental examinations, covering the work of both the first and second terms, will be held in August.
8. Applications for supplemental examinations, accompanied by the necessary fees, must be in the hands of the Registrar by July 1.
9. If a student, because of exceptional circumstances, is permitted to postpone a supplemental beyond the first regular supplemental examination period, he will be responsible for the content of the course as currently offered. If the course is not offered or has been discontinued, the supplemental privilege may be cancelled. Attention is also drawn to the section under **Satisfactory Standing**.

Supplemental examinations may be written at the following B.C. centres: Cranbrook, Dawson Creek, Kamloops, Kitimat, Ocean Falls, Penticton, Powell River, Prince George, Prince Rupert, Trail, Vancouver; and at Whitehorse, Y.T. Other centres outside of British Columbia are restricted to universities or their affiliated colleges.

The fee for each supplemental examination written at the University of \$10.00; at a regular outside centre, \$15.00. In the event that a candidate does not appear for an examination, the refund will be \$5.00 only. Conditions governing refunds appear on page 37 under **Other Fees and Charges**.

TRANSCRIPT OF ACADEMIC RECORD

On request of the student, a certified transcript of a student's academic record will be mailed direct to the institution or agency indicated in the request. Each transcript must include the student's complete record at the University. Since standing is determined by the results of all final grades in each session, transcripts are not available for the first term grades until after the end the session.

Students records are confidential. Transcripts are issued only at the request of students or appropriate agencies or officials.

No certified transcript will be issued to or for a student who has not made arrangements satisfactory to the Accounting Office to meet any outstanding indebtedness.

Granted Honourable Dismissal indicates that the student is in no disciplinary difficulty at the time the transcript is issued; the term has no reference to academic status.

Application for a transcript should be made at least one week before the document is required.

Fees for transcripts of academic record: one copy free of charge at the completion of each session attended; three copies free of charge following graduation; additional copies supplied at the rate of 2 copies for \$1.00. Free copies may not be accumulated.

FEES

GENERAL

1. The University reserves the right to change fees without notice.
2. Fees are not transferable from one session or term to a subsequent session or term.
3. While the University may issue fee bills from time to time, it is the responsibility of the student to calculate his fees in accordance with the following regulations and to ensure payment by the prescribed dates. Failure to receive a fee bill does not relieve the student of this responsibility.
4. Students registering in the Summer Session should consult the Calendar Supplement for Summer Session which is published separately.
5. Transcripts will not be issued, and re-admission to the University may be denied, to those who have unpaid accounts.

TUITION FEES

UNDERGRADUATE PROGRAMMES:

Faculty of Law	\$506.00
Winter Session:	\$30.00 per unit (see "O" Unit Courses, page 32), with a maximum total fee of \$428.00 for the session
Summer Session and studies in May and June:	\$100.00 per 3 unit course (see "O" Unit Courses, page 32)
Le Maison Française:	\$160.00

GRADUATE PROGRAMMES:

NOTE: Students registering in programmes other than M.Ed. and M.P.A. will be assessed tuition fees in accordance with the 1973-74 schedule.

	<i>Master's degree</i>	<i>Doctor's degree</i>
First year	\$450.00	\$450.00
Second year	\$450.00	\$450.00
Third year	\$ 30.00	\$450.00
Subsequent years	\$ 30.00	\$ 30.00

Master's candidates completing all degree requirements in the first third of the second year will be exempt two-thirds of the second year fees; Master's candidates completing in the second third of the second year will be exempt one-third of the second year fees. Part-time students, and full-time students who change from full-time status in their second year, are assessed fees at \$60.00 per unit up to a maximum of \$450.00 per annum, but must pay at least \$900.00 for a Master's degree or \$1,350.00 for a Doctor's degree before graduation.

Special students and qualifying students are assessed fees at \$60.00 per unit up to a maximum of \$450.00 per annum. Fees paid in these categories are not applicable towards a subsequent degree programme.

Students taking a Doctor's degree after a Master's degree, both degrees taken at the University of Victoria, will pay a total of \$900.00 in tuition fees for the Doctor's degree in addition to the tuition fees paid for the Master's degree.

Master's candidates who are transferred to a Doctoral programme before completing the Master's degree may count at most \$450.00 in tuition fees paid as Master's candidates towards the tuition fee for a Doctor's degree.

Tuition fees cover all prescribed courses of study at the University of Victoria, direction and supervision of research, the use of laboratory and library facilities, and examinations. Tuition fees do not cover the cost of prescribed field trips, travel in connection with research, or the typing or binding of theses and dissertations.

"0" UNIT COURSES

Courses which have a "0" unit value are assessed a fee unit value for the purpose of assessing fees. This value is shown in the course description.

AUDITORS

Auditors are required to pay full tuition fees.

STUDENT ORGANIZATIONS — FEES AUTHORIZED BY THE BOARD OF GOVERNORS**ALMA MATER SOCIETY FEE**

The Alma Mater Society fee is required at the time of registration from all students registered in an undergraduate Faculty or programme in the Winter Session, as follows:

Students registering in the first term:

for 9 units or more	\$32.00
for less than 9 units	\$ 2.00 per unit

Students registering in the second term:

for 5 units or more	\$16.00
for less than 5 units	\$ 1.00 per unit

The above fees apply to all students registered for credit in Winter Session courses other than those courses which are taken off campus. The fees shall be assessed on the basis of the fee unit values of courses for which each student is registered as of the tenth day of classes in the first term and, for those students registering in the second term only, as of the fifth day of classes in the second term. Inquiries with respect to this fee should be directed to the Alma Mater Society.

STUDENT UNION FEE

The Student Union fee of \$2.00 is required at the time of registration from all undergraduate students registered in the Summer Session and in studies in May and June. Inquiries with respect to this fee should be directed to the Alma Mater Society.

GRADUATING CLASS FEE

The Graduating Class fee of \$10.00 is required at the time of registration from all undergraduate students registered in the Winter Session who expect to complete their degree requirements and graduate in this academic year (see **Graduation**, page 24). This fee is for the support of Graduating Class activities. Applications for partial refund of this fee by students who are not eligible to graduate at the end of the session, and any other inquiries with respect to this fee, should be addressed to the Graduating Class President, care of the Alma Mater Society.

GRADUATE STUDENTS' SOCIETY FEE

The Graduate Students' Society fee of \$15.00 is required once each year at the time of registration from all students registered in the graduate programmes. Students who continue in master's and doctoral programmes beyond the second year will be assessed the Graduate Students' Society fee yearly until they cease to be registered students. Inquiries with respect to the fee should be directed to the Graduate Students' Society.

OTHER SESSIONAL FEES — UNDERGRADUATE FACULTIES**EVALUATION FEE**

An evaluation fee of \$10.00 is required from applicants whose academic records, in whole or in part, originate outside British Columbia. The fee must accompany the Application for Admission, or must be paid when evaluation of documents is requested prior to application being made. The fee is not refundable and is not applicable to tuition fees.

LATE REGISTRATION FEE

A late registration fee of \$20.00 will be charged to any student who completes registration procedures after the time appointed by the Registrar.

REINSTATEMENT FEE

A reinstatement fee of \$25.00, additional to all other fees, must be paid by any student who wishes reinstatement in the same session after allowing his registration to become invalid. Reinstatement will be contingent upon the permission of the student's Dean and the Registrar.

OTHER SESSIONAL FEES — FACULTY OF GRADUATE STUDIES**APPLICATION FEE**

An application fee of \$5.00 is to be paid at the time of application for admission.

REINSTATEMENT FEES

A reinstatement fee of \$25.00, in addition to all other fees, must be paid by a student wishing reinstatement in the same session after having allowed his registration to become invalid by his failure to pay his outstanding fees, on the understanding that such reinstatement will be contingent upon the permission of the student's Dean and the Registrar.

A student who has allowed his registration in a graduate programme to lapse without permission, will be assessed a reinstatement fee of \$100.00 over and above any other applicable fees.

PAYMENT OF FEES**VALIDATION OF REGISTRATION**

Registration is valid only if enrolment procedures are completed in keeping with regulations given on page 19 and if fees are paid in accordance with the regulations that follow. If a student fails to validate his registration by payment of fees in accordance with these regulations he will not be entitled to attend classes or undertake examinations and must apply for reinstatement. Reinstatement in the same session will be contingent upon the permission of the student's Dean and the Registrar, and upon payment of the reinstatement fee in addition to all other outstanding fees.

INSTALMENT PAYMENTS

Although certain *tuition* fees may be paid in instalments (see below), all fees are payable at the time of registration.

MINIMUM FEE PAYMENT

A minimum payment of \$50.00 or, where applicable, one-half of sessional tuition fees, whichever is the lesser, is required from all undergraduate students at the time of registration. This payment is part of the first fee instalment (see below) and is applied to tuition fees. Students who provide documentary evidence that their full first fee instalment will be paid directly to the University by a government department or other organization will be granted exemption from this prepayment requirement.

SCHEDULE OF PAYMENTS — FIRST TERM

The schedule of minimum payments required from undergraduate students registering in the first term of the Winter Session (other than those registering in the Faculty of Law) is as follows:

At or prior to registration	\$50.00 (see Minimum Fee Payment above).
On or before October 11, 1974	\$30.00 per unit for courses which finish in the first term, plus \$15.00 per unit for courses taken in both terms, less the prepayment above.
	All applicable student organization fees.
	All late registration fees assessed.

On or before January 17, 1975

\$30.00 per unit for courses taken in the second term only, plus \$15.00 per unit for courses taken in both terms, subject to the maximum total tuition fee of \$428.00 for the session.

SCHEDULE OF PAYMENTS — SECOND TERM

The schedule of payments required from undergraduate students registering in the second term of the Winter Session is as follows:

At or prior to registration \$50.00 (see Minimum Fee Payment, page 33).
 On or before January 17, 1975 \$30.00 per unit, less the prepayment above.
 All applicable student organization fees.
 All late registration fees assessed.

CHANGE OF PROGRAMME

Students who, subsequent to the prescribed payment dates shown above, change their programmes so as to increase their fees for the current term, must pay such increases within two weeks of the change in their programmes.

ILLUSTRATION OF FEE PAYMENTS REQUIRED FOR AN UNDERGRADUATE PROGRAMME:

<i>Course programme</i>		<i>First Term</i>	<i>Second Term</i>	<i>Total Sessional Fees</i>
Courses which finish in the first term	4½ units	\$135.00		\$135.00
Courses taken in both terms	9 units	\$135.00	\$135.00	\$270.00
Courses taken in the second term only	3 units		\$ 90.00	\$ 90.00
Total	16½ units	\$270.00	\$225.00	\$495.00
Reduction in second term to adjust total sessional fees to maximum of \$428.00			\$ 67.00	\$ 67.00
Total tuition fees		\$270.00	\$158.00	\$428.00
A.M.S. fee		\$ 32.00		\$ 32.00
Fee payments required		\$302.00	\$158.00	\$460.00

This example is for illustrative purposes only. The fee payments required from individual students may differ, and will depend upon their particular course programmes.

SCHEDULE OF PAYMENT — GRADUATE STUDENTS

The schedule of payments required from students registering in graduate programmes will be issued at the time of registration. All other fee regulations apply to these programmes.

LATE PAYMENT FEE

A late payment fee, additional to all other fees, will be charged when fees are not received in the Accounting Office on or before the due dates specified above. This fee is 10% of the unpaid balance; minimum \$5.00, maximum \$20.00. Students who wish to appeal against this fee must do so in writing to the Late Payment Fee Appeals Committee and such appeals must be received within fourteen days from the imposition of the fee. Appeals will not be considered unless the student's current fee instalment, including late payment fee, has been paid in full.

METHOD OF PAYMENT

1. Fees should be paid, in person or by mail, to the Accounting Office.
2. Cheques should be made payable to "University of Victoria". Those students who do not pay by certified cheque, and whose cheques are returned by their banks, will be subject to the late payment fee if their cheques are not redeemed by the prescribed payment dates.
3. Students who claim that their fees will be paid directly to the University by scholarship award, government department or other outside agency, must produce documentary evidence at the Accounting Office. When this is not done by the prescribed payment dates, late payment fees are applicable.

REFUND OF FEES**WITHDRAWAL**

Undergraduate students who withdraw from the University should notify the Registrar immediately in writing. Similarly, students registered in graduate programmes who wish permission to withdraw must notify their Dean. Otherwise, full fees will be assessed and applications for re-registration may not be accepted until accounts are settled in full.

WITHDRAWALS OR DROPS — UNDERGRADUATES

1. Undergraduate students who register in the first term and who withdraw from the University or drop courses will normally be charged tuition fees in accordance with the following schedule. Tuition fees paid in excess of these amounts will be refunded.

Tuition fees charged in event of withdrawal on or before:

September 20, 1974	— \$10.00 per course (maximum \$50.00)
September 27, 1974	— 40% of first term fees
October 4, 1974	— 60% " " " "
October 11, 1974	— 80% " " " "
January 10, 1975	— 100% " " " "
January 17, 1975	— 100% of first term fees, plus \$10.00 per course (maximum \$50.00)
January 24, 1975	— 100% of first term fees, plus 40% of second term fees.
January 31, 1975	— 100% of first term fees, plus 60% of second term fees
February 7, 1975	— 100% of first term fees, plus 80% of second term fees
after February 7, 1975	— 100% of sessional fees.

2. Undergraduate students who register in the second term and who withdraw from the University or drop courses will normally be charged tuition fees in accordance with the following schedule. Tuition fees paid in excess of these amounts will be refunded.

Tuition fees charged in event of withdrawal on or before:

January 17, 1975	— \$10.00 per course (maximum \$50.00)
January 24, 1975	— 40% of second term fees
January 31, 1975	— 60% " " " "
February 7, 1975	— 80% " " " "
after February 7, 1975	— 100% " " " "

WITHDRAWALS OR DROPS — GRADUATES

Students registered in graduate programmes assessed tuition fees in the Winter Session, who withdraw or drop courses with permission, may be re-assessed tuition fees in accordance with the schedules in 1. and 2. above. Tuition fees paid in excess of these amounts will be refunded.

REFUND OF AMS FEE

Alma Mater Society fees are not subject to adjustment as the result of changes in a student's programme. However, students who withdraw from the University prior to the date shown below may, upon surrendering their A.M.S. membership cards, apply to the Alma Mater Society (not to the University) for refunds of A.M.S. fees paid in the amounts shown:

Withdrawal from the University on or before	Amount of Refund
October 15th	Full A.M.S. fee paid
January 31st	One-half A.M.S. fee paid, except where the student registered in the second term only, in which case the refund shall be the full A.M.S. fee paid.

No full or partial refunds of A.M.S. fees will be made to students who withdraw from the University after January 31st.

SCHOLARSHIPS, FELLOWSHIPS, BURSARIES AND LOANS**PROCEEDS FROM AWARD**

Except where the donor directs otherwise, the proceeds of scholarships, fellowships and bursaries issued by or through the University will be applied against the total sessional fees. If the amount of the award or awards exceeds the unpaid total sessional fees, the excess balance will be paid to the student.

PROCEEDS FROM LOAN FUNDS

Students who require financial assistance (including that granted under the Canada Student Loan Plan) in order to pay sessional fees should apply to the appropriate agency in sufficient time to receive such assistance by the prescribed payment dates. Late payment fee regulations are applicable where this has not been done.

ENDORSEMENT OF AWARD CHEQUES

Certain scholarships and bursaries are paid by cheque drawn in favour of the student. If these cheques are not endorsed and applied against fees by the prescribed payment dates, the regulations covering late payment will apply.

ADVICE ON AWARDS AND FINANCIAL AID

Students seeking advice about scholarships, fellowships, prizes, bursaries and loans should direct their inquiries to the Financial Aid Officer, Registrar's Office.

OTHER FEES AND CHARGES**LABORATORY TICKET**

Students registered in Chemistry courses are required to purchase a laboratory ticket for \$6.00. These tickets should be purchased at the Accounting Office before the commencement of classes.

PARKING AND TRAFFIC FINES

A fine of \$2.00 will be imposed for infraction of University parking and traffic regulations. Fines paid prior to 4:00 p.m. of the second working day following the issue of the Traffic Violation ticket will be reduced in the amount of \$1.00.

Fines will be imposed for infraction of Library regulations in amounts determined by the University Librarian.

BOARD AND LODGING

Rates for board and lodging in the University residences are listed on page 42.

SUPPLEMENTAL EXAMINATIONS

Regular supplemental examination, per paper	\$10.00
Supplemental examination at regular centres, per paper	15.00
Supplemental examination at centres outside of British Columbia	15.00

Supplemental examination fees must be paid when application for examination is made and not later than July 1. In the event that a candidate does not appear for an examination, a refund will be authorized only if, within 10 days after the scheduled examination, the candidate submits to the Registrar an adequate explanation for failure to write the examination. If the refund is made, it will be \$5.00.

Full refunds will be granted only to those students who cancel their applications by July 15.

REVIEW OF GRADE

Review, per course, payable with application	\$ 7.50
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SPECIAL EVALUATION (COURSE CHALLENGE)

Fee for Special Evaluation (course challenge fee) payable at the time of application	\$15.00 per unit
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TRANSCRIPTS

Fee for transcripts of academic record: one copy free of charge at the completion of each year; three copies free of charge following graduation; additional copies supplied at the rate of 2 copies for \$1.00. Free copies may not be accumulated.

PARKING FEES

All motor vehicles, driven or parked on campus between 7:00 a.m. and 6:00 p.m. Monday through Friday and between 7:00 a.m. and 12:00 noon Saturday, by members of Faculty or Staff, Students, and by persons whose normal place of employment is on campus, must be registered with the University.

Parking permits and regulations are obtainable at the Traffic and Security Office.

The following parking fees become effective September 1, 1974.

	<i>Reserved</i>	<i>General</i>
Permits issued prior to December 31	\$15.00	\$5.00
Permits issued between December 31 and April 30	9.00	3.00
Permits issued after April 30	2.00	2.00
Extra permits for additional cars or replacements	1.00	1.00
Parking fees shall cover the period from the date of issue to the following August 31, except for the following special permits:		
Conference (7 days or less)	\$1.00	
Conference (more than 7 days)	2.00	

ACADEMIC SERVICES

LIBRARY

The Library of the University of Victoria contains over 600,000 volumes, over 800,000 items in microform, and more than 15,000 records and tapes. The Curriculum Laboratory has a specialized collection of over 30,000 volumes and other materials to support student teaching requirements in the Faculty of Education. The University Map Collection, in the Cornett Building, houses over 60,000 maps and 50,000 aerial photographs.

With the exception of its Special Collections of rare books and manuscripts, all resources of the McPherson Library are housed in open stacks, to which there is full public access. Special facilities are provided for the use of audio-visual and microform materials. Experienced staff are available and willing to assist students and others to take fullest advantage of the Library's resources, including individual or group instruction in use of a research library.

Regulations regarding loan policies and information concerning hours of service are posted prominently in the Library or may be obtained at the Information or Circulation Desks.

ACADEMIC ADVISING

Each of the undergraduate Faculties provides an academic advising service for students contemplating enrolment in programmes offered at the undergraduate level. The Advising Centre of the Faculty of Arts and Science is located in room 323 in the MacLaurin Building. The Advising Centre of the Faculty of Education is located in room 250, MacLaurin Building. Students in the Faculty of Fine Arts are referred to the Office of the Dean of the Faculty, room 192, MacLaurin Building, for information regarding academic advice.

COUNSELLING CENTRE

A STUDENT SERVICE

The purpose of the Counselling Centre is to help students solve their personal, learning, and vocational problems, and to develop their life skills and sense of competence and self-confidence.

PERSONAL COUNSELLING

Professional counsellors provide an open-minded and confidential hearing on any topic, situation, or problem which a student wishes to discuss. Some of the personal problems which students bring to the Counselling Centre are shyness and lack of self-confidence, difficulty in communicating with and relating to others and especially members of the opposite sex, inability to speak up and express themselves, family conflicts, loneliness, depression, loss of interest and feeling "fed up", wondering what life is all about, questions about aptitudes and intelligence, disappointment with the University and professors, difficulty in making decisions, examination anxiety, and various other worries and anxieties about themselves and life. Students are helped to sort out their problems, to develop self-awareness, to overcome problems by using new coping strategies, and to evolve a personally satisfying philosophy of life.

EDUCATIONAL-VOCATIONAL COUNSELLING

Each individual has a vital interest in getting into an educational programme which provides for maximum achievement and satisfaction, and which opens doors to a variety of vocational and job opportunities. Counsellors utilize interest tests and other assessment techniques to help students understand their strengths and weaknesses for learning and achievement and for different vocations. Educational-vocational counselling today is person-centred. It is designed to help students understand themselves, to develop a perspective on life in the world of work, and to develop learning, adjustment, and exploratory strategies that will enable them to adapt to a rapidly changing world.

COUNSELLING FOR STUDY AND LEARNING PROBLEMS

It is normal for students to have study and learning problems from time to time — problems such as poor retention, inability to concentrate, difficulties with assignments, persistence, organization, expression, reading, writing exams, and so on. If these get too big or continue for too long, the student's educational career can be threatened. The Counselling Centre offers individual counselling and assistance with these problems and invites students to come early rather than late.

SELF-IMPROVEMENT PROGRAMMES

In addition to trouble shooting, problem solving, and other remedial counselling, the Counselling Centre is developing and offering a number of self-improvement programmes or short courses. Students may arrange to take a particular programme by contacting the Counselling Centre.

Reading and Study Skills Course — This six-week non-credit course is offered at the beginning of each term. It is designed to help students develop better techniques for reading, for listening, for organizing and learning material, and for writing essays and exams. Special provision can be made for work on vocabulary improvement, if desired.

The "Transition Course", a concentrated version of the Reading and Study Skills programme, is offered in the two weeks prior to registration in the fall. This programme is designed to help newcomers to the University prepare for the kind of learning and achievement required. In addition to reading and study skills training, it includes practical training on how to use library resources.

Anxiety Management Programme — This is a six-week course in which students are trained to deal with anxiety, stress, and worries so that these cause less discomfort and disruption of studies and their lives. The programme involves training in relaxation, desensitization of anxieties, and mental self-control.

Communication and Personal Relations Programme — This is a group programme in which the focus is on the development of self-awareness, sensitivity to others, communication skills, and emotional expression.

A Programme for Development of Self-Confidence — This is a group programme for students who wish to overcome shyness, learn to express themselves directly and freely, and to develop self-confidence.

ADMISSIONS TESTING

The Counselling Centre is authorized to administer the Scholastic Ability Test and the Achievement Test of the College Entrance Examination Board, the Graduate Record Examination, the Miller Analogies Test, the Law School Admission Test, the Dental College Admission Test, the Medical College Admission Test, the Service for Admission to College and University Test, and the Architectural School Aptitude Test.

The services of the Counselling Centre are available to all students at the University of Victoria. For further information, students should telephone, write, or come to the Counselling Centre, located in the Clearihue Building in the centre of the campus.

SPECIAL COURSE IN ENGLISH AS A SECOND LANGUAGE

The Department of Linguistics offers a non-credit course in English for students whose native language is not English. For details see *Linguistics 099* on page 171 of the Calendar.

CANADA MANPOWER CENTRE

The Canada Manpower Centre on campus is operated by the Federal Department of Manpower and Immigration, in co-operation with the University administration, faculty, and student government, as a service to students.

The Centre itself is located in Building V (behind the SUB), operating Monday to Friday from 8:00 a.m. to 5:00 p.m. In addition, bulletins giving day-to-day information on employment opportunities, both permanent career and part-time, and on career

developments are posted on Employment Notice Boards located in the Elliott (study wing), MacLaurin, Clearihue (second floor, old wing), Cunningham and Cornett Buildings, as well as in the Student Union Building. The various campus news publications are also utilized in advising students of specific events.

The following are the main functions carried out at the Centre:

1. Career Counselling
2. Career Employment Opportunities
3. Teacher Recruitment
4. Part-time School Year Employment Opportunities
5. Christmas Employment Opportunities
6. Summer Employment Opportunities

Graduating students looking for permanent career employment following the current academic year should register in September. On-campus career briefings and employment interviews generally take place from October through March. The procedure for teacher recruitment, usually carried out in March or April, is publicized well in advance at the Centre or on the campus employment notice boards.

Students seeking summer employment particularly in governmental Career-Oriented Programmes are advised to register before the end of December. Employer interviews can be scheduled any time during the period January to April. From May, summer employment opportunities are co-ordinated through a combined Summer Student Employment Office. (Specific details to be announced at a later date.)

Those wishing part-time employment through the school year should register in September, as soon as time tables are firmly established.

Career briefings, as undertaken by related employers or association representatives, are ongoing throughout the academic year, with specific details posted as available.

Individual career counselling services are provided at the Canada Manpower Centre at any time.

UNIVERSITY BOOKSTORE

The Bookstore, located in the Campus Services Building, is owned by the University and, in keeping with University policy, operates on a break-even basis. Savings are passed on to students in the form of textbook discounts.

All required and recommended textbooks are stocked by the Bookstore according to Faculty requests.

In addition, the general booksection contains over 7000 titles in paperback and hardcover editions to provide background reading, reference material for essays and up to date reading of interest. Special orders may be placed for any book currently in print.

Returns are accepted only with a receipt and within 10 days of purchase. At the beginning of the first term the return deadline for textbooks is extended to a maximum of 8 weeks, until October 31.

Between April 15 and September 1, the Bookstore buys used textbooks at half the retail price according to a "want list" prepared from Faculty requisitions.

The Bookstore Policy Advisory Committee, composed of faculty and student members, will be interested in any comments regarding the store.

CAMPUS SHOP

The Campus Shop, located opposite the Bookstore in the Campus Services Building is operated under Bookstore management.

It offers school and art supplies, gym strip, lab coats, crested ware, drugstore and gift items, cosmetics, greeting cards, stationery, games, hosiery, and sporting goods. The Campus shop also provides the services of a Sub Post Office.

COMPUTING FACILITIES AT THE UNIVERSITY OF VICTORIA

The University of Victoria offers an extensive range of computing services for students and faculty members. These services are centred around an IBM System/370 Model 145 computer located in the Clearihue Building. This main computing facility consists of the following equipment —

System/370 Model 145 CPU, 512K main storage

8 Disk drives, 312 thousand characters per second transfer rate, 233 million characters of on-line storage

4 Magnetic tape drives, 80 thousand characters per second transfer rate

Printer, 1100 lines per minute

Card reader, 1000 cards per minute

Card punch, 300 cards per minute

Communications controller, for use with time-sharing terminals

Drum Plotter

Paper tape to Magnetic tape converter

Optical mark scoring reader, for scoring multiple choice examinations

Keypunches, card interpreter, sorter, and reproducing punch machines available for general use.

The high speed terminal facility, designed primarily to offer fast computing service to students, consists of a card reader (1000 cards per minute) and line printer (1100 lines per minute). Adjacent to the high speed terminal facility are large keypunch and study areas available for general student use.

Low speed terminals are available in various locations on campus providing access to services from computers at the University of Victoria, Simon Fraser University, and the University of British Columbia. These terminals are utilized in support of teaching and research activities in Mathematics, Education, Anthropology, Psychology, Sociology, and other departments.

The Computing Centre operates regularly every day of the week in order to enable students, faculty, and staff to have access to these services whenever required. Undergraduate and graduate students use the computer to complete assignments in many different courses. Research users include faculty members from nearly all academic departments at the University. New applications in computing are continuously being developed for teaching and research purposes, and the major objective of the Computing Centre is to adequately support the computing requirements of academic programmes.

In addition, the Computing Centre also supports the information handling requirements of the McPherson Library, Accounting Office, and the Registrar's Office. These and other administrative departments make regular use of Computing Services for Library administration, circulation controls, payroll, budgets, accounts payable, and student records.

For many years the Computing Centre has provided services to the community at large — with particular emphasis on scientific and educational applications. Some of these community users include Forest Research Laboratory, Fisheries Research Board, Canadian Hydrographic Surveys, Frozen Sea Research Group, Pacific Oceanographic Group, Department of the Environment, Dominion Geophysical Observatory, and several senior secondary schools in Victoria and other locations on Vancouver Island where students are undertaking introductory courses in computing.

Students in all disciplines are encouraged to learn and use the computing system within the first or second year of studies, if possible. Credit and non-credit courses are available for students and consultative assistance is available from the staff of the Computing Centre.

Students who are interested in a computing career may be eligible for further training by summer employment or part-time employment in the Computing Centre during the winter session. Some additional opportunities exist from time to time for employment with faculty members as research assistants.

MEDICAL, HOUSING AND FOOD SERVICES

UNIVERSITY ACCOMMODATION

1. The University provides accommodation for 313 students in Craigdarroch Residences and 287 students in Lansdowne Residences.
2. Application forms for residence accommodation can be obtained from Housing Services. Students, both graduate and undergraduate, are requested to submit residence applications as early as possible.
3. Assignment of rooms will commence in June for students who have returned their completed application forms together with an application deposit of \$25.00 which will be credited against second term residence fees. All assignments are conditional upon the admission of the student to the University.
4. Students who have been assigned residence accommodation may occupy their rooms from the afternoon of the day before their registration. Meal passes become effective for dinner on the day before the first day of lectures. During registration week meals may be obtained on campus at current rates.
5. Students who will not arrive to occupy assigned accommodation by the first day of lectures must notify the Housing Services in writing before that date. Assignments may be cancelled where this is not done. Fees will be assessed from the beginning of the term.
6. Fourteen days' notice is required for withdrawal from residence accommodation. No refund will be made to those vacating residence after December 1 of the first term or April 1 of the second term.
7. Rates for the Winter Session 1974-75 are as follows:
 - Double room: First term \$447.00; Second term \$479.00; Total \$926.00.
 - Single room: First term \$486.00; Second term \$521.00; Total \$1,007.00.
 The residence rates as given in the Calendar include a \$2.00 levy for an equipment-replacement fund to be administered by the Residence Councils on the approval of Housing Services.
8. Payments for first and second term are due at the Housing Services not later than August 30, 1974 and January 6, 1975, respectively. Assignments are subject to cancellation where fees are not paid by the due dates. Room keys will be issued only if first term fees have been paid.
9. The application deposit of \$25.00 is forfeited if the student leaves during or at the end of the first term, or if second term residence fees are not paid by the first day of lectures of the second term.

The deposit will be refunded if:

- (a) no accommodation is available;
- (b) the student is not admitted to the University;
- (c) the student cancels his/her assignment within the time stipulated on the room assignment.

OFF-CAMPUS ACCOMMODATION

A file of private homes where students may obtain full board and room, or light housekeeping accommodation, is maintained by Housing Services. While Housing Services makes every effort to maintain an up-to-date file on available homes, there is no guarantee that suitable accommodation will be found by the University for every student who applies. The cost of full board and room varies from about \$110 to \$125 a month. Students should ascertain whether they are being offered two or three meals a day, at the price quoted. For winter accommodation listed with the University, one month's notice in writing on or before the date that rent is due is required of the Landlord or Tenant. If accommodation without meals is offered, both Landlord and Tenant should be aware that the *Landlord and Tenant Act* applies.

FOOD SERVICES

The University operates a comprehensive food service facility in the Commons Building. Two Coffee Gardens on the main floor of the building provide meals and snacks to all members of the University Community. Residents' meals are served in the Cafeteria - Dining Room located on the second floor of the building.

In addition, there is a coffee shop located in the Campus Services Building.

Supplementary food service is provided by banks of vending machines in designated areas in the MacLaurin and Elliott Buildings, and by individual machines located throughout the campus.

UNIVERSITY HEALTH SERVICE

The University Health Service Building is located at the South East corner of Parking Lot No. 5.

A nurse is in attendance from 8:30 a.m. to 5:00 p.m. Monday through Friday. A doctor is in attendance from 10:00 a.m. to 1:30 p.m. and from 3:00 p.m. to 5:00 p.m. Monday through Friday.

In addition to the medical services required in direct support of various university activities and programmes, the University Health Service offers general medical treatment and counselling services for the convenience of students. While these services may be utilized by any student, they are offered primarily for the convenience of those students who do not have a regular physician in the Victoria area. Students are responsible for the cost of any such medical services provided, and students not having valid insurance coverage will be billed directly.

All students are advised to have medical insurance.

British Columbia students are encouraged to enrol in a comprehensive medical plan with such licensed carriers as are approved by the B.C. Medical Commission (B.C. Medical Plan, Medical Services Association, and C.U. & C. Health Services Society). Students must be resident in British Columbia for one year before they are eligible for medical and hospital insurance coverage under approved B.C. Plans.

Students from other Provinces are encouraged to continue their Provincial Medical coverage and are to be prepared to produce a medical insurance identification number.

Students who are not residents of Canada are required to produce evidence of adequate sickness and hospital insurance coverage before registration can be considered complete. Non-resident students can purchase a medical and hospital plan at the time of registration which provides acceptable sickness and hospital insurance with no deductibles. The rates for 1973-74 were \$74 for a single student and \$158 for a married student for twelve month coverage. These rates are subject to yearly change.

Details regarding medical and hospital insurance coverage are available from the University Health Service.

STUDENT AFFAIRS

The officer responsible for Student Affairs (appointment pending) serves as the liaison between the Alma Mater Society and the University.

ALMA MATER SOCIETY

The Alma Mater Society is the legally incorporated society of students of the University of Victoria. It is the recognized means of communication between students and the faculty, the administration, and the outside community. It has traditions going back almost to the founding of Victoria College, and contacts with almost every phase of education in the province both within and outside the University's perimeters. The governing body of the Alma Mater Society is the Representative Assembly, which consists of 46 members elected half in February and half in October of each year. Members of the Assembly proper are elected by year.

The Executive Council is composed of 19 members. This group directs the day-to-day activities of the Society and has 11 administrative officers directly elected by the student body and 8 non-administrative members elected from and by the Representative Assembly. The President presides at all meetings, acts as chief spokesman of the Society, and also serves as ombudsman for the students both individual and corporate of the University. The Vice President, who has no assigned duties, handles many functions, including relations with other student groups and the day care centre. The Treasurer is responsible for all the business matters of the Society, and the Communications Director for minutes, elections, and constitutional changes. The Academic Affairs Chairman is responsible for the constant evaluation of the teaching methods, course content, examination procedures, and all other academic matters within the University, while the Activities Co-ordinator is responsible for the production of all non-athletic recreations offered by the Society, which include dances, rock festivals, kite festivals, and the pubs and cabarets. The Clubs Director acts as the liaison between all clubs on campus and the Society. The Publications Director is responsible for the *Martlet*, the literary magazine, the handbook, the telephone directory, and all other AMS publications. The two Athletics representatives, extramural and intramural, who also sit on the Athletics Directorate, are the students' voice in the University Athletics programme. Finally, the Student Campus Development Co-ordinator is the representative of the Society in the University's decisions concerning buildings, grounds, student housing, and the Student Union Building itself.

All of these officers are willing to help any student with a problem he may have, and all may be contacted at the Student Union Building.

The A.M.S. levies a \$26 activities fee collected by the University for the Society. Of this amount, \$10 goes directly into the Student Union Building Expansion Fund (or Dr. Ewing Memorial Fund), and the remaining \$16 goes towards the maintenance of the programmes of the Society and the Student Union Building. A further \$6 is collected at registration which goes to the Athletics Directorate to support the athletic programmes on campus.

The programmes of the Society can generally be divided into four areas of concern — administrative, academic, service, and community. Under "administration" is placed the day-to-day operation of the Society, the operation of the SUB with its various facilities, the placing of Society representatives on committees both within the University and in the outside world, and the plans for expanded Student Union facilities. Those members of the Assembly concerned with Academics actively investigate such matters as course and professor evaluation, examination procedures, tenure and promotion, university government, student awareness of the many facets of campus life, and co-ordination of both the bookstore and the library. In the services area the Society acts to provide the student with many activities and facilities designed to increase and enhance his overall education, including clubs, publications, activities, athletics, charter travel, nursing and day care facilities, student housing, traffic and parking facilities, etc. Finally, those University students interested in the problems in the community in which they live, can through the Alma Mater Society organize groups concerned about environmental development and pollution, native peoples, poverty and unemployment, accessibility to education, and liaison with other students' groups, with secondary schools, and with various government agencies.

Any student registered at the University of Victoria who pays an Alma Mater Society membership fee is eligible both to vote and to hold office in the Representative Assembly. Many more people, however, are needed for the work of the Society than those elected, and most of the activities are carried out on a volunteer basis. If you have a problem of your own, if you have a problem of concern, if you have an idea, if you have a project — here is the place to come.

The doors are always open.

<i>President</i>	1974-75: Mr. Kirk Patterson
	1973-74: Miss Linda M. Flavelle
	1972-73: Mr. Russell W. R. Freethy
	1971-72: Mr. Ian J. McKinnon
	1970-71: Mr. Robert McDougall
	1969-70: Mr. Norman Wright
	1968-69: Mr. Frank Frketch
	1967-68: Mr. David McLean
	1966-67: Mr. Stephen Bigsby
	1965-66: Mr. Paul Williamson
	1964-65: Mrs. Olivia Barr
	1963-64: Mr. Laurence E. Devlin

DAY CARE CENTRE

The Alma Mater Society operates a co-operative day care centre for UVic students with pre-school age children. Located in a spacious, fully-equipped house on the border of the campus, the centre is licensed to take children between the ages of two and four. Provincial government subsidies pay all or part of the fees (\$125.00/month) of this non-profit centre which is staffed by trained personnel. Registration is limited. Application should be made at the centre at 2246 McCoy Road (477-8646).

GRADUATE STUDENTS' SOCIETY

The Graduate Students' Society was officially recognized by the Senate of the University of Victoria in the fall of 1966, shortly after the establishment of the Faculty of Graduate Studies. Through the Executive Council of the Society, it represents the graduate students to the University and the community.

The eight members of the Executive Council of the Society are elected for one year terms by members of the Society. Four of the Executive members are elected in April and four in October of each year. Any graduate student registered at the University of Victoria, whether part time or full time, is eligible to vote in Society elections, to hold office in the Executive Council, and to represent the Society on University and Senate committees.

The functions of this Society are: (a) to represent the Graduate Student Body in all matters pertaining to the welfare of it as a unit or any of the individuals comprising that Body, (b) to represent the academic, teaching and research assistants in communications with the Faculty and Administration, (c) to act as a liaison between the Graduate Student Body and the Faculty and Administration, (d) to promote intellectual, social and recreational activities among graduate students, (e) to provide a communicative link with the Alma Mater Society of the University and with graduate students from other universities, and (f) to assist incoming graduate students who are experiencing language or accommodation difficulties.

The Society is funded by a \$15.00 fee collected at Registration by the University for the Society. These funds are used to purchase library privileges for graduate students as well as to support the regular functions of the Society.

Graduate students with ideas, projects, financial difficulties or other problems are urged to contact any member of the Executive for assistance. Executive members may be contacted through the Faculty of Graduate Studies or directly through addresses

published in the Graduate Student Newsletter (the Newsletter is mailed directly to each member of the Society).

Further information about the Society and its functions may be found in the *Graduate Students' Guide*, a booklet published by the Society.

<i>President</i>	1974-75 — Mrs. Anne D. Forester
	1973-74 — Mr. James B. London
	1972-73 — Mr. Eric S. Lee
	1971-72 — Mr. John N. Dorner
	1970-71 — Mr. Murray J. King
	1969-70 — Mr. William F. Hyslop
	1968-69 — Mr. Fred P. Dieken
	1967-68 — Mr. Michael G. Roberts
	1966-67 — Mr. Padraig Coughlan

GENERAL CONDUCT

The University authorities do not assume responsibilities which naturally rest with parents. This being so, it is policy to rely on the good sense of students for the preservation of good moral standards and for appropriate modes of behaviour and dress.

STATEMENT ON CHEATING

The standards and reputation of any university are the shared responsibility of its faculty and students. Within the obvious limits implicit in the difference between undergraduate work and specialized research, students at the University of Victoria are therefore expected to observe the same standards of scholarly integrity as their academic and professional counterparts. Clearly, a large part of the work done at the undergraduate level must involve the handling at second hand of ideas and material originally conceived or made accessible by others. Equally clearly, however, there is a difference between the use of the acknowledged restatement of such ideas and material after intelligent and critical assimilation and their unacknowledged, literal reproduction in the guise of new and original work. The latter amounts to cheating; and cheating, whether it takes the specific form of *verbatim* and unacknowledged copying from the writings of others, or whether it appears in other forms, such as the fraudulent manipulation of laboratory processes in order to achieve desired results, the use of commercially prepared essays in place of a student's own work or reference to unauthorized materials in examination circumstances, vitiates the purposes of a university education. While such practices may well stop short of "crime" in the sense that they may escape from the formal rigours of the law, they nevertheless constitute in all cases an offence against intellectual honesty. This renders forfeit not only the integrity of the individual involved but also the reputation of those who condone such lapses. Sanctions will therefore be enforced against cheating, ranging in severity as befits the individual case from simple reimposition of work, through forfeiture of credit for the particular assignment or the particular course involved, to possible expulsion from the University in the most extreme, deliberate or persistent cases. Offenses of this kind may, however, occur in a multitude of different ways and circumstances in different disciplines, and, especially at the undergraduate level, their fair treatment will frequently entail the consideration of contingent factors. These require the flexible exercise of equitable jurisdiction at all levels from the individual instructor upwards. The University as a whole does not therefore propound a single, comprehensive definition of cheating in all its shapes and forms beyond the general statement of position and principle herein advanced; nor does it specify an invariable code of pains and penalties. It does, however, reserve to its academic departments severally the power, under normal circumstances, to inculcate and enforce proper standards of scholarly integrity by whatever internal procedures seem most appropriate to their respective disciplines, saving only that in matters involving student breaches of academic ethics, appeal may be made to the Faculty Council if either party to the case so desires.

AVENUES OF REDRESS

In cases where students have problems involving individual faculty members and wish to seek redress, they may do so, without fear of consequence, through the President's Committee on the Welfare of Students, the Counselling Centre, Department Heads or Chairmen, A.M.S. representatives, other individual faculty members, the Student Faculty Liaison Committee of the Faculty of Education, Deans, the President and Senate.

HAZING

The Board of Governors prohibits hazing.

The attention of students is called to this resolution of the Alma Mater Society:

The Students' Council shares the concern of the University over hazing during Frosh Week. We wish to point out that any form of hazing is forbidden by University regulation. With the advent of residences and the ensuing growth of the University, this form of conduct is becoming archaic and will no longer be tolerated. Any behaviour which exceeds the bounds of good taste and common sense will result in disciplinary action by the Students' Council.

UNAUTHORIZED STUDENT ACTIVITIES

The Board of Governors prohibits any act by a student attending the University, or by anyone, which might cause injury to any person or damage to University property.

Any violation of the British Columbia liquor regulations within the precincts of the University is considered to be a serious offence and any such violation may be reported to the Faculty Council for disciplinary action. Any events organized on the campus at which liquor will be served must receive prior approval from the President's Office.

The Board of Governors considers unlawful entry of buildings on campus a very serious offence, and any such occurrence will be reported to and dealt with by the Board of Governors.

Any student violating the above regulations is liable to expulsion.

SERVICE TRAINING WHILE AT THE UNIVERSITY

MILITARY SERVICE SCHOLARSHIPS

The Department of National Defence sponsors programmes of university education and leadership training for selected young men who have the potential to become officers in the Canadian Armed Forces.

The programmes sponsored are the Regular Officer Training Plan (ROTP), Medical Officer Training Plan (MOTP), Dental Officer Training Plan (DOTP) and Reserve Officer University Training Plan (ROUTP). Training given under these plans is divided into two parts: normal attendance at university throughout the academic year and military training each summer.

REGULAR OFFICER TRAINING PLAN:

This plan combines university subsidization with career training as an officer in the Regular Component of the Canadian Forces. Successful applicants are enrolled in the rank of Officer Cadet. They are required to maintain a good standing both academically and militarily while in the plan. All tuition and other essential fees are paid by the Department of National Defence. In addition the Officer Cadet receives an annual grant of \$125.00 to purchase books and instruments, and a monthly pay of \$255.00 in the first year, \$270.00 in the second year, \$280.00 in the third year, and \$290.00 in the fourth and subsequent years of paid service under the plan. Free medical and dental care is provided. Twenty working days annual leave with full pay

and allowances may be granted each year, either before or after the summer training period. On graduation the Officer Cadet is promoted to the commissioned rank of Lieutenant.

MEDICAL OFFICER TRAINING PLAN:

Sponsorship is provided under the Medical Officer Training Plan during the 2nd, 3rd and 4th year medicine and internship year. It consists of paid tuition, \$125.00 annual book and instrument grant, complete medical and dental coverage, paid holidays and monthly pay of 2nd Lieutenant \$475.00 in academic years and \$750.00 in the internship year. Three years military service in Canadian Armed Forces starting with the rank of Captain is required upon obtaining a licence to practise medicine.

DENTAL OFFICER TRAINING PLAN:

Sponsorship is provided under the Dental Officer Training Plan during the 1st, 2nd, 3rd and 4th year dentistry. Subsidization consists of paid tuition, \$125.00 annual book and instrument grant, complete medical and dental coverage, paid holidays and monthly pay of \$255.00 in 1st year, \$475.00 in 2nd, 3rd and 4th year. Five years military service in the Canadian Armed Forces starting with the rank of Captain is required upon receiving a licence to practise dentistry.

RESERVE OFFICER UNIVERSITY TRAINING PLAN:

This plan provides an opportunity for selected undergraduates to prepare themselves for promotion to commissioned rank in the Reserve Component of the Canadian Forces. They are selected during the first months of the University year by the local Reserve Unit and are enrolled as Officer Cadets in the Primary Reserve. Cadets receive pay for training completed at local Reserve Units during the academic year (up to 15 days) and at training bases during the summer (up to 16 weeks).

Admission requirements:

An applicant must:

- a. be a Canadian citizen;
- b. be single and remain so until commissioned (ROTP only); MOTP, DOTP and ROUTP applicants may be married;
- c. if ROTP, be between the ages of 16 and 21 on the first of January of the year he commences first year studies at University; if MOTP and DOTP, be between the ages of 17 and 38; ROUTP from 17 to 23.

How To Apply:

Interested students are requested to contact one of the following:

for ROTP, MOTP, DOTP

Commanding Officer
Canadian Forces Recruiting Centre
1002 Wharf Street
Victoria, B.C. V8W 1T4
Telephone: 388-3547

or

University Liaison Officer
Canadian Forces Base Esquimalt
FMO
Victoria, B.C. V0S 1B0
Telephone: 388-1141

for ROUDP (Militia)
Commanding Officer
Canadian Militia District Headquarters
Bay St. Armouries
715 Bay Street
Victoria, B.C. V8P 1R1
Telephone: 388-3601

or

ROUDP (Naval Reserve)
Commanding Officer
H.M.C.S. Malahat
FMO
Victoria, B.C. V0S 1B0
Telephone: 388-2241

or

Dr. Michael L. Hadley
Department of Germanic Languages and Literature
University of Victoria

ALUMNI ASSOCIATION

All graduates of the University of Victoria and members of Convocation are automatically members of the Alumni Association.

Persons who attended Victoria College, Victoria Normal School, and persons in the community who have shown an interest in higher education are associate members.

The Association serves the Alumni, the University and the community through its projects. These include a fund drive to support special University projects such as the biology boat and sports events. The Alumni Association has contributed \$5,000 to the Revolving Loan Fund and each year provides four \$500 awards for students. The Alumni Association actively assists the University with special events such as Open House. Each year there are several social events for alumni. During the 1974-75 session, the Alumni Association is engaged in an extensive programme to increase the scope of its activities.

The Alumni Association office is always open to graduates and interested persons. Phone 477-6911, local 588.

<i>President</i>	1974-75	Olivia R. Barr
	1973-74	Olivia R. Barr
	1972-73	John D. Herbert
	1971-72	John D. Herbert
	1970-71	J. David T. Price
	1969-70	J. David T. Price
	1968-69	Donald S. Thomson
	1967-68	Donald S. Thomson
	1966-67	Hamish I. F. Simpson
	1965-66	J. David N. Edgar
	1964-65	J. David N. Edgar
	1963-64	Robert St. G. Gray

FACULTY OF ARTS AND SCIENCE

Jean-Paul Vinay, L. ès L., D.E.S. (*Paris*), M.A. (*London*), Agrégé de l'Université de France, Officier d'Académie, F.R.S.C., Dean of the Faculty.

Alfred Fischer, B.Sc., M.Sc., Ph.D. (*N.Z.*), Associate Dean.

Bryan N. S. Gooch, B.A., M.A. (*Brit. Col.*), Ph.D. (*London*), A.R.C.T., L.C.T.L., F.T.C.L., Assistant Dean.

Esme N. Foord, B.A., M.A. (*Queen's*), Ed.D. (*Tor.*), Director of Academic Advising.

Ellen M. McDougall, B.A. (*Brit. Col.*), Advising Assistant.

Johannes G. Seidel, Senior Academic Assistant, Language Laboratory.

The degrees offered in this Faculty are Bachelor of Arts (B.A.) and Bachelor of Science (B.Sc.). Most departments offer programmes leading to an Honours degree.

ACADEMIC ADVICE

The Academic Advising Centre for the Faculty of Arts and Science is located in the MacLaurin Building in Room 323. Students may obtain information or advice on any programme or courses offered by this Faculty by visiting or writing to the Director of Academic Advising.

Students who are entering the University for the first time are required to complete a Course Planning Form. Students may return these forms in person or by mail and will receive a copy for their personal files after checking by the Advising Centre. Students entering First Year are referred to a list of courses open to First Year students given on page 55.

Students in the Faculty of Arts and Science are welcome to discuss proposed degree programmes at any time. They will be required to complete a Record of Degree Programme during the first term of their Third Year. This form will be checked to ensure that proposed courses will fulfill the requirements for the degree desired. It will be used by the Registrar's Office as a record for graduating purposes and must be kept up-to-date by the student.

SUMMER SESSION AND OTHER CREDIT

SUMMER SESSION

1. Although the degrees in this Faculty are normally granted on completion of the required units in the winter session, credit obtained in summer session may be combined with that obtained in winter session to complete the required number of units.
2. The maximum credit for summer session work in any one calendar year is 6 units.

STUDIES ELSEWHERE

Students who plan to undertake work at other universities must receive prior approval from the Dean or the Registrar if they wish such courses to be credited towards a degree at the University of Victoria. Upon successful completion of such work, the student must request the Registrar of the other university to send an official transcript of record to the Registrar of the University of Victoria. Extramural work done at other universities prior to registration at the University of Victoria may be accepted, if approved by the Faculty, but may not exceed 3 units in respect of any one academic year, or normally, a maximum of 15 units subsequent to Grade 13.

FULL-TIME STUDIES

Although candidates may complete degree requirements by registration in Summer Session and Evening courses, all candidates are urged to register as full-time students for at least one Winter Session, preferably that of the Final Year.

FOURTH YEAR CREDIT FOR MEDICAL STUDIES

A student who has taken his first three years at the University of Victoria may be granted a B.A. or a B.Sc. after at least one year of a medical or dental programme provided that the courses he takes at the medical or dental school, when combined with those taken at the University of Victoria, are deemed equivalent to those which would be required at the University of Victoria either for a general or a major programme. Only courses which do not overlap courses taken at the University of Victoria and which are acceptable to the appropriate department(s) will be accepted for credit. The University shall receive assurance from the other university that a Bachelor of Arts or a Bachelor of Science degree will not be granted for the same work.

A student must apply through the Registrar for assessment by the department or departments concerned.

If a student contemplates transferring to a medical or dental school before graduation, he should consult with the department or departments concerned prior to registering in his third year so that he may choose his courses to meet the requirements of a major or a general programme. Following completion of his third year, he should then confirm in writing to the Registrar his intention to transfer to a medical or dental school and seek credit for work taken there towards his bachelor's degree.

Following completion of the work required for the degree, a departmental recommendation for a bachelor's degree will be made through the Faculty to the Senate.

Students are referred to page 22 for regulations concerning graduation requirements.

GRADUATION STANDING

The graduating average of a student graduating from the Faculty of Arts and Science shall be determined as the weighted average of all 300 and 400 level courses taken for credit in the Faculty except where credit has been obtained for more than 30 units of such courses, in which case the 30 units yielding the highest weighted average will be selected (including, where necessary, the appropriate fraction of a course).

The above does not apply to students who are granted permission to undertake their Fourth Year at another university (see above and **Final Year Studies**, page 22). The classes of degrees to be awarded to such students shall be determined by the Dean of the Faculty in consultation with appropriate departments.

DEGREES

A student may proceed to the B.A. degree in one of three programmes: Honours, Major, and General. The Honours programme requires specialization in a single field in the last two or three years and is intended for students of above average ability. Students who plan to undertake graduate work are strongly advised to follow an Honours programme. The Major programme requires a degree of specialization in one field in the last two years, and may permit the student to proceed to graduate study if sufficiently high standing is obtained, or to professional or business careers. The General programme may also lead to professional careers or graduate studies, depending upon the level of competence demonstrated therein; its distinctive characteristic, however, is the breadth of the education for which it provides. In most cases, by choosing courses carefully, students may postpone until the end of the Second Year the decision as to which programme to undertake. Students must consult departmental requirements and prerequisites. It is recommended that students discuss proposed programmes with the Director of Academic Advising for the Faculty of Arts and Science well in advance of Registration.

Students who may wish to take a professional year in the Faculty of Education after obtaining the B.A. or B.Sc. degree are advised to consult the Advising Centre of the Faculty of Education before they embark on studies in Third Year.

Students who may wish to transfer to another university to undertake further study, are advised to select either an introductory course in English or courses in another language to the 200 level or both amongst their electives.

DEGREE REQUIREMENTS COMMON TO THE B.A. AND B.Sc. PROGRAMMES

Each of the Honours, Major and General programmes requires the completion of a minimum of 60 units of course work, including at least 21 units of courses numbered at the 300 or 400 level.

Each undergraduate student seeking to qualify for a degree in the Faculty of Arts and Science is required: (a) either to pass a qualifying examination in the use of English, or to present a grade of 'A' in English 111 or a passing grade in English 111 and one of English 115, 121, 122, or equivalent; and (b) to include, in the first 15 units presented for the degree not more than 9 units from any single department, and at least 3 units from each of two other departments; and (c) to include, in the next 15 units presented for the degree, not more than 12 units from any single department, and at least 3 units from another department.

HONOURS PROGRAMME

The number of units required for an Honours programme varies between 60 and 69 depending upon the requirements of the department concerned. Departmental requirements are set out on page 58-240 and must be satisfied along with general University regulations on pages 22-30 and the general requirements for completion of the first 30 units as specified above.

Unless special permission is given by the Dean to the contrary, a student must complete the requirements for an Honours programme in four academic years. With the joint approval of the departments concerned, a student may be permitted to fulfill requirements for an Honours programme in two fields; however, such a programme may require an extra year of study.

A student planning to proceed in an Honours programme must consult the Chairman or Head of the Department concerned, or his nominee, as early as possible in his academic career; and in any case must obtain the consent of the Department concerned. This consent will normally be given only if (a) the Department offers an Honours programme; (b) the student has fulfilled the requirements of the first two years, and has at least Second Class standing (a G.P.A. of 3.50) in the work of the Second Year and in the field of specialization; and (c) the student has completed all prerequisite courses. He may not continue in an Honours programme after the Third Year without the consent of the Department concerned. If, in the opinion of the Department, his work at any time is not of Honours standard, a student may be permitted to transfer to the Major or General programme.

A candidate for Honours may be required to present a graduating essay, to pursue a programme of directed studies, or to participate in an Honours seminar. The final date for submitting graduating essays or research reports to the departments in the second term is left to the discretion of the Department concerned.

A candidate for Honours may be required at the end of his final year to take a comprehensive examination — oral, written, or both.

Honours are of two classes: First and Second. A student who passes all his courses but fails to obtain a Second Class standing (a G.P.A. of 3.50) in the work of his Third and Fourth Years may, upon recommendation of the Department, be granted appropriate standing in the Major or General programme.

MAJOR PROGRAMME

The Major programme requires the completion of the first 30 units in conformity with the above regulations and the remaining units in conformity with general University regulations on pages 22-30 and as follows: courses selected to include the major, consisting of 15 units of courses numbered 300 and above, as specified by the department; and at least 15 units of electives which may, when desirable, include not more than 9 units prescribed by the department as corequisites.

Students in the Faculty of Arts and Science may elect to complete the requirements for each of two Major programmes offered in the Faculty. In any case where a double major is selected, however, the student shall be eligible to proceed to no more than one Bachelor's degree.

GENERAL PROGRAMME

The General programme requires completion of the first and second years in conformity with the regulations on page 53 and in conformity with general University regulations given on pages 22-30 and as follows: 9 units taken in courses numbered 300 and above, as may be specified by the department in each of two fields; and 12 units of electives which may, when desirable, include not more than 6 units prescribed by the department as corequisites.

PROGRAMMES LEADING TO THE DEGREE OF BACHELOR OF ARTS*

In order to qualify for a B.A. degree a student must present at least 33 units (of the minimum 60 units required for a degree) of courses from the following departments while meeting the general requirements specified on page 53 and for the degree programme selected: Anthropology, Classics, Creative Writing, Economics, English, French Language and Literature, Geography, Germanic Languages and Literature, Hispanic and Italian Studies, History, Linguistics, Mathematics, Pacific Studies, Philosophy, Political Science, Psychology, Slavonic and Oriental Studies, Sociology.

* Bachelor of Arts programmes in History in Art and in History in the Arts are offered in the Faculty of Fine Arts.

Students may proceed to a B.A. degree in an Honours or a Major programme in the following fields:

Anthropology	Latin (Honours only)
Classical Studies (Major only)	Linguistics
Classics	Mathematics
Creative Writing (Major only)	Pacific Studies (Major only)
Economics	Philosophy
English	Political Science
French	Psychology
Geography	Russian
German	Social Welfare (Major only — see below)
Greek (Honours only)	Sociology
History	Spanish

A student may proceed to a B.A. degree in a General programme in any two of the above fields, or in one of the above and one of the following: Biology, Chemistry, Physics.

PROGRAMMES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

In order to qualify for a B.Sc. degree, a student must present at least 33 units (of the minimum 60 units required for a degree) of courses from the following departments while meeting the general requirements specified on page 53 and for the degree programme selected: Bacteriology and Biochemistry, Biology, Chemistry, Geography, Mathematics, Physics, Psychology.

A student may proceed to a B.Sc. degree in the Honours programme in one of the following fields: Astronomy, Bacteriology, Biochemistry, Biology, Chemistry, Geography, Mathematics, Physics, Psychology.

A student may proceed to a B.Sc. degree with a major in one of the following fields: Astronomy, Biology, Chemistry, Geography, Mathematics, Physics, Psychology.

A student may proceed to a B.Sc. in a General programme in any two of the following fields: Biology, Chemistry, Geography, Mathematics, Physics, Psychology.

INTERDISCIPLINARY PROGRAMMES

BACHELOR OF ARTS WITH A MAJOR IN SOCIAL WELFARE:

The Bachelor of Arts with a Major in Social Welfare requires, in the Third and Fourth Years, a minimum of 33 units. Of these 33 units, 9 must be taken in courses numbered 300 or higher as required for the General Programme specified by the Department concerned in each of two of the following fields: Anthropology, Economics, Political Science, Psychology, Sociology. Either as part of these two areas of concentration or in addition to them, the student must complete Psychology 335 and Sociology 350. In addition, the Major requires Social Work 400, an Introduction to Social Work.

ENVIRONMENTAL STUDIES PROGRAMME:

The Environmental Studies Programme is an interdisciplinary programme designed to provide students with a concentration of courses in the area of environmental topics. Details of the programme are given on pages 127 to 129.

INTERDEPARTMENTAL OFFERINGS:

Senior courses in the humanities and sciences, given on an interdepartmental basis, are available as free electives (see page 169 for Liberal Arts 305; page 228 for Science 300).

PACIFIC STUDIES PROGRAMME:

In February 1969, the Senate approved the introduction of a Pacific Studies programme. Details of the programme are given on pages 191-192.

COURSES OPEN TO FIRST YEAR STUDENTS

For the guidance of students entering First Year, the following is a list of courses open to First Year students. In some cases prerequisites are specified. In others permission of the department is required. Students should consult the appropriate departmental entry elsewhere in this Calendar.

Anthropology 100	Italian 100
Astronomy 120	Japanese 100
Biology 150	Latin 100, 140, 240
Chemistry 120, 124	Linguistics 100
Chinese 100, 301	Mathematics 100, 101, 102, 110, 130, 151, 180
Classical Studies 100, 207	Philosophy 100, 102, 202, 207, 211, 212, 222, 232, 233, 242, 245, 269
Computing Science 170, 171	Physics 101, 103, 121
Economics 100	Political Science 100
English 111, 115, 121, 122	Portuguese 100
French 100, 160, 180	Psychology 100
Geography 101	Russian 100
German 100, 140, 200, 201, 202, 295	Sociology 100
Greek 100	Spanish 100, 240
History 205, 210, 220, 230, 234, 236, 240, 242, 250, 252	

RECOGNIZED COURSES OFFERED BY OTHER FACULTIES

The following First Year courses in the Faculty of Fine Arts are open to students for elective credit in the Faculty of Arts and Science:

Art 100
 History in Art 120
 Music 100, 110, 115
 Theatre 100

Students in other than First Year should note that the following courses in the Faculty of Education and the Faculty of Fine Arts, in addition to those mentioned above, are acceptable for elective credit in the Faculty of Arts and Science:

Education 490

History in Art 221, 230, 315, 325, 331, 340, 351, 353, 360, 380, 390, 420, 430, 441, 450, 481, 490

Music 200, 300, 311, 312, 313, 400

Theatre 310, 311, 312, 390-394 (one only)

COURSES NOT RECOGNIZED IN THE FACULTY OF ARTS AND SCIENCE

Students are permitted to take for credit a total of 6 units of free electives chosen without restriction from any undergraduate courses offered in this University, where the regulations of the Departments offering the courses permit, and prerequisites are met. In exceptional cases, a student in a Major or Honours programme may receive additional units of Arts and Science credit for undergraduate courses not recognized for credit in the Faculty of Arts and Science, provided that prior written permission of the Department in which the student wishes to undertake a Major or Honours has been obtained. In no case, however, may such credit be used to replace that specified for the Major or Honours programme selected, nor may the credit for such courses be later transferred to another Major or Honours programme unless the credit is then accepted by the Department concerned.

COURSES IN ARTS AND SCIENCE

Course	Page
Anthropology	58
Astronomy	209
Bacteriology	64
Biochemistry	65
Biology	67
Chemistry	88
Chinese	233
Classical Studies	95
Commerce	111
Computing Science	187
Creative Writing	103
Economics	106
English	114
French	130
Geography	136
Geology	146
German	148
Greek	99
History	158
History in Art (see Faculty of Fine Arts)	
Italian	156
Japanese	233
Latin	100
Liberal Arts	169
Linguistics	170
Marine Science	84
Mathematics	181
Pacific Studies	192
Philosophy	193
Physics	204
Political Science	212
Portuguese	156
Psychology	220
Russian	230
Science	228
Serbo-Croatian	233
Social Work	235
Sociology	236
Spanish	154
Statistics	189

DEPARTMENT OF ANTHROPOLOGY

Donald H. Mitchell, B.A., B.Com., M.A. (*Brit. Col.*), Ph.D. (*Ore.*), Associate Professor and Acting Chairman of the Department.

Robert F. Gray, M.D. (*Northwestern*), M.A., Ph.D. (*Chicago*), Professor.

William H. Alkire, B.A. (*Wash.*), M.A. (*Hawaii*), Ph.D. (*Ill.*), Associate Professor.

N. Ross Crumrine, B.A. (*Northwestern*), M.A., Ph.D. (*Arizona*), Associate Professor.

Robert B. Lane, A.B., Ph.D. (*Wash.*), Associate Professor.

Leland H. Donald, B.A. (*Emory*), Ph.D. (*Ore.*), Assistant Professor.

Nicolas Rolland, B.Sc., M.A. (*Montreal*), Lecturer.

GENERAL, MAJOR AND HONOURS PROGRAMMES

NOTE: While Anthropology 100 is not required for the General, Major, or Honours Programmes, First Year students who plan to undertake any of these programmes are urged to enrol in the introductory course.

General — *Second Year*: Anthropology 200, 240 and 250; *Third and Fourth Years*: nine additional units of Anthropology chosen from courses numbered 300 and above.

Major — *Second Year*: Anthropology 200, 240 and 250; *Third and Fourth Years*: a total of 15 units in Anthropology consisting of: 300, 350; three units from 320, 322, 323, 324, 325, 326, 328, 329, 334, 339, chosen to include two ethnographic areas; three units from 400, 401, 416, 418, 441; and three units from 305, 306, 310, 335, 345, 346, 405, 406, 407, 419, 449, 451. Students who are allowed to take 390 or 490 should consult the department when planning their programmes.

Honours — *Second Year*: Students who have achieved at least high Second Class standing in Anthropology 200, 240 and 250 may be admitted to the Third Year in the Honours Programme with the permission of the Department; *Third and Fourth Years*: Students will offer at least 33 units of which 21 must be in Anthropology and include 300, 350, and 499; three units chosen from 400 and 416; three units from 320, 322, 323, 324, 325, 326, 328, 329, 334, 339, chosen to include two ethnographic areas; six units chosen to include at least one and a half units from each of the following groups: 305, 306, 310, 335, 401, 405, 406, 407, 412, 418, 419; and 345, 346, 441, 449 and 451. In addition students will be expected to achieve satisfactory standing in courses in Linguistics and in techniques of analysis chosen in consultation with the Department. Students who are allowed to take 390 or 490 should consult the department when planning their programmes.

COURSES

Unless indicated otherwise, courses begin in September and end in April.

Prerequisite for Third and Fourth Year Courses:

Courses numbered 300 and above may be chosen as electives if one of the following conditions is satisfied:

- (a) Completion of Anthropology 100 as a prerequisite and completion of other prerequisites specified for the course selected.
- (b) Completion of Anthropology 200 as a prerequisite or corequisite and completion of other prerequisites or corequisites specified for the course selected.
- (c) The student has at least Third Year standing and the permission of the course Instructor.

NOTE 1: Students qualifying under (b) taking 200 as *corequisite* and students qualifying under (c) may find it necessary to do additional reading.

NOTE 2: Students who have taken Anthropology 100 as a First Year elective may also enrol in Anthropology 200 and/or 240 and/or 250 as electives in their Second or later years.

ANTH 100 (formerly 200). (3) Introduction to Anthropology

Surveys the field and basic concepts of the discipline; origins of man and culture; nature of race; development of culture. The comparative study of cultural institutions such as social structure, language, art, religion. For students who have had no prior course in Anthropology. Anthropology 100 is intended for First Year students and others wishing a general survey of the field. (3-0; 3-0)

ANTH 200 (formerly 201). (3) Social Anthropology

An introduction to the analysis of socio-cultural systems. Substantive materials will be taken from societies representing different levels of complexity and various parts of the world.

Prerequisite: At least Second Year standing or completion of Anth. 100 (3-0; 3-0)

ANTH 240. (1½) Archaeology

An introduction to archaeological research and problems of interpretation; survey and examination of our current understanding of prehistoric cultural development in the world's major regions.

Prerequisite: At least Second Year standing or completion of Anth. 100.

September-December only. (3-0)

ANTH 250. (1½) Physical Anthropology

An introduction to the investigation of biological characteristics of human populations; evolution of human populations.

Prerequisite: At least Second Year standing or completion of Anth. 100.

January-April only. (3-0)

ANTH 300. (3) Comparative Social Organization

Comparative analysis of social structure with emphasis on kinship oriented societies. Consideration of causes and conditions of change in social structures.

Prerequisite: Anthropology 200 or permission of instructor. (3-0; 3-0)

ANTH 305. (1½) Primitive Arts and Crafts

The development and functions of arts and crafts in prehistoric and primitive cultures. Major traditions and their distributions. September-December only. (3-0)

ANTH 306. (1½) Folklore and Mythology

Oral traditions of non-literate peoples. The structure and functions of specific types of materials. The relations of the study of folklore and mythology to other interests in Anthropology. September-December only. (3-0)

ANTH 310 (Sociology 310). (3) Religion

The analysis of religion as a social institution. Topics studied include: problems of definition and methodological approaches; theories about the origin and evolution of religion; anthropological field studies of religion; the validity and ramifications of Weber's thesis on Protestantism and modern Western civilization, including his studies on the world religions; types of religious organization, e.g. sects, churches and denominations; messianic and nativistic movements; religion in contemporary Western societies. (3-0; 3-0)

ANTH 320. (1-3) Ethnology of a Selected Area

Students should consult the Department.

(3-0; 3-0)

ANTH 322. (1½) Ethnology of North America

The major culture areas of aboriginal North America with description and analysis of selected cultures; introduction to problems in the interpretation of North American ethnology. January-April only. (3-0)

ANTH 323 (formerly 422). (1½) Ethnology of the Circum-Polar Region

The cultures of Arctic and Sub-Arctic Eurasia and North America. January-April only. (3-0)

ANTH 324. (1½) Ethnology of Middle America

An integrated description and analysis of the cultural history and present-day economic, social, political, and religious ways of life of selected Indian and mestizo groups of Mexico and Central America; recent changes and modern trends in cultural development. September-December only. (3-0)

ANTH 325. (1½) Ethnology of South America

An integrated description and analysis of the cultural history and present-day economic, social, political, and religious ways of life of selected Indian groups of South America. September-December only. (3-0)

ANTH 326. (1½) Ethnology of Oceania

Peoples and cultures of the Pacific Islands. Their origins and development. January-April only. (3-0)

ANTH 328. (1½) Ethnology of Northeast Asia

An integrated description and analysis of the peoples and cultures of Japan, China, and other areas of Northeast Asia. January-April only. (3-0)

ANTH 329 (formerly 328). (1½) Ethnology of Southeast Asia

An integrated description and analysis of the peoples and cultures of Mainland and Island Southeast Asia. September-December only. (3-0)

ANTH 334. (1½) Ethnology of Sub-Saharan Africa

A survey of the traditional cultures of sub-Saharan Africa; recent changes and problems of modernization. September-December only. (3-0)

ANTH 335 (Sociology 335). (3) Minority and Ethnic Group Relations

Minority and ethnic groups within complex societies with special reference to Canada. (3-0; 3-0)

ANTH 339. (3) Indians of the Pacific Northwest

Native cultures of the Pacific Northwest and anthropological problems presented by this area; a survey of the native peoples of the New World; racial, linguistic and cultural relationships; intensive study of a few representative tribes. (3-0; 3-0)

ANTH 345. (1½) Prehistory of South and East Asia

A survey of the prehistorical development and cultural origins of China, Japan, Mainland and Island Southeast Asia and India.

Text: Various journal articles. There is no general text.

September-December only. (3-0)

ANTH 346. (1½) Prehistory of Oceania

A survey of the prehistorical development and cultural origins of Australia and the Pacific Islands.

Text: Various journal articles. There is no general text. January-April only. (3-0)

ANTH 350 (formerly 340). (3) Evolution and Adaptation in Human Populations

Evolutionary theory and population biology with special reference to the evolution of man; bases of intra-population and inter-population variability; cultural biological interaction in contemporary human populations. (3-0; 3-0)

ANTH 390. (1½) Selected Problems in Anthropology

Presentation of selected problems in Anthropology. Students interested in this course should inquire at Registration when the course is to be offered and what substantive areas are to be studied. Students may enroll in this course in different areas for a maximum of 3 units.

Prerequisites: Permission of instructor. (3-0)

ANTH 400. (3) Anthropological Theory

The first half of the course will present an integrated survey of anthropological theory. The second half will involve student and faculty presentations and discussions of specific theoretical points.

Open to third and fourth year students. (3-0; 3-0)

ANTH 401. (1½) Cultural Ecology

Theories concerning the relationship of man, culture and environment; cultural systems as the means by which human populations adapt to their environments.

January-April only. (3-0)

ANTH 405 (formerly 404, 405). (1½) Economic Anthropology

A comparative analysis of the social context of production, distribution and exchange systems.

January-April only. (3-0)

ANTH 406. (1½) Political Anthropology

Comparative analysis of governing institutions in societies ranging from tribal groups to various types of state organizations. In each type of political system, the modes of allocating decision making powers and administrative authority will be examined.

The format combines lectures in theoretical issues and approaches with seminar discussions. Class members prepare research papers to be read and discussed in class. Course grade is based on this paper and class participation. January-April only. (3-0)

ANTH 407. (1½) Symbolic Anthropology

A comparative study of the function of symbolism in social, ritual, and cognitive systems. An examination of the structural and functional relations of cultural, social, and personality systems from the viewpoint of man as a symboling animal. Selected human groups will be analyzed from this point of view and the relations between symbolic systems and culture change will be discussed.

Prerequisite: In addition to Anthropology 100 or 200, 306 is recommended.

January-April only. (3-0)

ANTH 412. (1½) Magic and Medicine in Tribal Societies

Survey of anthropological theories of magic; consideration of the concept of ethno-medicine and its relation to magic; study of ethnographic literature relating to these topics.

Prerequisites: Anth 200 or permission of instructor. (3-0)

ANTH 416. (3) Introduction to Anthropological Research

Designed to give students competence in research methods suitable for anthropological problems. Emphasis is placed on research design, problems of validation, the nature of explanations, the formal methods of analysis, especially statistics. Course work includes solution of problems in laboratory sessions, examinations, and completion of a research project. (2-2; 2-2)

ANTH 418 [Sociology 418]. (1½) Social Change

General theory of cultural evolution and social change. The impact of complex cultures upon the native peoples of Africa, Asia, the Pacific and the Americas.

September-December only. (3-0)

ANTH 419 [Sociology 419]. (1½) Modernization and Development

Process of modernization. Industrialization and urbanization in the contemporary world.

January-April only. (3-0)

ANTH 441. (1½) Archaeological Method and Theory

Techniques of excavation, description and analysis of archaeological materials, research design and preparation of reports; the historical and anthropological contexts of archaeological research.

Prerequisite: Anthropology 240.

September-December only. (2-2)

ANTH 449. (1½) Archaeology of the Pacific Northwest

Intensive study of problems of interpreting Pacific Northwest archaeological data. Field trips will be scheduled.

January-April only. (2-2)

ANTH 451. (1½) Method and Theory in Physical Anthropology

Advanced topics concerned with theory and method in physical anthropology. The course will include laboratory work in analysis of skeletal populations; anthropometric studies in living populations, and blood group analysis; lectures and seminars on the theory of population divergence; and introduction to quantitative methods in physical anthropology.

Prerequisites: Anthropology 350 or permission of instructor.

September-December only. (2-2)

ANTH 490. (1-3) Directed Studies

Students may register for this course in the Fourth Year of the Major or Honours Programme with permission of the Department and the Instructor. Prerequisites: Fourth Year standing and permission of the Department and the Instructor.

ANTH 499. (3) Honours Seminar and Graduating Essay

GRADUATE COURSES

ANTH 500. (3) Seminar in Anthropological Theory

ANTH 501. (1½) Seminar in Social and Cultural Anthropology

***ANTH 510. (1½) Selected Topics in Social and Cultural Anthropology:**

(Depending on the student's interests and the availability of an instructor, studies may be selected in one or more of the following:)

- 510 (A) Social Organization
- 510 (B) Economic Anthropology
- 510 (C) Political Anthropology
- 510 (D) Anthropology of Religion
- 510 (E) Symbolic Anthropology
- 510 (F) Cultural Ecology
- 510 (G) Culture Change

***ANTH 530. (1½) Ethnology of Selected Areas:**

(Depending on the student's interests and the availability of an instructor, studies may be selected in one or more of the following:)

- 530 (A) North America
- 530 (B) Circum Polar Region
- 530 (C) Middle America
- 530 (D) South America
- 530 (E) Oceania
- 530 (F) Northeast Asia

- 530 (G) Southeast Asia
- 530 (H) Sub-Saharan Africa
- 530 (J) Pacific Northwest

ANTH 540. (1 ½) Seminar in Archaeology and Culture History

***ANTH 542. (1 ½) Archaeology of a Selected Area**

ANTH 550. (1 ½) Seminar in Physical Anthropology

***ANTH 552. (1 ½) Selected Topics in Physical Anthropology**

***ANTH 590. (1 ½-3) Directed Studies**

ANTH 599. (3) Thesis

*Students must consult the Department before enrolling in these courses.

DEPARTMENT OF BACTERIOLOGY AND BIOCHEMISTRY

Alex. J. Wood, B.S.A., M.S.A. (*Brit. Col.*), Ph.D. (*Cornell*), Professor and Head of the Department.

Trevor J. Trust, B.Sc., M.Sc., Ph.D. (*Melbourne*), Associate Professor.

Sheila A. Berry, B.Sc., M.Sc., Ph.D. (*Alta.*), Assistant Professor.

James T. Buckley, B.Sc., Ph.D. (*McGill*), Assistant Professor.

Kirsten A. Skov, B.Sc. (*Queen's*), Ph.D. (*Tor.*), Assistant Professor.

This department offers honours programmes in Bacteriology and Biochemistry. The outlines of the two programmes and the prerequisites and corequisites for the department offerings are for the guidance of honours candidates only. *Students from other departments intending to take courses in Bacteriology and Biochemistry are urged to consult the department at or before the time of registration.*

RECOMMENDED* HONOURS PROGRAMME — BACTERIOLOGY

		First Year	Second Year	Third Year	Fourth Year
Humanities	English	121	122	201	—
	Language 1	100	—	200	—
	Language 2	—	—	—	100
	Mathematics	130	200	—	—
	Mathematics	—	201	—	—
	Mathematics	110	210	—	—
Sciences	Bacteriology	—	200	300	400
	Bacteriology	—	—	—	499
	Bacteriology	480	480	480	480
	Biochemistry	—	—	300	400
	Biochemistry	—	—	—	405
	Biology	—	200	302	303
	Chemistry	124	224	—	344
	Chemistry	—	233	—	—
	Physics	101	—	212	—
Total Units		15	18	18	18

*Departures from this recommended programme may be necessary to accommodate special situations beyond the student's control — the department should be consulted.

COURSES

BACT 200. (3) Introductory Bacteriology

The introductory principles and the language of bacteriology. Techniques for the isolation and cultivation of the bacteria. The relation of bacteria to agriculture, public health and sanitation, fermentation industries and veterinary science.

Text: Pelczar and Reid, *Microbiology*. 3 Ed.

Dr. Wood, Dr. Trust and Dr. Berry.

(2-2; 2-2)

BACT 300. (3) General Bacteriology

The principles and practices of bacteriology. The basic concepts of immunology, serology, physiology, nutrition, genetics and cytology.

Text: Brock, *Biology of Microorganisms*, 2nd Ed.

Dr. Trust and Dr. Berry.

(2-2; 2-2)

BACT 400. (3) Advanced Bacteriology

An in-depth study of bacteriology. Specific concepts in the principal areas.

Text: Selected Readings from the Literature.

Dr. Berry.

(2-2; 2-2)

BACT 470. (1-3) Directed Studies in Bacteriology

Members of the Department.

BACT 480. (0) Seminar

Attendance and participation is required of all students in all years of the Bacteriology Honours programme.

Members of the Department.

(2-0; 2-0)

BACT 499. (2) Undergraduate Thesis

Research under the direction of a staff member. Open to Bacteriology Honours students only.

HONOURS PROGRAMME — BIOCHEMISTRY

		First Year	Second Year	Third Year	Fourth Year
Humanities	English	121	122	201	—
	Language 1	100	—	200	—
	Language 2	—	—	—	100
	Mathematics	130	200	—	—
	Mathematics	—	201	—	—
	Mathematics	110	210	—	—
Sciences	Bacteriology	—	200	300	—
	Biochemistry	—	—	300	400
	Biochemistry	—	—	—	405
	Biochemistry	—	—	—	499
	Biochemistry	480	480	480	480
	Biology	—	200	—	302
	Biology	—	—	—	303
	Chemistry	124	224	333	344
	Chemistry	—	233	—	—
Physics	101	—	212	—	
Total Units		15	18	18	18

*Departures from this recommended programme may be necessary to accommodate special situations beyond the student's control — the department should be consulted.

COURSES

BIOC 300. (3) General Biochemistry

The metabolism of the major nutritional entities: carbohydrates, fats, proteins, vitamins and the macro and micro mineral elements will be considered.

Texts: Bronk, *Chemical Biology*; Fraiss, *Practical Biochemistry*.

Dr. Wood, Dr. Buckley and Dr. Skov.

(2-2; 2-2)

BIOC 400. (3) Biochemistry

A comprehensive study of the chemistry of biological systems. Topics will include the chemistry of constituents of living organisms and of the anabolic and catabolic pathways of metabolism.

Texts: Mahler and Cordes, *Biological Chemistry*, 2nd Ed.; I. H. Segel, *Biochemical Calculations*.

Dr. Buckley and Dr. Skov.

(3-0; 3-0)

BIOC 405. (1) Laboratory Methods in Biochemistry

Corequisite: Chemistry 344.

Dr. Buckley.

(0-2; 0-2)

BIOC 470. (1-3) Directed Studies in Biochemistry

Members of the Department.

BIOC 480. (0) Seminar

Attendance and participation is required of all students in all years of the Biochemistry Honours programme.

Members of the Department.

(2-0; 2-0)

BIOC 499. (2) Undergraduate Thesis

Research under the direction of a staff member. Open to Biochemistry Honours students only.

GRADUATE COURSES

BIOC 500. (3) Advanced Biochemistry

BIOC 510. (3) Advanced Nutritional Biochemistry

BIOC 570. (3) Directed Studies

BIOC 580. (0) Seminar

BIOC 599. (3-6) M.Sc. Thesis

BIOC 600. (3) Topics in Biochemistry

BIOC 699. (3-9) Ph.D. Dissertation

DEPARTMENT OF BIOLOGY

Michael J. Ashwood-Smith, B.Sc., M.Sc. (*Durham*), Ph.D. (*London*), Professor and Chairman of the Department.

Jeffrey A. Cunningham, B.A. (*Queen's*), LL.D. (*U. of Vic.*), Professor Emeritus of Zoology.

F. Thomas Algard, A.B. (*San Jose St.*), Ph.D. (*Stanford*), Professor.

W. Gordon Fields, B.A. (*Brit. Col.*), A.M., Ph.D. (*Stanford*), Professor.

Arthur R. Fontaine, B.Sc. (*McGill*), D.Phil. (*Oxon.*), Professor.

George O. Mackie, B.A., M.A., D.Phil. (*Oxon.*), Professor. (On study leave 1974-75.)

Alan P. Austin, B.Sc., Ph.D. (*Wales*), Associate Professor.

David J. Ballantyne, B.Com. (*Brit. Col.*), M.Sc. (*Wash. St.*), Ph.D. (*Maryland*), Associate Professor.

Marcus A. Bell, B.S.F. (*Brit. Col.*), M.F. (*Yale*), Ph.D. (*Brit. Col.*), R.P.F., Associate Professor and Curator of the Herbarium.

Derek V. Ellis, B.Sc. (*Edin.*), M.Sc., Ph.D. (*McGill*), Associate Professor.

Edwin M. Hagmeier, B.A. (*Queen's*), M.A., Ph.D. (*Brit. Col.*), Associate Professor.

John S. Hayward, B.Sc., Ph.D. (*Brit. Col.*), Associate Professor.

Louis A. Hobson, B.S. (*Humboldt St. Coll.*), M.S., Ph.D. (*Wash.*), Associate Professor.

Jack L. Littlepage, B.A. (*San Diego*), Ph.D. (*Stanford*), Associate Professor.

John E. McInerney, B.Sc. (*Ottawa*), M.Sc., Ph.D. (*Brit. Col.*), Associate Professor.

John N. Owens, B.S. (*Portland St.*), M.S., Ph.D. (*Ore.*), Associate Professor.

Robert G. B. Reid, B.Sc., Ph.D. (*Glasgow*), Associate Professor.

Richard A. Ring, B.Sc., Ph.D. (*Glasgow*), Associate Professor.

E. Derek Styles, B.S.A. (*Brit. Col.*), Ph.D. (*Wis.*), Associate Professor.

Patrick T. Gregory, B.Sc. (*Tor.*), M.Sc., Ph.D. (*Man.*), Assistant Professor.

John W. Paden, B.S. (*Calif.*), M.S., Ph.D. (*Idaho*), Assistant Professor.

Miles Paul, A.B. (*Harv.*), Dip. in Educ. (*Makerere*), Ph.D. (*Stanford*), Assistant Professor.

Hamish D. W. Bridgman, C.D., B.Sc. (*U. of Vic.*), B.A., M.A. (*Cantab.*), Administrative Assistant.

Hans (Jack) F. Dietrich, Senior Scientific Assistant.

John G. S. Trelawny, B.Sc. (*U. of Vic.*), Senior Laboratory Instructor.

GRADUATE PROGRAMMES

For information on programmes leading to the M.Sc. and Ph.D. degrees, see the section of this Calendar dealing with the Faculty of Graduate Studies.

UNDERGRADUATE PROGRAMMES

In all cases, students planning a programme in Biology should consult with the Departmental Office for advice.

Honours and Major programmes in Biology consist of (a) a *Core* of required Biology courses, (b) *Corequisites* in the physical sciences, and (c) additional courses to complete a programme in one of the following *Options*:

- Botany
- Ecology
- Functional Biology
- Marine Biology
- Zoology

The core and science co-requisites for Honours and Major Programmes are outlined on page 69. Recommended programmes for the options may be found on pages 70-72.

B.S. General and B.A. General programmes should be chosen to meet the requirements as set out in the Programme outline on page 69.

NOTES: (These refer to the chart on page 69.)

1) Biology 150 or equivalent is prerequisite to all other courses in the Department unless otherwise stated in course descriptions. The Biology 150 requirement may be considered fulfilled by any one of: Biology 105, Botany 105, Zoology 105, Bacteriology 200, Grade XIII Biology, Botany or Zoology. Students who have passed Biology 11 and 12 may enroll in courses for which Biology 150 is prerequisite while students having credit only in Biology 11 should take Biology 150. Students having only Biology 11 may, under special circumstances, bypass Biology 150 with permission from the Biology Department. Counselling on this matter may be obtained from the Biology Department preceding and during registration.

2) The minimum Physics requirement can be satisfied by completion of both Physics 11 and 12, or by Physics 103. However, honours and major students are advised to take Physics 101 which is prerequisite to more advanced Physics offerings that are important to certain areas in Biology. Physics 101 requires Mathematics 130 as co-requisite.

3) Students considering going on to professional schools, e.g. Medicine, Dentistry, etc. and any other students requiring a second year course in physical chemistry should choose Chemistry 124 as prerequisite for Chemistry 224.

4) Mathematics 130 or equivalent must be taken if Physics 101 is to be taken (see note 2 above) or if a student intends to take advanced courses in Mathematics, Chemistry, or Physics; otherwise Mathematics 102 and 151 are advised.

Students planning to become professional biologists should be prepared to continue their studies into graduate school and, in preparation for this, are advised to take either an Honours or a Major B.Sc. Programme, the Honours Programme being preferable.

Proficiency examinations in one or two modern languages are usually required in graduate studies, and students planning graduate work are advised to elect one or two courses in French, German, Russian or other modern languages on departmental recommendation.

Students are advised of the usefulness of Biometrics in most biological work and of the increasing use of computers in many areas of biology. The Department should be consulted regarding areas for which computer training or extra Mathematics courses are advisable.

The provision exists (see page 52, **Fourth Year Credit for Medical Studies**) for students who have taken their first three years at the University of Victoria to be granted a B.A. or a B.Sc. from the University of Victoria after at least one year of a medical programme. Biology students contemplating entry into medicine after the third year should consult with the Department about their choice of undergraduate courses as soon as possible to ensure that the necessary provisions outlined on page 52 can be met.

BIOLOGY PROGRAMMES

B.Sc. HONOURS	B.Sc. MAJORS	B.Sc. GENERAL	B.A. GENERAL
Core	Core	Biol. 150 (1)	Biol. 150 (1)
Biol. 150 (1)	Biol. 150 (1)	Minimum of 6 units of 200 level Biology courses	Minimum of 6 units of 200 level Biology courses
Biol. 200	Biol. 200	Minimum of 9 units of acceptable Biology courses numbered 300 and above	Minimum of 9 units of acceptable Biology courses numbered 300 and above
Biol. 203/204	Biol. 203/204	Minimum No. of Biol. units	Minimum No. of Biol. units
Biol. 206/207	Biol. 206/207	Co-requisites	Co-requisites
Biol. 300/306	Biol. 300/306	Phys. 101 or 103 (2)	Chem. 120 or 124 (3)
One of Biol. 303, 305, or 331	One of Biol. 303, 305, or 331	Chem. 120 or 124 (3)	Math. 130 or 102/151 or equivalent (4)
Biol. 304	Minimum of 9 Biology units chosen to complete option	3	3
Biol. 460	1	9	18
Biol. 499	3	—	18
Minimum of 12 Biology units chosen to complete option	Minimum No. of Biology units	27	3
Minimum No. of Biology units	Co-requisites	27	3
37	Phys. 101 or 103 (2)	3	3
Co-requisites	Chem. 120 or 124 (3)	3	3
Phys. 101 or 103 (2)	Math. 130 or 102/151 or equivalent (4)	3	3
Chem. 120 or 124 (3)	Chem. 230 or 233	3	3
Math. 130 or 102/151 or equivalent (4)	Electives	21	3
Chem. 230 or 233	TOTAL UNITS	60	60
Electives	12	—	61
TOTAL UNITS	61	—	61

1 See note 1) page 68.
 2 See note 2) page 68.
 3 See note 3) page 68.
 4 See note 4) page 68.

RECOMMENDED PROGRAMMES FOR MAJORS AND HONOURS

The five options listed on the following pages are examples of programmes commonly chosen *but they are not intended to be the only options available*. Programmes designed to fit the specific needs of a student may be made with the approval of the Department as long as they fulfil the requirements listed on page 69.

MAJORS**Botany Option**

First Year		Second Year		Third Year		Fourth Year	
Biol. 150 ¹	3	Biol. 200	3	Biol. 300/306	3	Biol. 318/418	3
Chem. 120 or 124	3	Biol. 203/204	3	Biol. 331	3	Biology Group I Electives	3
Phys. 101 or 103	3	Biol. 206/207	3	Biol. 343 and 344	3		
Math. 102/151 or 130 or equivalent	3	Chem. 230 or 233	3				
Electives ²	3	Electives ²	3	Electives ³	6	Electives ³	9
	15		15		15		15

Biology Group I Electives

Biol. 411 (3), 415 (3), 421 (1½), 422 (1½), 423 (1½), 452 (1½).

Departmental Advisors in Botany: Drs. Austin (Phycology), Ballantyne (Physiology), Bell (Ecology and Taxonomy), Owens (Morphogenesis) and Paden (Mycology).

Ecology Option

First Year		Second Year		Third Year		Fourth Year	
Biol. 150 ¹	3	Biol. 200	3	Biol. 300/306	3	Biol. 427	1½
Chem. 120 or 124	3	Biol. 203/204	3	Biol. 303 or 305 or 331	3	Biol. 440	1½
Phys. 101 or 103	3	Biol. 206/207	3	Biol. 318/418	3	Biology Group II Electives	3
Math. 102/151 or 130 or equivalent	3	Chem. 230 or 233	3				
Electives ²	3	Electives ²	3	Electives ³	6	Electives ³	9
	15		15		15		15

Biology Group II Electives

Biol. 406 (3), 408 (1½), or 316* (1½), 411 (3), 425 (3), 426 (3), 428 (1½), 432 (1½).

* with Departmental permission.

Departmental Advisors in Ecology: Drs. Austin (Marine and Freshwater Plant), Bell (Terrestrial Plant), Ellis (Marine), Hagmeier (Terrestrial and Freshwater).

¹ See Note 1, page 72.

² See Note 2, page 72.

³ See Note 3, page 72.

Functional Biology Option

First Year	Second Year	Third Year	Fourth Year
Biol. 150 ¹ 3	Biol. 200 3	Biol. 300/306 3	Biology Group III Electives 6
Chem. 120 or 124 3	Biol. 203/204 3	Biol. 303* or 305 or 331 3	
Phys. 101 or 103 3	Biol. 206/207 3	Biol. 309 or 343 1½ Biology Group III Electives 1½	
Math. 102/151 or 130 or equivalent 3	Chem. 230 or 233 3		
Electives ² 3	Electives ² 3	Electives ³ 6	Electives ³ 9
15	15	15	15

Biology Group III Electives:

Biol. 302* (3), 309 (1½), 343 (1½), 401 (3), 403 (3), 405 (3), 409 (3), 344 (1½) or 417 (1½), 419 (1½), 424 (1½), 425 (3), 433 (3).

* advised for students considering going on to professional schools, e.g. Medicine, Dentistry, etc.

Departmental Advisors in Functional Biology: Drs. Algard (Growth and Development), Ashwood-Smith (Cell Physiology), Ballantyne (Plant Physiology), Fields (Invertebrate Embryology), Fontaine (Invertebrate Functional Morphology and Ultrastructure), Hayward (Whole Animal Physiology), McInerney (Environmental and Fish Physiology), Owens (Plant Morphogenesis), Paul (Developmental Zoology), Styles (Genetics).

Marine Biology Option

First Year	Second Year	Third Year	Fourth Year
Biol. 150 ¹ 3	Biol. 200 3	Biol. 300/306 3	Biol. 301 or 311 3
Chem. 120 or 124 3	Biol. 203/204 3	Biol. 303 or 305 or 331 3	Biology Group IV Electives 3
Phys. 101 or 103 3	Biol. 206/207 3	Biol. 301 or 311 3	
Math. 102/151 or 130 or equivalent 3	Chem. 230 or 233 3		
Electives ² 3	Electives ² 3	Electives ³ 6	Electives ³ 9
15	15	15	15

Biology Group IV Electives: Biol. 314 (3), 403 (3), 406 (3), 411 (3), 414 (3), 425 (3), 431 (3), 450 (1½), 451 (1½), 452 (1½).

¹ See Note 1, page 72.

² See Note 2, page 72.

³ See Note 3, page 72.

Departmental Advisors in Marine Biology: Drs. Ellis (Benthic Ecology), Fields (Marine Invertebrates: Embryology), Fontaine (Marine Invertebrates: Functional Morphology), Hobson (Oceanography: Phytoplankton), Littlepage (Oceanography: Zooplankton), Mackie (Marine Invertebrates: Behavioural Physiology and Ultrastructure), McInerney (Fish: Physiology and Behaviour), Paul (Marine Embryology), Reid (Marine Invertebrates: Physiology).

Zoology Option

First Year	Second Year	Third Year	Fourth Year
Biol. 150 ¹ 3	Biol. 200 3	Biol. 300/306 3	Biology Group V B Electives 6
Chem. 120 or 124 3	Biol. 203/204 3	Biol. 303* or 305 3	
Phys. 101 or 103 3	Biol. 206/207 3	Biol. 309 1½ Biology Group V Electives 1½	
Math. 102/151 or 130 or equivalent 3	Chem. 230 or 233 3		
Electives ² 3	Electives ² 3	Electives ³ 6	Electives 9
15	15	15	15

¹ See Note 1, below.

² See Note 2, below.

³ See Note 3, below.

Biology Group V Electives: Biol. 301 (3), 302* (3), 312/313 (3), 314 (3), Biol. 403 (3), 412 (1½), 417/419 (3), 425 (3), 427/428 (3), 431 (3), 432 (1½), 437 (1½), 444/445 (3).

* advised for students considering going on to professional schools, e.g. Medicine, Dentistry, etc.

Departmental Advisors in Zoology: Drs. Fields (Invertebrates), Hayward (Mammalian Physiology), Mackie (Invertebrates), McInerney (Ichthyology), Paul (Developmental Zoology), Ring (Entomology).

NOTES: (These refer to Option charts on pages 70-72.)

1) Students who bypassed Biology 150 should take three units selected from Biology 203, 204, 206, and 207 in their first year and Biology 300 and 306 in their second year. They must choose an additional three units of course-work to be taken in their third or fourth year, either from the appropriate Option Electives, or in consultation with the Department.

2) Students planning on continuing to graduate studies should consult the department regarding the advisability of taking one or more modern language courses as electives.

3) Students are urged to consult a departmental advisor regarding the desirable choice of electives for any particular area of interest within this option.

HONOURS:

Honours students should complete the programme of required courses and Biology electives for the appropriate OPTION as described for the Major, and in addition should take Biol. 304 (3) in their third year, Biol. 460 (1) and 499 (3) in their fourth year, and a minimum of 3 additional units of Biology courses chosen in consultation with the Department to a total of not less than 37 units of Biology. Written

application for entry into Honours should be made to the Department not later than March 1 of the Third Year. The applicant should have and should maintain a B+ average in all departmental courses.

A student with a D, E, or F grade in any Biology course is advised not to register for further courses in the Department and may not do so without permission of the Department. Provision exists for writing a supplemental examination to improve a course grade.

COURSES

BIOLOGY

Unless indicated otherwise, courses begin in September and end in April.

NOTE: Biology 150 or equivalent is normally prerequisite to all other courses in the department except where otherwise stated. For information concerning acceptable equivalents see Note 1, page 72.

BIOL 150. (3) Principles of Modern Biology

A broad introduction to biological science emphasizing the principles of cell biology, bioenergetics, physiology, genetics, evolution and ecology. The major plant and animal groups are surveyed, stressing diversity through adaptation. Since many students taking this course do not proceed to other courses in Biology a particular attempt is made to relate biological principles to matters of human concern. The course, therefore, is designed for those with little biological background and those wishing to consolidate their understanding of basic biological science (see Note 1, page 72).

Text: Keeton, *Biological Science*.

Dr. Ring and Members of the Department.

(3-3; 3-3)

BIOL 200 (formerly 402). (3) Cell Biology

Molecular, biophysical and structural aspects of microbial, plant and animal cells. The life histories of cells, including aspects of cell division and embryogenesis. Cellular control and defence mechanisms.

Pre- or co-requisites: Chemistry 230 or 233.

Text: Wolfe, Stephen L., *Biology of the Cell*.

Dr. Ashwood-Smith and Members of the Department.

(3-2; 3-2)

BIOL 203. (1 ½) Algae and Fungi

The biology of the algae and the fungi, including discussions of their origins and evolution, ecology, physiology, and use by man. Laboratories will include examination of the cytology and the morphology of marine and freshwater algae, and isolation, pure culture, and identification of fungi. Not open to students with credit for Botany 205.

Text: To be announced.

Drs. Hobson and Paden.

September-December only. (3-3)

BIOL 204. (1 ½) Metaphyta

Survey of the bryophytes and vascular plants. Cell structure and tissues of vascular plants will be discussed as they relate to plant function. The origin and evolution of plant structures and groups making up the metaphyta will be emphasized. Not open to students with credit for Botany 205.

Text: To be announced.

Dr. Owens.

January-April only. (3-3)

BIOL 206. (1 ½) Invertebrate Zoology

Survey of invertebrate animals, including taxonomy, morphology, life histories and phylogeny. Not open to students with credit for Zoology 301.

Texts: To be announced.

Dr. Fields.

September-December. Also January-April. (3-3)

BIOL 207. (1 ½) Chordate Zoology

A maximum credit of 1½ units can be obtained in this course.

Section 40. In this section the patterns of chordate evolution from the point of view of organism-environment interactions will be emphasized. Changes in the structure and organization of vertebrate systems will be studied in relation to the succession of environments exploited by the chordates. This section is recommended for majors and non-majors except as follows:

Section 65. This section will stress the structure and organization of vertebrate organ systems. Students intending to register later, in Biology 302 (Microanatomy), Biology 303 (Vertebrate Physiology) or who are preparing for future studies in the Health Sciences are advised to register in this section.

Not open to students with credit for Zool. 202.

Text: To be announced.

Dr. McInerney.

September-December. (3-3)

Dr. Hayward.

January-April. (3-3)

BIOL 300. (1 ½) Genetics

A discussion of the gene concept in the light of present knowledge concerning the nature and function of the genetic material. Reproduction and heredity in eucaryotes and procaryotes; classical concept of the gene; genetic control of biochemical reactions, growth and differentiation; genetic variation in individuals and in populations; genetics and evolution; genetics and man. Demonstration sessions will be arranged. Biology Honours and Majors should take this course in conjunction with Biology 306.

Pre- or co-requisite: Biology 200 (Cell Biology).

Texts: Gardner, *Principles of Genetics* (4th Ed).

Dr. Styles.

January-April only. (3-2)

BIOL 301 (formerly ZOOLOGY 301). (3) Invertebrate Functional Morphology

A course for the student who wants an in-depth treatment of invertebrates. Emphasis is placed on concepts and principles of functional morphology; supplementary reading, including recent journals, is encouraged.

Prerequisite: Biology 206. Co-requisite: Biology 303 or 305 (Zoology 303 or 305).

Texts: To be announced.

Dr. Fontaine.

(2-3; 2-3)

BIOL 302 (formerly ZOOLOGY 302). (3) Microanatomy

A course designed to lead to an understanding of the microscopic structure of the cells, tissues, and organs of higher vertebrates. Functions of specialized cells will be discussed and also those changes in structure and function which occur during reproduction and development. Emphasis is placed on the human. Reading is normally limited to suitable textbook material, however, opportunities exist for outside reading. Essays, reports, papers or drawings are not required. Criteria for entry: Third or fourth year honours, majors, and pre-professional students or permission of the instructor.

Pre- or co-requisites: Zoology 202 or Biology 207. Biology 303 (Zoology 303) is desirable.

Texts: Copenhagen, *Bailey's Textbook of Histology*; Patten, *Foundations of Embryology*.

Dr. Algard.

(2-3; 2-3)

BIOL 303 (formerly ZOOLOGY 303). (3) Vertebrate Physiology

Functional processes of whole vertebrate organisms and their major organ systems. Laboratory work concentrates on familiarization with methodology in physiology including instrumental and surgical techniques.

Prerequisites: Biology 200; Biology 207 or Zoology 202; Physics 101 or 103. Chemistry 124 is recommended.

Texts: To be announced.

Dr. Hayward.

(2-3; 2-3)

BIOL 304. (3) Biometrics

Introduction of the student to layout, analysis and interpretation of biological experiments. Introduction to probability and statistics; probability distributions, sampling methods; tests of hypotheses; analysis of variance; linear and curvilinear regression; covariance; non-parametric tests. Weekly laboratory assignments involving problems.

Prerequisites: Mathematics 102/151 or 130 or equivalent.

Texts: To be announced.

Dr. Gregory. (2-3; 2-3)

BIOL 305 (formerly ZOOLOGY 305). (3) Comparative Physiology

A survey of the functioning and evolution of physiological systems in the animal kingdom. Special attention is given to marine invertebrate physiology.

Prerequisite: Biology 200 or equivalent.

Texts: Hoar, *General and Comparative Physiology*.

Dr. Reid. (2-3; 2-3)

BIOL 306. (1½) Ecology

A survey of populations, communities and ecosystems. Biology Honour and Major students should take this course in conjunction with Biology 300.

Texts: To be announced.

Dr. Hagmeier. September-December only. (3-0)

BIOL 309. (1½) Developmental Zoology

Animal development and the mechanisms that control it. Introductory embryology of vertebrates and invertebrates will be coordinated with the analysis of departmental processes. Topics considered will include gametogenesis, fertilization, cleavage, embryogenesis, organogenesis, cellular differentiation, growth, metamorphosis, regeneration and aging.

Prerequisites: Biology 200, 206 and 207 or permission of instructor.

Texts: To be announced.

Dr. Paul. September-December only. (2-3)

BIOL 310. (3) Elements of Oceanography

A non-technical course designed to give the general student a broad background in oceanography. Lectures will cover origin and extent of the oceans, nature of the sea bottom, causes and effects of tides, waves and currents, animal and plant life in the sea, pollution and utilization of the oceans by man. Open to all students in 2nd, 3rd and 4th years.

Biology 150 is not required for this course. Credit for this course will not be counted toward degree programmes in biology. Students planning to proceed to other courses in Oceanography must take Biology 311. Credit will not be given for both Biology 310 and 311.

Texts: To be announced.

Drs. Littlepage and Hobson. (3-0; 3-0)

BIOL 311. (3) Introduction to Oceanography

An introduction to the concepts of physical, chemical, geological and biological oceanography. Designed for biology programmes, this course will provide a broad, comprehensive study of the open ocean. Lectures will be supplemented by laboratory experience in the techniques of modern oceanography. Participation in single day cruises is expected. This course may be taken by students with 3rd year standing or higher.

Prerequisites: Physics 101 or 103; Mathematics 151/102 or 130; Chemistry 120 or 124; Biology 203 or Botany 205; and Biology 206 or Zoology 301. Non-biology science majors wishing this course should consult with the instructor for special permission. Credit will not be given for both Biology 310 and 311.

Texts: To be announced.

Dr. Littlepage. (2-3; 2-3)

BIOL 312 (formerly ZOOL 312). (1 1/2) Introductory Entomology

An introduction to the morphology, physiology, taxonomy and biology of insects, and some consideration of their economic importance. A term essay and a representative collection of 50 species of insects will be required before completion of the course. The specimens should be mounted, identified and presented as a museum collection. Obtain instructions before the summer preceding the course. Field collecting trips will be arranged wherever possible. Students proceeding in Entomology are advised to take this course in conjunction with Biology 313.

Pre- or co-requisites: Biology 206 or Zoology 301.

Text: Borror & Delong, *An Introduction to the Study of Insects*.

Dr. Ring.

September-December only. (2-3)

BIOL 313. (1 1/2) Economic Entomology

A study of man's greatest competitors for food and resources. Insects and arachnids of medical, household, stored products, horticultural, agricultural and forestry importance will be discussed. The course will deal to a great extent with the variety of measures available for pest control.

Prerequisite: Biology 150 or written permission of instructor.

Texts: Assigned readings.

Dr. Ring. (Evenings.)

September-December only. (3-0)

BIOL 314. (3) Natural History of Marine Invertebrates

General problems in ecology, morphology, physiology and life histories of marine invertebrates. Students will become familiar with local fauna through field trips to a variety of marine habitats and through study of living animals in the laboratory. Results of individual projects will be reported in seminars.

Prerequisite: Biology 206 or equivalent. Not open to students with credit in Biology 311 and Biology 406.

Text: To be announced.

Dr. Fields.

(2-3; 2-3)

BIOL 316. (1 1/2) Environmental Issues

Participatory instruction on the interaction between human population, natural resources, and environment. Emphasis will be on problem-defining through a combination of lectures, guest speakers, seminars, debate, panel and small group discussions. The interpretation of facts is emphasized from a variety of viewpoints. Use of modern communications techniques such as film, video and audiotape and various art forms is encouraged for individual presentations. Field trips.

Requirements: Active participation in discussion, one seminar or equivalent presentation or project, and one term essay. Biology 150 is not required. Normally not for credit towards degree programmes in Biology but may be taken as a free elective by biology majors. Open to students from any Department with at least 2 years University or comparable experience.

Text: Ehrlich & Ehrlich, *Population, Resources, Environment*, and assigned readings.

Dr. Bell. (Evenings.)

September-December only. (3-0)

BIOL 318 (formerly BOTA 318). (1 1/2) Vascular Plant Taxonomy

An introduction to plant systematics; principles of classification; nomenclature, identification; seminars on contemporary topics; familiarization with selected plant families of British Columbia; field trips.

NOTE: A well prepared collection of 25 properly identified plants must be submitted for completion of the course. Students are urged to make their collections during the preceding summer. Contact the instructor for details and collecting equipment as early as possible.

Prerequisite: Botany 205 or Biology 204 or written permission of the instructor.

Texts: C. L. Porter, *Taxonomy of Flowering Plants*; Harrington & Durrell, *How to Identify Plants*.

Dr. Bell.

September-December only. (2-3)

BIOL 320. (1 ½) Genetics and Evolution

Concepts of evolution and genetics that are of particular interest to present day society. The origin of life; evolutionary forces; genetic systems; gene environment interactions; the genetics of man; genetics and man. Demonstration sessions will be arranged. Open to non-biology and general programme biology students. Biology honours and majors should register for Biology 300. Credit will not be given for both Biology 300 and Biology 320.

Prerequisites: 2nd, 3rd, or 4th year students with Biology 150 or equivalent, or written permission of instructor.

Texts: To be announced.

Dr. Styles. (Offered at 4:30 p.m.)

September-December only. (3-0)

BIOL 329 (formerly ZOOL 416). (1 ½) Biology of the Vertebrates

A course dealing mainly with the vertebrates of British Columbia and their natural histories. The island and mainland faunas of British Columbia will be considered in relation to the geographical distributions of major North American taxa. Particular reference will be made to dispersal potentials, the geological and climatic history of the area, and the evolutionary history of the various forms and their life history patterns. Laboratories will stress vertebrate systematics and identification of common native species. Field trips will be planned.

Prerequisites: Biology 207 or Zoology 202, or written permission of instructor.

Texts: To be announced.

Dr. Gregory.

January-April only. (2-3)

BIOL 331 (formerly BOTA 331). (3) Introductory Plant Physiology

An introduction to all phases of plant physiology. Growth and flowering, dormancy, mechanisms of ion exchange and salt accumulation, water relations, respiration and photosynthesis; synthesis of carbohydrates, fats and proteins. One research report or one seminar will be given by each student.

Prerequisites: Biology 200, Botany 205, or Biology 203 and 204, or written permission of the instructor.

Texts: Meyer, Anderson, Bohning and Fratianne, *Introduction to Plant Physiology*; Hillman, *Papers in Plant Physiology*.

Dr. Ballantyne.

(2-3; 2-3)

BIOL 334. (1 ½) Plants and Man

An introduction to economically important plants and their products, especially as sources of food, shelter, clothing, drugs and industrial raw materials. Aspects of plant growth and development, physiology, breeding and disease will be discussed for important agricultural and forest plants. Demonstrations will be arranged. Open to all students in 2nd, 3rd, and 4th years. Biology 150 is not required for this course. Normally credit for this course will not be counted toward degree programmes in Biology, but Biology students may take this course as a free elective.

Texts: Anderson, *Plants, Man and Life*; Scientific American Reprints; Baker, *Plants and Civilization*.

Drs. Ballantyne, Owens, Paden, and Styles. (Evening.)

September-December only. (3-0)

BIOL 33B. (1 ½) Applied Plant Physiology

Application of principles of plant physiology to problems in agriculture, forestry and air pollution. Normally, credit for this course will not be counted toward degree programmes in Biology, but Biology students may take this course as a free elective.

Prerequisites: One of Biology 150, 200, 204, or 334 or permission of instructor.

Text: Street and Opik, *The Physiology of Flowering Plants*.

Dr. Ballantyne. (Evening.)

January-April only. (3-0)

BIOL 343 (formerly BIOL 342). (1 1/2) Developmental Plant Anatomy

A study of the origin and development of cells, tissues and organs in vascular plants with special emphasis given to seed plants. The mature structures are discussed as they relate to function. Recent studies of plant ultra-structure are considered in view of development and function. (Not open to students who have credit for Biology 342 (3).

Prerequisites: Biology 204 (Botany 205).

Text: Esau, *Anatomy of Seed Plants*. Alternative Texts: Cutter, *Plant Anatomy Part I and Part II*.

Dr. Owens.

September-December only. (2-3)

BIOL 344 (formerly BIOL 342). (1 1/2) Plant Microtechnique

A study of the techniques used to investigate structural aspects of plant growth, development and function. Techniques covered include paraffin methods, wood sectioning, maceration, clearing, chromosome preparations, photomicrography, histochemistry and autoradiography. (Not open to students who have credit for Biology 342 (3).)

Prerequisites: Biology 204 (Botany 205).

Text: Johansen, *Plant Microtechnique*.

Dr. Owens.

January-April only. (2-3)

BIOL 401. (3) Current Topics in Genetics

Topics discussed will include theories on the origin and evolution of life; population genetics; the genetic control of development and behaviour; and the application of genetic principles in medicine and agriculture. Laboratory requirements may be satisfied by completing *any six* of the lab modules offered in Biology 401 and Biology 405.

Prerequisites: Biology 300 or permission of instructor.

Texts: To be announced.

Dr. Styles.

(2-3; 2-3)

NOTE: Laboratory Modules in

Biology 401 are:

1. Classical genetics
2. Cytogenetics
3. Biochemical genetics
4. Population genetics
5. Plant genetics

Biology 405 are:

1. Cellular kinetics
2. Electron Microscopy
3. Tissue culture
4. Microbial genetics and mutation mechanisms
5. Subcellular organelle and mollecular fractionation techniques (ultra-centrifugation)

Students registering in both Biology 401 and 405 will be expected to complete the above 10 modules plus two additional modules, to be arranged, making a total of 12 modules.

**BIOL 403 (formerly ZOOLOGY 403). (3) Embryology of Marine Invertebrates
(formerly Embryology of Marine Organisms)**

Reproductive biology and development of marine invertebrates; examination of developmental processes at the cellular and molecular level coordinated with descriptive and experimental embryology. In the first term the descriptive and experimental embryology of the marine invertebrate groups will be surveyed. The second term will include a more intensive examination of selected topics through readings in the literature and seminar presentations; topics will depend on individual student interests. The laboratory in the second term will consist of research projects.

Prerequisites: Biology 309 or permission of the instructor.

Credit will not be given for both Biology 403 and Marine Science 411.

Text: To be announced.

Dr. Paul.

(2-3; 2-3)

BIOL 405. (3) Molecular Biology (formerly Cellular Physiology)

Structure and function of cells with particular emphasis in laboratory exercises to molecular biology. Laboratory requirements may be satisfied by completing *any six* of the laboratory modules offered by Biology 405 or Biology 401.

Prerequisites: Biology 200 and permission of instructor.

Texts: Lehninger, *Biochemistry, The Molecular Basis of Cell Structure and Function*; Access to: Watson, *Molecular Biology of the Gene*, 2nd Edition.

Dr. Ashwood-Smith. (2-3; 2-3)

NOTE: Laboratory Modules in

Biology 405 are:

1. Cellular kinetics
2. Electron Microscopy
3. Tissue culture
4. Microbial genetics and mutation mechanisms
5. Subcellular organelle and molecular fractionation techniques (ultra-centrifugation)

Biology 401 are:

1. Classical genetics
2. Cytogenetics
3. Biochemical genetics
4. Population genetics
5. Plant genetics

Students registering in both Biology 401 and 405 will be expected to complete the above 10 modules plus two additional modules, to be arranged, making a total of 12 modules.

BIOL 406. (3) Marine Ecology

A study of ecosystems of the marine environment with emphasis on rocky shores and sediment sea-beds. Consideration of community structure, methods of association analysis, and ecosystem processes such as productivity, biogeochemical cycling and energy flows.

Prerequisites: Biology 306; Zoology 301 or Biology 206. Pre- or co-requisite: Biology 304. Participation in three or four field trips is required. Credit will not be given for both Biology 406 and Marine Science 430.

Text: Original and review literature.

Dr. Ellis. (2-3; 2-3)

BIOL 408. (1 1/2) The Biology of Pollution

An introduction to and development of the biological implications of "pollution" (excessive environmental change), involving definition, recognition, measurement and considerations of abatement. Laboratory time is shared between work in the field or laboratory and lectures by visiting speakers and seminars presented by class members upon independent projects.

Pre- or co-requisites: Botany 205 or Biology 203, Zoology 301 or Biology 206, or written permission of instructor; recommended: Bacteriology 200.

Texts: To be announced.

Dr. Austin. January-April. (2-3)

BIOL 409. (3) Neurobiology

Origin and evolution of excitable systems; structure, differentiation and properties of single nerve cells; principles of neuro-physiology including receptor and effector physiology; organization of behaviour patterns. The approach is comparative with examples from both vertebrates and invertebrates. Labs include histological methods for visualizing nerves, studies on differentiation and regeneration, electrophysiological recordings and experiments in behavioural physiology.

Prerequisites: Biology 303 or 305.

Dr. Mackie. (2-3; 2-3)

BIOL 411 (formerly BOTA 411). (3) Marine and Freshwater Algae (Phycology)

A treatment of the biology of the algae with emphasis upon the ecological, morphological, phylogenetic and economic aspects. Laboratory and field work centres upon live materials collected by class members, in the rich and varied marine and freshwater communities in our region, and involves rudiments of necessary microtechnique,

photomicrography, taxonomic identification, and some experimental ecological and cultural exercises. Emphasis upon either or both marine and freshwater forms is optional in project work. Participation in field excursions to coastal and lake algal habitats is expected.

Prerequisite: Botany 205 or Biology 203.

Text: Round, *The Biology of the Algae*, 2nd edition.

Dr. Austin.

(2-3; 2-3)

BIOL 412 (formerly ZOO 412). (1½) Advanced Entomology

A study of recent advances in the field of entomology with special emphasis on insect physiology. Students will set up and conduct many of their own experiments, and will be expected to familiarize themselves with the recent literature from leading journals of insect physiology. Both written and laboratory term reports will be required.

Prerequisite: Biology 312 (Zoology 312).

[Not open to students who have credit for Biology 412 (3).]

Text: Wigglesworth, *Principles of Insect Physiology* and selected readings.

Dr. Ring.

January-April only. (2-3)

BIOL 414 (formerly ZOO 414). (3) Marine Invertebrate Zoology

Selected topics are dealt with in depth in the lectures. The emphasis is on recent research in areas having unusual zoological interest or economic significance, particularly in the area of behavioural physiology. Practical work stresses individual research projects.

Pre- or co-requisites: Biology 301 or Biology 314.

Texts: For general reference, a good modern textbook of Invertebrate Zoology.

Dr. Mackie.

(2-3; 2-3)

BIOL 415 (formerly BOTA 415). (3) Mycology and Plant Pathology

Morphology and physiology of terrestrial and marine fungi. Basidiomycetes, Chytridiomycetes, Oomycetes, Zygomycetes and Myxomycetes will be treated during the first term. Ascomycetes and imperfect fungi will be treated during the second term, as well as important fungal plant diseases. Specialized isolation, culture, and cytological techniques will be presented. Readings in the current literature will supplement the text. A collection of at least 25 properly annotated genera and a research project are required for completion of the course.

Prerequisite: Botany 205 or Biology 203 or permission of instructor.

Text: Webster: *Introduction to Fungi*; Shaffer: *Keys to Genera of Higher Fungi*.

Dr. Paden.

(2-3; 2-3)

BIOL 417 (formerly ZOO 417). (1½) Zoological Microtechnique

Lectures and laboratories in the principles and practice of zoological microtechnique, including photomicrography, limited treatment of selected histochemical procedures and advanced microscopic techniques. Students will prepare microscope slides and photomicrographs for evaluation.

Prerequisite: Biology 200. Co-requisite: Biology 302 (Zoology 302).

Text: Humason, *Animal Tissue Techniques*, 2nd edition.

Dr. Fontaine.

September-December only. (1-4)

BIOL 418 (formerly BOTA 418). (1½) Plant Ecology

A study of plant communities in the context of ecosystems; vegetation structure, composition, productivity, succession; soils, climate; group projects; seminars; weekend field trip. A one-week field trip to some part of mainland British Columbia or Washington may be held in the last week of April.

Pre- or co-requisites: Biology 318 (Botany 318) and Biology 306, or written permission of instructor.

Texts: Daubenmire, *Plant Communities*; Phillips, *Methods of Vegetation Study*.

Dr. Bell.

January-April only. (2-3)

BIOL 419 (formerly ZOO 419). (1 1/2) Comparative Histology

Lectures and laboratories designed to show the progressive elaboration of cellular and tissue structure in animal phylogeny. Students will prepare their own microscopic material. A research-type project is assigned involving substantial reading of original literature.

Prerequisite: Biology 417 (Zoology 417); Biology 302 (Zoology 302) advised as a pre- or co-requisite.

Texts: To be announced.

Dr. Fontaine.

January-April only. (2-3)

BIOL 421 (formerly BOTA 421). (1 1/2) Plant Morphogenesis

A study of the inception and development of form and structure in plants with emphasis given to the experimental study of meristems, leaves, buds, flowering and differentiation. The laboratory will emphasize tissue culture and histochemical techniques in morphogenetic studies.

Pre- or co-requisites: Biology 343 and 344 (Biology 342, Botany 342); and Biology 331 (Botany 331), or written permission of instructor.

Text: Wardlaw, *Plant Morphogenesis*.

(Not offered 1974-75.)

Dr. Owens.

September-December only. (2-3)

BIOL 422 (formerly BOTA 422). (1 1/2) Physiology of Plant Growth and Development

An advanced study of physiological aspects of plant growth, flower initiation, dormancy and senescence.

Prerequisite: Biology 331 (Botany 331) or written permission of the instructor.

Texts: Steward and Krikorian, *Plants, Chemicals and Growth*; Phillips, *Introduction to Biochemistry and Physiology of Plant Growth Substances*.

(Not offered 1974-75.)

Dr. Ballantyne.

January-April only. (3-0)

BIOL 423 (formerly BOTA 423). (1 1/2) Plant Metabolism

An advanced discussion of (1) biochemical pathways for carbon and nitrogen metabolism and mechanisms for regulation of these pathways, emphasizing laboratory studies with algal cells, and (2) regulation of metabolism by temperature, salinity, drought, and air pollutants, emphasizing laboratory studies with tissue slices, chloroplasts, and mitochondria isolated from vascular plants.

Prerequisite: Biology 331 (Botany 331) or permission of instructor.

Text: Goodwin and Mercer, *Introduction to Plant Biochemistry*.

(Not offered 1974-75.)

Drs. Ballantyne and Hobson.

January-April only. (2-3)

BIOL 424. (1 1/2) Biological Ultrastructure

Cell and tissue structure as revealed by the electron microscope and interpreted in functional terms. Lectures, reading assignments and at least one seminar presentation per student.

Prerequisites: Biology 200; Biology 343 (Botany 342) or Biology 302 (Zoology 302).

Texts: Assigned Readings.

(Not offered 1974-75.)

Dr. Mackie.

January-April only. (3-0)

BIOL 425 (formerly ZOO 425). (3) Environmental Physiology

The adaptations of animals to temperature, light, ionizing radiations, gases, pressure, the chemical environment, etc. The aim of the course is to develop a comprehensive picture of the biokinetic zone and the spectrum of physiological mechanisms by means of which life is possible within this zone. Laboratory work consists of 3 or 4 directed

research projects, reports written in scientific format and seminar presentation of reports.

Pre- or co-requisite: Biology 303 (Zoology 303) or 305.

Texts: To be announced.

Dr. McInerney. (2-3; 2-3)

BIOL 426. (3) Limnology

Biological study of fresh water systems. Lectures, seminars, field and laboratory work.

Prerequisite: Biology 306.

Texts: To be announced.

Dr. Hagmeier. (2-3; 2-3)

BIOL 427. (1 1/2) Population Ecology

The first part of the course will deal with techniques used in assessing quantitative characteristics of animal populations such as spatial distribution, size, survivorship, and recruitment. The second part will be concerned with theories related to growth, fluctuation, and regulation of animal numbers, life history strategies, and population interactions. Considerable reading and active participation in seminars are required. Laboratories will consist of a short series of exercises using relevant quantitative methods plus directed research projects.

Prerequisite: Biology 306 or permission of instructor. Biology 304 recommended.

Texts: To be announced.

Dr. Gregory. September-December only. (2-3)

BIOL 428 (formerly ZOOL 428). (1 1/2) Zoogeography

The patterns of animal distributions with particular emphasis on the mechanisms and causes underlying observed distributions. Those registered will be expected to do considerable outside reading, and to participate in seminars.

Prerequisite: Biology 306.

Texts: To be announced.

Dr. Hagmeier. September-December only. (2-3)

BIOL 429. (1 1/2) Wildlife Management

Biological principles in conservation and management of economically important birds and mammals. Laboratories will stress analysis of food habits, sex and age determination, censuses, trapping and banding, planting food and cover, habitat mapping and specimen preparation.

Prerequisite: Biology 329.

Text: Siles, *Wildlife Management Techniques*. January-April only. (2-3)

BIOL 431 (formerly ZOOL 431). (3) Ichthyology

Selected topics on the morphological, physiological and behavioural adaptations of fishes. Laboratory work consists of three or four directed research projects, reports written in scientific format and seminar presentation of results.

Prerequisites: Zoology 202 or Biology 207. Biology 303 or 305 (Zoology 303 or 305) recommended. Credit will not be given for both Biology 431 and Marine Science 412.

Text: Marshall, *The Life of Fishes*.

Dr. McInerney. (2-3; 2-3)

BIOL 432 (formerly ZOOL 432). (1 1/2) Parasitology

Study of the biology and taxonomy of parasitic organisms.

Prerequisite: Zoology 301 or Biology 206. Not open to students who have credit in Zoology 432 (3).

Texts: To be announced. January-April only. (2-3)

BIOL 433 (formerly ZOO 433). (3) Experimental Morphogenesis

Seminars, directed reading, discussion and lectures in the analysis of embryonic development by experimental methods, including differentiation of cells and tissues and their integration during morphogenesis. Outside reading, collation of relevant literature and synthesis of information for presentation in seminars is mandatory. Pre- or co-requisites: Biology 302 (Zoology 302); Biology 303 or 305 (Zoology 303 or 305). Students should consult with the instructor before registration.

Texts: None.

Dr. Algard.

(1-4; 1-4)

BIOL 437. (1 ½) Protozoology

The protozoa will be studied as organisms, including aspects of their diversity and evolution.

Prerequisites: Biology 206 or 301.

Texts: To be announced.

September-December only. (2-3)

BIOL 440. (1 ½) Quantitative Ecology

The use of simple mathematics and of simulation in ecological work.

Prerequisites: Biology 306. Recommended: Computing Science 170 taken previously or concurrently. The course constitutes a logical continuation of Biology 427 (Population Ecology) though the latter is not a prerequisite.

Texts: To be announced.

Dr. Hagmeier.

January-April only. (2-3)

BIOL 443. (1 ½) Biology of Conifers

A study of the biology of conifers with special emphasis given to the taxonomy, distribution, economic importance, reproduction, growth and development of native species. Certain aspects of tree improvement and genetics of some of the more important species will be considered. Several field trips will be made, some involving collection and identification of specimens.

Prerequisite: Biology 204.

Text: Hosie, *Native Trees of Canada*.

Dr. Owens.

September-December only. (2-3)

BIOL 444. (1 ½) Animal Behaviour I

Study of the range and function of animal behaviour, with an introduction to causative physiological mechanisms and consideration of human analogies. Participation in field work is required. The course is given in association with Psychology 434, Animal Behaviour, and students may not register for both.

Texts: Tinbergen, *The Study of Instinct*.

Dr. Ellis (Evenings).

September-December only. (3-1)

NOTE: Psychology 434 not offered 1974-75.

BIOL 445. (1 ½) Animal Behaviour II

Study of the phylogeny, functions and causation of animal behaviour from both field-descriptive and laboratory-experimental points of view. The course is designed for professional biologists in training, and normally should not be taken before the fourth year in order that corequisite background in physiology, ecology and biometrics can be obtained. The course is given in association with Psychology 434, Animal Behaviour, and students may not register for both.

Prerequisites: Biology 444 and Psychology 100. Students wishing to register in this course should consult with the instructor prior to registration.

Texts: To be announced. Original and review literature.

(Not offered 1974-75.)

Dr. Ellis, Dr. Tolman (Psychology).

January-April only. (2-2)

BIOL 450. (1½) Oceanography — Phytoplankton

Aspects of the physical and chemical properties of seawater; the theory of the distribution of variables, and the water masses and currents of the oceans that influence growth of phytoplankton. The effects of light, temperature, inorganic and organic micronutrients, bacteria, and zooplankton on primary productivity will be discussed as they affect seasonal succession and geographic distributions of phytoplankton. Students will be responsible for one essay based on library research of a problem of current interest in phytoplankton ecology.

Prerequisite: Biology 311 or written permission of instructor.

Text: Parsons and Taka hashi, *Biological Oceanographic Processes*.

Dr. Hobson. September-December only. (2-3)

BIOL 451. (1½) Oceanography — Zooplankton

Ecology and physiology of marine zooplankton. Lectures and seminars dealing with reproduction, vertical distribution and migration, feeding, assimilation and respiration of neritic and oceanic zooplankton. Students will be expected to do considerable outside reading from relevant oceanographic literature and to incorporate this with a field or laboratory research problem. Participation in research cruises is expected.

Prerequisite: Biology 311 or written permission of the instructor. Suggested co-requisite: Biology 450.

Text: Raymont, *Plankton and Productivity in the Ocean*.

Dr. Littlepage. January-April only. (2-3)

BIOL 452. (1½) Algal Nutrition and Metabolism

Lectures and laboratory studies including uptake and metabolism of carbon, nitrogen, phosphorus, silicon, and organic and inorganic micronutrients by algae. Students will be responsible for one essay based on library research of a problem of current interest in algal physiology and biochemistry.

Prerequisites: Biology 203 or Botany 205 and Biology 331 (Botany 331) or written permission of instructor.

(Not offered 1974-75.)

Dr. Hobson. January-April only. (2-3)

BIOL 453. (1½) Stress Physiology of Plants

An advanced study of the physiological responses of plants to temperature extremes, drought, salinity, radiation stress and air pollution.

Prerequisites: Biology 331 or permission of instructor.

(Not offered 1974-75.)

Dr. Ballantyne. January-April only. (3-0)

BIOL 460. (1) Honours Seminar

Required for all Biological Honours students. Participation in Departmental seminars and presentation of thesis results.

BIOL 490. (1-3) Directed Studies in Biology

Students must obtain the written consent of the Department before registering for this course.

BIOL 499. (3) Thesis or Tutorial

MARINE SCIENCE

A number of Marine Science courses are offered at the Bamfield Marine Station in Summer Session only at present. These courses may supplement or substitute for courses listed above in the normal biology programmes. Students should obtain the permission of the Department before taking one of the Marine Science courses.

MRNE 400. (3) Directed Studies

A course of directed studies under the supervision of a member of faculty. The study will involve a research project approved by the supervisor in the field of interest of the student, and will be designed to take maximum advantage of the laboratory and/or field opportunities offered by the Bamfield Marine Station.

Offered in Summer Session only, as announced.

MRNE 401. (3) Special Topics in Marine Biology

This course will be offered, as opportunities arise, by distinguished scientists who are working at the Bamfield Marine Station. It is expected that the course will generally be of a specialized nature and be at a level appropriate to graduate or senior undergraduate students.

Offered in Summer Session only, as announced.

MRNE 402. (1½) Special Topics in Marine Biology

This course will be offered, as opportunities arise, by distinguished scientists who are working at the Bamfield Marine Station and are prepared to offer a course extending over a three-week period. This course will be of a specialized nature.

Offered in Summer Session only, as announced.

MRNE 410. (3) Marine Invertebrate Zoology

A survey of the marine phyla, with emphasis on the benthic fauna in the vicinity of the Bamfield Marine Station. The course includes lectures, laboratory periods, field collection, identification, and observation. Emphasis is placed on the study of living specimens in the laboratory and in the field.

NOTE: Credit will not be given to both Marine Science 410 and Biology 314.

Offered in Summer Session only, as announced.

MRNE 411. (3) Comparative Invertebrate Embryology

A comprehensive study of development of marine invertebrates available at the Bamfield Marine Station, including all major phyla and most of the minor phyla. A total of 25 or 30 lectures, covering gametogenesis, fertilization, larval development and metamorphosis of different groups will be given. Laboratory work will include methods and techniques of obtaining and handling of gametes, preparation and maintenance of larval cultures, and observations up to metamorphosis if possible. Some selected and clearly defined experiments will be performed. Efforts will be made also to study various pelagic larvae collected from the plankton.

It is hoped that such a broad approach, as outlined above, will provide the student with fundamental frameworks and insights for analytical studies on one hand, and for reproductive ecology on the other hand. Credit will not be given for both Marine Science 411 and Biology 403.

Offered in Summer Session only, as announced.

MRNE 412. (3) Biology of Fishes

Classification, physiology, ecology, behaviour and zoogeography of fishes with particular emphasis on those in the marine environment of the British Columbia coast. This course will involve some field projects. Credit will not be given for both Marine Science 412 and Biology 431.

Offered in Summer Session only, as announced.

MRNE 420. (3) Marine Phycology

A survey of the marine algae, with emphasis on the benthic forms in the vicinity of the Bamfield Marine Station. The course includes lectures, laboratory periods, field collection, identification, and observation. Emphasis is placed on the study of living specimens in the laboratory and in the field.

Offered in Summer Session only, as announced.

MRNE 430. (3) Marine Ecology

An analytical approach to biotic associations in the marine environment. Opportunities will be provided for study of the intertidal realm in exposed and protected areas and of beaches and estuaries in the vicinity of the Bamfield Marine Station; plankton

studies and investigations of the subtidal and benthic environments by diving and dredging are envisaged.

NOTE: Credit will not be given for both Marine Science 430 and Biology 406.
Offered in Summer Session only, as announced.

MRNE 435. (3) Introduction to Biological Oceanography

An introduction to the biology of the oceans, with supporting coverage of relevant physics and chemistry. Emphasis will be placed on plankton biology, community structure and life histories, and influencing environmental factors. Collections will be made from sheltered inlets, through Barkley Sound to offshore waters. The course will involve both field and laboratory studies of plankton organisms.

Offered in Summer Session only, as announced.

GRADUATE COURSES

Biology 511 and 527 will be offered every year. Students should consult the Department concerning which other courses will be offered in any particular year. All students are expected to register for Biology 560 (seminar).

Admission to any graduate course requires prior permission of the Instructor.

BIOL 510. (3) Advanced Topics in Ichthyology

Dr. McInerney.

BIOL 511. (3) Marine Science Seminar

Selected topics in marine biology will be dealt with in depth.

Dr. Austin and members of the department.

BIOL 512. (3) Advanced Marine Ecology

Dr. Ellis.

BIOL 513. (3) Topics in Vertebrate Anatomy and Embryology

Dr. Algard.

BIOL 514. (3) Zooplankton Ecology

Dr. Littlepage.

BIOL 515. (3) Physiology of Marine Animals

Dr. Reid.

BIOL 517. (3) Oceanography II

Dr. Littlepage.

BIOL 519. (1-3) Animal Ecology

Dr. Bergerud.

BIOL 520. (3) Advanced Mycology

Dr. Paden.

BIOL 521. (3) Advanced Phycology

Dr. Austin.

BIOL 522. (1-3) Advanced Plant Ecology

Dr. Bell.

BIOL 523. (2) Advanced Plant Physiology

Dr. Ballantyne.

BIOL 524. (1-3) Plant Anatomy and Morphology

Dr. Owens.

BIOL 525. (3) Recent Advances in Insect Physiology

Dr. Ring.

BIOL 526. (1 ½) Topics in Biological Ultrastructure

Dr. Mackie.

BIOL 527. (1-3) Advanced Topics in Cell Biology

Seminars, discussions and laboratory work associated with recent advances in cell biology. Topics will include: quantitative tissue culture; bacterial and mammalian cell mutations; use of isotopes in biology; basic methods of cell separation; subcellular and molecular separations and ultracentrifugation.

Text: Research paper and reviews.

Dr. Ashwood-Smith.

BIOL 528. (1-3) Topics in Advanced Invertebrate Zoology

Members of the Department.

BIOL 529. (1-3) Advanced Parasitology

BIOL 530. (2) Recent Advances in Genetics

Dr. Styles.

BIOL 531. (1 ½) Selected Topics in Vertebrate Physiology

Dr. Hayward.

BIOL 532. (3) Advanced Techniques in Cell Biology

Dr. Ashwood-Smith.

BIOL 533. (3) Advanced Topics in Embryology of Marine Invertebrates

Dr. Paul.

BIOL 534. (1-3) Problems in Environmental Management

Dr. Bell.

BIOL 535. (1-3) Advanced Topics in Zoogeography

Dr. Hagmeier.

BIOL 536. (1-3) Advanced Topics in Ecology

Dr. Hagmeier.

BIOL 550. (1-6) Directed Studies

BIOL 560. (1-3) Seminar

BIOL 599. (credit to be determined) Thesis

BIOL 699. (credit to be determined) Ph.D. Dissertation

DEPARTMENT OF CHEMISTRY

Alexander D. Kirk, B.Sc., Ph.D. (*Edinburgh*), Professor and Chairman of the Department.

Lewis J. Clark, B.A. (*Brit. Col.*), M.Sc. (*Wash.*), Ph.D. (*Ore. St.*), Professor Emeritus.

Alfred Fischer, B.Sc., M.Sc., Ph.D. (*N.Z.*), Professor and Associate Dean of the Faculty of Arts and Science.

D. J. MacLaurin, B.A.Sc. (*Brit. Col.*), M.S., Ph.D. (*Lawrence*), P.Eng., Professor Emeritus.

Robert N. O'Brien, B.A.Sc., M.A.Sc. (*Brit. Col.*), Ph.D. (*Manchester*), Professor.

Stephen A. Ryce, B.A., Ph.D. (*Brit. Col.*), Professor.

Walter J. Balfour, B.Sc. (*Aberdeen*), Ph.D. (*McMaster*), Associate Professor.

Gordon W. Bushnell, M.A., B.Sc. (*Oxon.*), Ph.D. (*West Indies*), Associate Professor.

Keith R. Dixon, B.A. (*Cantab.*), Ph.D. (*Strathclyde*), Associate Professor. (On study leave 1973-74.)

Wilma E. Elias, B.A., M.A. (*Sask.*), Ph.D. (*Brit. Col.*), Associate Professor.

Sidney G. Gibbins, B.S. (*Cal. Inst. Tech.*), Ph.D. (*Wash.*), Associate Professor.

Frank P. Robinson, A.B. (*Fisk*), Ph.D. (*Alta.*), Associate Professor.

Graham R. Branton, B.Sc., Ph.D. (*Southampton*), Assistant Professor.

Thomas W. Dingle, B.Sc., Ph.D. (*Alta.*), Assistant Professor.

Martin B. Hocking, B.Sc. (*Alta.*), Ph.D. (*Southampton*), Assistant Professor.

Reginald H. Mitchell, B.A., M.A., Ph.D. (*Cantab.*), Assistant Professor.

Gerald A. Poulton, B.A., Ph.D. (*Sask.*), Assistant Professor.

Paul R. West, B.Sc., Ph.D. (*McMaster*), Assistant Professor.

Terrance K. Davies, B.Sc. (*U. of Vic.*), Senior Scientific Assistant.

Karel Hartman, L.I.R.I., B.Sc. (*U. of Vic.*), Senior Laboratory Instructor.

John F. Reeves, C.D., Administrative Assistant.

UNDERGRADUATE PROGRAMMES

The Department offers Honours and Major programmes, leading to the B.Sc. degree, which provide opportunity for specialized education in chemistry. The Honours programme requires 34 units of chemistry courses from the total 61 units for the degree. The Major programme requires 24 units of chemistry courses. Each programme requires 6 units in mathematics and 6 units in physics of co-requisite courses.

Students seeking careers as professional chemists or those who wish to continue their studies through graduate school to the M.Sc. and Ph.D. level are advised to take the Honours programme. The Major programme may also provide entry to graduate school and thus to careers for which a Masters or Doctoral degree is required. It is also suitable for students who seek careers in industrial laboratories and in teaching at the secondary level.

The Department also offers a concentration in chemistry as part of the B.Sc. degree and B.A. degree General programmes. A General programme with a concentration in chemistry is suitable for students seeking careers in industry, business, teaching and other occupations. Chemistry courses which may be included in programmes leading to a B.A. or B.Sc. degree in other disciplines are also provided.

GRADUATE PROGRAMMES

Departmental offerings leading to the M.Sc. and Ph.D. degrees are outlined on page 322 of this Calendar.

COURSE REQUIREMENTS OF CHEMISTRY UNDERGRADUATE PROGRAMMES

GENERAL	MAJOR	HONOURS
First Year		
Chem 124 (3)	Chem 124 (3)	Chem 124 (3)
Math 130 (3)	Math 130 (3)	Math 130 (3)
Phys 101 or 121 (3)	Phys 101 or 121 (3)	Phys 101 or 121 (3)
Other courses (6)	Other courses (6)	Other courses (6)
Second Year		
Chem 224 (3)	Chem 224 (3)	Chem 224 (3)
Chem 233 (3)	Chem 233 (3)	Chem 233 (3)
Either Math 231 (3) or Math 230 and 232 (6)	Either Math 231 (3) or Math 230 and 232 (6)	Either Math 231 (3) or Math 230 and 232 (6)
Other courses (3 or 6)	Phys 212 (3) Other courses (0 or 3)	Phys 212 (3) Other courses (0 or 3)
Third and Fourth Years		Third Year
Nine additional units of chemistry in courses numbered above 300 for which the required pre- requisites have been taken. (9)	Chem 314 (3)	Chem 314 (3)
	Chem 326 (3)	Chem 326 (3)
	Chem 333 (3)	Chem 333 (3)
	Chem 344 (3)	Chem 344 (3)
		Chem 399 (1)
		Other courses (3)
		Fourth Year
Nine units in a second area of concentration (9)	Any two of Chem 422, 423, 433, 434, 444, 446 (3)	Chem 422 and 423 (3)
Other courses (12)	Other courses (15)	Chem 433 and 434 (3)
		Chem 444 and 446 (3)
		Chem 499 (3)
		Other courses (3)

NOTES: 1. Courses may be taken in different sequences and in different years than those indicated provided that the co- and prerequisite requirements are satisfied.

2. The general requirements for admission to the Third Year of an Honours Programme are specified on page 53 of this Calendar. Permission of the Department is required for admission into each of the Third and Fourth Years of the Chemistry Honours programme. For this, the Department is to be consulted, by interview or by letter, no later than one month before the last day for submission of applications for admission or re-admission to the University. The minimum requirement for admission to the Fourth Year is a second class average in all the work of the Third Year and also in the required courses of the Third Year Chemistry Honours Programme. Honours students are advised to include an additional mathematics course among their electives. Suitable courses are Computing Science 170, 171, and Mathematics 323, 330.

3. Students considering graduate work in chemistry are advised to acquire a reading knowledge of at least one of French, German or Russian.

4. Students with a D grade in any course in chemistry are advised not to register for a following course in chemistry and may not do so without written permission of the Department. A supplemental examination may be written to improve the course grade (See page 28).

5. Students registering for any chemistry course which includes laboratory work are required to purchase a Chemistry Laboratory Credit Card (\$6.00) immediately following registration. Any unused portion of this credit is refundable. Glasses or face shields must be worn by all students in laboratories. Safety glasses and Chemistry Department laboratory notebooks may be purchased in the University Bookstore. UVic laboratory manuals may be obtained through Chemistry Stores.

COURSES

Unless indicated otherwise, courses begin in September and end in April.

For students whose major field lies outside the physical and biological sciences the chemistry courses which are particularly suitable as electives are Chemistry 120 (General Chemistry) and Chemistry 305 ("Chemistry for Poets"). Chemistry 305 requires no laboratory work. Students should also note the availability of Science 300 (page 228) and Liberal Arts 305 (page 169).

CHEM 120. (3) General Chemistry

Introduction to the modern theory of atomic structure and its relation to chemical bonding, molecules, and states of matter. Basic physical chemistry. Periodic, organic, surface and nuclear chemistry. This course includes a laboratory illustrating the properties of chemical systems.

Credit will not be given for both Chemistry 120 and 124.

Prerequisites: Chemistry 11; Mathematics 12 is also strongly recommended. Students desiring to register in Chemistry 120, but who do not have the chemistry prerequisite, should consult the Department prior to registration. When permission to enter Chemistry 120 is granted, then registration will be in Lecture Session number 1, which has four lectures per week.

Texts: To be announced; *Chemistry 120 Laboratory Manual (1974)*.

Drs. Elias, Gibbins, Hocking, Poulton.

(3-3*; 3-3*)

NOTE: Chemistry 120 provides a comprehensive course in General Chemistry at the First Year University level, and is suitable for all fields and programmes at this University, except those which include either Chemistry 224 or 233. Certain pre-professional programmes require Chemistry 124 (see pages 357-358).

CHEM 124. (3) Introductory Physical and Inorganic Chemistry — Part I

Introduction to the modern theory of atomic structure and its relation to chemical bonding, molecules, states of matter, and nuclear chemistry. Basic physical chemistry including thermochemistry, thermodynamics, chemical kinetics, and equilibrium in chemical systems. This course includes a laboratory illustrating the behaviour of chemical systems and some of the basic techniques associated with quantitative chemical experimentation.

Prerequisites: Mathematics 12 and Chemistry 12 or their equivalents. Students desiring to register in Chemistry 124, but who do not have these prerequisites, should consult the Department prior to registration for permission to register. If permission to enter Chemistry 124 is granted to a student who lacks Chemistry 12, then registration will be in Lecture Section number 1 which has four lectures per week.

Texts: Brescia, Arents, Meislich & Turk, *Fundamentals of Chemistry*; *Chemistry 124 Laboratory Manual (1974)*.

Drs. Branton, Bushnell, Dingle, O'Brien, Ryce.

(3-3; 3-3)

NOTE: Chemistry 124 is the first part of a Chemistry 124-224 sequence and is an essential first course for students planning a programme in chemistry.

CHEM 224. (3) Introductory Physical and Inorganic Chemistry — Part II

Introduction to spectroscopy. Chemistry of the main group elements. Quantitative inorganic analysis. Emphasis will be placed on the application of the principles of physical chemistry introduced in Part I. This course includes experimental laboratory applications of solution equilibria, acid-base and redox theory in chemical analysis.

* Laboratories on alternate weeks.

Prerequisites: Chemistry 124 (or 120 with permission of the Department).

Texts: K. M. Mackay & R. A. Mackay, *Introduction to Modern Inorganic Chemistry*; W. E. Dasent, *Inorganic Energetics*; Brescia, Arents, Meislich & Turk, *Fundamentals of Chemistry*; or an equivalent general chemistry text; *Chemistry 224 Laboratory Manual (1974)*.

Drs. Branton and Dingle.

(3-4; 3-4)

CHEM 230. (3) General Organic Chemistry

Fundamental principles of organic chemistry and descriptive chemistry of the main classes of organic compounds with special emphasis on the structure and reactions of biologically important compounds. This course includes a laboratory illustrating the basic operations and representative reactions and preparations of organic chemistry.

This course is designed for students preparing to enter professional schools such as Medicine, Pharmacy, Dentistry, Forestry, and Nursing (see page 357). Credit will not be given for both Chemistry 120 and 233.

Prerequisites: Chemistry 120 or 124.

Texts: Holum, *Introduction to Organic and Biological Chemistry*; Roberts, Gilbert, Rodewald & Wingrove, *An Introduction to Modern Experimental Organic Chemistry*.

Drs. Poulton, Robinson and West.

(3-3; 3-3)

CHEM 233. (3) Organic Chemistry — Part I

An introduction to theoretical, physical and descriptive organic chemistry as exemplified by a study of the properties of aliphatic, alicyclic and simple aromatic compounds. Introductory spectroscopy. This course includes a laboratory illustrating the basic operations and representative reactions and preparations of organic chemistry.

This course is designed for students planning to take the Chemistry 233-333 sequence. Students who do not plan to take Chemistry 333 are advised to take Chemistry 230. Credit will not be given for both Chem 20 and 233.

Prerequisites: Chemistry 124 or 120.

Texts: Morrison and Boyd, *Organic Chemistry*; Roberts, Gilbert, Rodewald and Wingrove, *An Introduction to Modern Experimental Organic Chemistry*.

Drs. Fischer and Mitchell.

(3-3; 3-3)

CHEM 301. (3) Industrial Processes and the Chemistry of Pollution

Chemical principles used in the mining and smelting, heavy chemical, and petroleum refining industries and in the manufacture of pulp and paper, petrochemicals, soap and detergents, and polymers. Problems and methods for waste control, by-product utilization, and waste disposal into soil, water or air. The course is intended for students who wish to become familiar with important industrial processes and with the chemical aspects of environmental quality.

Prerequisite: Chemistry 120 or 124.

Text: R. N. Shreve, *Chemical Process Industries*.

Dr. Hocking.

(3-0; 3-0)

CHEM 305 (formerly 400). (3) Chemistry and the Sciences

A lecture course (with no laboratory) in which the nature and behaviour of matter is examined from the experimental, historical and philosophical backgrounds of chemistry. This course provides an opportunity for students in all areas, including those outside the physical sciences, to broaden their cultural background by including a suitable consideration of a science which plays an important role in modern society.

This senior level course involves independent reading, use of library resources, the preparation of essays and presentation of seminars. It is suited to students acquainted with study at the university level and is complete in itself.

Prerequisites: Successful completion of 15 units of study at the University level or permission of the department. Credit will not be given for both Chemistry 305 and 120 or 124.

Text: Assigned reading.

Dr. Elias.

(3-0; 3-0)

CHEM 310. (1½) Chemical Instrumentation for Environmental Sciences

This course is intended for students in sciences other than chemistry who have a need to make use of chemical instrumentation. It will present the principles of modern instrumental techniques and illustrate their applications to the study of environmental problems, particularly in the monitoring and control of chemical species in the biosphere. Techniques to be studied will include chromatography, spectrophotometry, mass spectroscopy and radiochemical, electrochemical and thermogravimetric analysis. Credit will not be given for both Chemistry 310 and 314. Chemistry 310 will not be open for credit for a Major or Honours in Chemistry.

Prerequisite: Any 200 level course in chemistry.

Text: To be announced.

Dr. Ryce.

(3-3)

CHEM 314. (3) Instrumental Analysis

Theory and applications of chemical instrumentation including chromatography, spectroscopy, mass spectroscopy, radiochemical-, electrochemical- and diffraction methods.

Prerequisite: Chemistry 224 or at least a grade of B minus in Chemistry 230 or 233, and permission of the Department.

Texts: Skoog and West, *Principles of Instrumental Analysis*; *Chemistry 314 Laboratory Manual (1974)*.

Dr. Kirk.

(2-4; 2-4)

CHEM 326. (3) Inorganic Chemistry

Theories of chemical bonding. Applications of molecular orbital and ligand field methods to coordination compounds. Introductory coordination chemistry. The chemistry of the transition elements.

Prerequisites: Chemistry 224, Physics 212, Mathematics 231 or 230 and 232.

Texts: Cotton and Wilkinson, *Advanced Inorganic Chemistry*; Coulson, *Valence; Semi Micro Qualitative Inorganic Analysis: Advanced Scheme*; *Chemistry 326 Laboratory Manual (1974)*.

Dr. Gibbins.

(3-3; 3-3)

CHEM 333. (3) Organic Chemistry — Part II

Aromatic chemistry, polyfunctional organic compounds, introductory heterocyclic chemistry, natural products. Reaction mechanisms and spectroscopic properties of each class of compounds studied are included. Not open to students who have credit in Chemistry 331 and 334.

Prerequisites: Chemistry 233 (or 230 with permission of the Department).

Texts: Morrison and Boyd, *Organic Chemistry*; Pasto and Johnson, *Organic Structure Determination*; *Chemistry 333 Laboratory Manual (1974)*.

Dr. Robinson.

(3-3; 3-3)

CHEM 344. (3) Physical Chemistry

Kinetic theory of gases, introductory quantum mechanics, thermodynamics, chemical kinetics, phase equilibria, solutions, and electrochemistry.

Prerequisites: Chemistry 224, Physics 212, Mathematics 231 or 230 and 232.

Texts: Barrow, *Physical Chemistry (3rd ed.)*; Crockford and Nowell, *Laboratory Manual of Physical Chemistry*.

Dr. Balfour.

(3-3; 3-3)

CHEM 399. (1) Research Participation and Seminar

Introduction to departmental research. Seminar report. For Chemistry Honours students only.

Dr. O'Brien and members of the Department.

(0-0-2; 0-0-2)

CHEM 422. (1 ½) Structural and Theoretical Inorganic Chemistry

A general survey of the chemistry of the solid state. Application of ligand field theory to the spectroscopy and magnetic properties of coordination compounds. In 1974-75 emphasis will be placed on the former topic. Not open to students who have credit for Chemistry 424.

Prerequisite: Chemistry 326.

Texts: Cotton and Wilkinson, *Advanced Inorganic Chemistry; Chemistry 422 Laboratory Manual (1974)*.

Dr. Bushnell.

January-April only. (3-3)

CHEM 423. (1 ½) Complex Inorganic Compounds and Organometallic Chemistry

The chemistry of transition metal carbonyls and related complexes. The chemistry of compounds containing organic groups directly bonded to metals or metalloids. Hydrides, clusters and electron deficient bonding. Not open to students who have credit for Chemistry 424.

Prerequisite: Chemistry 326.

Texts: Coates, Green, Powell and Wade, *Principles of Organometallic Chemistry*; Cotton and Wilkinson, *Advanced Inorganic Chemistry; Chemistry 423 Laboratory Manual (1974)*.

September-December only. (3-3)

CHEM 433. (1 ½) Organic Structure Determination. The Chemistry of Natural Products

Elucidation of the structures of organic compounds from spectral information. The chemistry of several classes of natural products, including examples demonstrating structural elucidation, synthesis, and biogenesis. Not open to students who have credit for Chemistry 435.

Prerequisite: Chemistry 333.

Texts: Williams and Fleming, *Spectroscopic Methods in Organic Chemistry, 2nd ed.*; Hendrickson, *The Molecules of Nature; Chemistry 433 Laboratory Manual (1974)*.

Dr. Poulton.

September-December only. (3-3)

CHEM 434. (1 ½) Physical Organic Chemistry

Mechanisms of organic reactions. Reactive intermediates. Structural and solvent effects on reactivity. Not open to students who have credit for Chemistry 435.

Prerequisite: Chemistry 333.

Texts: Gilliom, *Introduction to Physical Organic Chemistry; Chemistry 434 Laboratory Manual (1974)*.

Dr. West.

January-April only. (3-3)

CHEM 444. (1 ½) Chemical Kinetics and Surface Chemistry

Mathematical treatment of chemical processes; theories of reaction and their application to solution and gas phase reactions. Theory of electrolyte solutions, electrode kinetics. Thermodynamics and phenomenology of surfaces, heterogeneous catalysis. Colloidal systems. Not open to students who have credit in Chemistry 445.

Prerequisite: Chemistry 344.

Text: *Chemistry 444 Laboratory Manual (1974)*.

Dr. O'Brien.

January-April only. (3-3)

CHEM 446. (1 ½) Quantum Chemistry

The basic principles of quantum mechanics and their application to simple physical models and to chemical systems, including the use of semi-empirical methods. Molecular spectroscopy and symmetry. Not open to students who have credit in Chemistry 445.

Prerequisites: Chemistry 326 and 344; Computing Science 170 or Mathematics 232 are strongly recommended.

Texts: Hanna, *Quantum Mechanics in Chemistry; Chemistry 446 Laboratory Manual (1974)*.

Dr. Balfour.

September-December only. (3-3)

CHEM 490. (1-3) Directed Studies

CHEM 499. (3) Thesis

Experimental research under the direction of faculty. For Chemistry Honours students only.

Dr. Kirk and members of the Department.

(0-6; 0-6)

GRADUATE COURSES

Students should consult the Department to determine the graduate courses offered in any particular year.

CHEM 509. (1) Seminar

CHEM 522. (1 ½-3) Current Topics in Inorganic Chemistry

CHEM 523. (3) Organometallic Chemistry

CHEM 525. (3) Theoretical Inorganic Chemistry

CHEM 526. (1 ½-3) Topics in Advanced Inorganic Chemistry

CHEM 533. (3) Organic Synthesis

CHEM 536. (3) Carbohydrate Chemistry

CHEM 538. (3) Biogenesis of Natural Products

CHEM 545. (1 ½) Reaction Kinetics and Reaction Rate Theory

CHEM 546. (1 ½) Spectroscopy and the Chemistry of Excited States

CHEM 550. (1 ½) Elementary Applications of Group Theory

CHEM 554. (1 ½) Applied Quantum Mechanics

CHEM 555. (1 ½) Statistical Mechanics

CHEM 556. (1 ½-3) Topics in Advanced Physical Chemistry

CHEM 565. (3) Theory and Application of Nuclear Magnetic Resonance Spectroscopy

CHEM 566. (3) Chemical Crystallography

CHEM 577. (3) Nuclear and Radio Chemistry

CHEM 590. (1-3) Directed Studies

CHEM 599. M.Sc. Thesis (Credit to be determined but normally 5 units in this Department)

CHEM 630. (1 ½-3) Current Topics in Organic Chemistry

CHEM 633. (1 ½-3) Topics in Advanced Organic Chemistry

CHEM 634. (3) Advanced Physical Organic Chemistry

CHEM 636. (3) Chemistry of Heterocyclic Compounds

CHEM 638. (3) Chemistry of Natural Products

CHEM 644. (1 ½-3) Current Topics in Physical Chemistry

CHEM 645. (1 ½) Advanced Electrochemistry

CHEM 699. Ph.D. Dissertation (Credit to be determined.)

DEPARTMENT OF CLASSICS

David Campbell, M.A. (*Glasgow*), M.A. (*Oxon.*), Professor and Chairman of the Department.

Herbert H. Huxley, M.A. (*Cantab.*), M.A. (*Dublin*), F.I.A.L., Professor.

Geoffrey J. D. Archbold, B.A. (*Brit. Col.*), M.A. (*Cincinnati*), Associate Professor.

Peter L. Smith, B.A. (*Brit. Col.*), M.A., Ph.D. (*Yale*), Associate Professor.

Gordon S. Shrimpton, B.A., M.A. (*Brit. Col.*), Ph.D. (*Stanford*), Assistant Professor.

John G. Fitch, B.A., M.A., (*Cantab.*), Lecturer.

UNDERGRADUATE PROGRAMMES

A student may take a *General Programme in Classics*, which does not necessarily involve language study; a *Major in Classics or in Classical Studies*, with variable emphasis on Greek, Latin, and Classical studies; an *Honours Programme in either Latin or Greek*; or an *Honours Programme in Classics* (advanced study of both Latin and Greek). Students on the General and Major Programmes will normally be taking advanced courses in other departments; honours students in Latin or Greek should note that it may be possible for them to complete an honours programme in a second field, if they have the joint consent of that department and the Classics Department. It is important that students discuss their programmes with members of the Department as early as possible in the course of their studies at the University. Failure to complete prerequisites for advanced courses in this and other departments may seriously limit the type of degree open to a student in his upper years.

GENERAL

First and Second Years:

The completion of at least 3 units chosen from Departmental offerings (e.g., one of Classical Studies 100; Greek 100; Latin 100 or 140 or 240).

Third and Fourth Years:

9 units in Departmental offerings numbered 300 or above.

MAJOR IN CLASSICAL STUDIES

Students must take

- (a) 3 units of Classical Studies at the 100 or 200 level,
- (b) 6 units of language courses (Greek 100, 200, Latin 100, 140, 200) or Latin 240,
- (c) 15 units at or above the 300 level chosen from Departmental offerings, of which at least 9 units must be selected from Classical Studies.

MAJOR IN CLASSICS

First and Second Years:

Greek Emphasis:

Completion of Greek 200 plus 3 units of Latin or 3 units of Classical Studies at 100 or 200 level.

Latin Emphasis:

Completion of Latin 200 or 240 plus 3 units of Greek or 3 units of Classical Studies at 100 or 200 level.

NOTE: Students who do not begin the study of Greek or Latin until Second Year may still undertake a Classics major, but they will have to complete prerequisite courses in Third Year.

Third and Fourth Years:

15 units in Departmental offerings at or above the 300 level, of which at least 9 units will be in Greek and/or Latin. For major students, Latin 300 and Greek 300 are corequisites for other advanced courses in each language.

NOTE: Students who wish to proceed to the B.A. Degree with a Major in Classical Studies or in Classics are recommended to offer supporting courses in Modern Languages, Anthropology, English, History, Linguistics or Philosophy.

HONOURS

Students of good general standing who have achieved a first class or high second class standing in Latin or Greek during their first two years may be admitted, with Departmental permission, into an intensified Honours programme.

First and Second Years:

Required Courses: Greek 100; Latin 100 or 140 or 240; a second course in either Greek or Latin. Students planning to enter Honours Classics should try, if possible, to carry the study of both Greek and Latin to the 200 level.

Recommended: Classical Studies 100, English 120, any English course at the 200 level.

Third and Fourth Years:

Required courses in the Third and Fourth years will normally not exceed 24 units out of a total student programme of 30-36 units. Any of the requirements listed below may be completed in the First and Second Years by a student who has the necessary pre-requisites.

GREEK

Greek 300, 400 and 12 additional units in Greek numbered above 300. The student must complete 3 units in Greek history (either Greek 350 or Classical Studies 330), and must complete Latin 200 or 240 unless he has special permission from the Department.

LATIN

Latin 300, 400 and 12 additional units in Latin numbered above 300. The student must complete 3 units in Roman history (either Latin 350 or Classical Studies 340), and must complete Greek 200 unless he has special permission from the Department.

CLASSICS

Greek 300, 400; Latin 300, 400; at least 9 additional units in Greek and/or Latin courses numbered above 300. The student must complete 3 units in Greek history (either Greek 350 or Classical Studies 330) and 3 units in Roman history (either Latin 350 or Classical Studies 340).

NOTE: Graduating Honours (Greek, Latin, or Classics) students will be expected to have a reading knowledge of French or German.

Recommended as an elective to Third and Fourth Year General, Major, and Honours students: Liberal Arts 305.

COURSES

Unless indicated otherwise, courses begin in September and end in April.

CLASSICAL STUDIES

A knowledge of the Greek and Latin languages is not required for the following courses.

Classical Studies 100 is designed primarily as an elective for students in all fields, but is recommended also for prospective majors in Classics. It is not a prerequisite for subsequent courses in Classical Studies. Any student in Second Year who has successfully completed Classical Studies 100 and wishes further work in Classical Studies should take either a course in Latin or Greek or a Classical Studies course

at the 200 or 300 level. **Any student in Second Year may register for courses in Classical Studies at the 300 level.** Classical Studies 100 may not be taken by students who have already received credit for any courses in Classical Studies at the 300 level.

Appropriate credit in the Department of History may be given for Classical Studies 330 or 340 or 430 or 440. Philosophy 421 and 422 are acceptable for credit in all programmes in the Department of Classics in lieu of any 400-level course in Classical Studies.

CLAS 100. (3) Greek and Roman Civilization

An approach to the civilization of Greece and Rome through the evidence of literature, history, and archaeology. Attention will be focused upon those aspects of ancient cultural and intellectual growth that are of significance in the western tradition. Emphasis will be placed upon the Aegean Bronze Age, fifth-century Athens, and Augustan Rome.

Readings will include Homer's *Iliad* and *Odyssey*, selections from Herodotus and Thucydides, Sophocles' *Oedipus The King* and other representative Greek dramas, *Phaedo* of Plato, Liry, *The Early History of Rome*, Virgil's *Aeneid* and part of Ovid's *Metamorphoses*.

Essays will be required, and there will be a written examination. (3-0; 3-0)

CLASS 200 (formerly 301). (1½) Mythology of Greece and Rome

A study of the Greek and Roman myths and legends that have an important place in English and European literature and art.

Texts: Ovid's *Metamorphoses* and selections from other Greek and Roman authors; Morford and Lenardon, *Classical Mythology*.

Dr. Smith.

September-December only. (3-0)

CLAS 201. (1½) Tradition and Originality in Classical Literature

A comparative study of the content and form of major works by Greek and Roman writers. After a brief introduction to the genres of classical literature, the course will concentrate on the two important genres of tragedy and the poetry of instruction, together with not more than two others to be chosen from the following: philosophy, lyric poetry, biography, pastoral poetry, oratory. The following will be among the topics discussed: what part does imitation or the adaptation of traditional material play in classical literature? How can a creative writer 'make it new' while working within a strong tradition?

Texts: (a) Euripides, *Hippolytus* and *Trojan Women*; Seneca, *Phaedra* and *Trojan Women*;

(b) Hesiod, *Works and Days*; Lucretius, *The Way Things Are*; Virgil, *Georgics*; Ovid, *The Art of Love*;

together with one or two of the following groups:

(c) Plato, *Symposium* or *Republic X*; Cicero, *On the Good Life*;

(d) Greek Lyric Poetry; Catullus, *Poems*; Horace, *Odes*;

(e) Plutarch, *The Rise and Fall of Athens*; Suetonius, *The Twelve Caesars*;

(f) Theocritus, *Idylls*; Virgil, *Eclogues*;

(g) Demosthenes, *Political Oratory*; Cicero, *Selected Political Speeches*.

Mr. Fitch.

January-April only. (3-0)

CLAS 207 (Philosophy 207). (3) Greek Historical and Philosophical Thought

An introductory study of the development of Greek thought from the prescientific, mythical world views to the theories developed in the fourth century B.C. The parallel development of systematic historical and philosophical thought out of the common ground of the earlier myths will be examined, and the effort to develop acceptable models of explanation for human as well as natural events will be seen to be a point common to the two strands of Greek thought. The philosophical emphasis will be on metaphysical and epistemological issues, and the ideas singled out for study will relate to the structure of the cosmos, the nature of man, and man's relationship to the universe. An attempt will be made to understand these ideas, not as isolated, technical doctrines, but as responses to problems arising within a particular cultural context.

Texts: Hesiod *Theogony*, Plato (Mentor, ed. Rouse), Aristotle (Mentor, ed. Bambergh), The Greek Historians (ed. Toynbee), Aristotle, *Constitution of Athens* (ed. Haffner).

Dr. Michelsen, Dr. Shrimpton. (3-0; 3-0)

CLASS 300 (formerly 310). (1½) Classical Epic

The contrast between Homer's Achilles and Virgil's Aeneas shows how essentially different were the two greatest epics of antiquity. This course traces the complex evolution of the *Aeneid* from the *Iliad*, the *Odyssey*, and other poems, both Greek and Latin. Attention will also be paid to the fortunes of epic after the Augustan Age.

January-April only. (3-0)

CLAS 320 (formerly 315). (1½) Greek Tragedy

The origins and development of tragic drama in ancient Greece. The study, in English translation, of representative plays of Aeschylus, Sophocles and Euripides. Mr. Fitch.

September-December only. (3-0)

CLAS 321. (1½) Classical Comedy and Satirical Writing

A critical survey through the reading in translation of the major works in comedy of the Greco-Roman world together with a survey of the origin and development of satire in classical times.

(Not offered 1974-75; intend to offer 1975-76.) (3-0)

CLAS 330. (3) Greek History

Early Aegean civilizations; the rise of the Greek city-state, with special emphasis on the political, economic, and cultural achievements of the fifth and fourth centuries B.C.; the Hellenistic world.

Outside reading includes selected works listed on the bibliographical sheets distributed at the beginning of lectures. One essay is required in the first term and one in the second term.

Texts: N. G. L. Hammond, *A History of Greece to 322 B.C.*; Plutarch, ed. Edmund Fuller, *Lives of the Noble Greeks*; Herodotus, *The Histories*; Thucydides, *The History of the Peloponnesian War*.

(Not offered 1974-75; intend to offer 1975-76.) (3-0; 3-0)

CLAS 340. (3) Roman History

The growth of Rome and the development of her political institutions during the Republic; the social and economic history of the Empire; the transition from the classical to the medieval world.

Outside reading includes selected works listed on the bibliographical sheets distributed at the beginning of lectures. One essay is required in the first term and one in the second term.

Texts: M. Rostovtzeff, *Rome*; Plutarch, ed. Edmund Fuller, *Lives of the Noble Romans*; W. G. Sinnigen, *Rome*.

Mr. Archbold. (3-0; 3-0)

CLAS 370. (1½) Greek and Roman Thought

A study of Greek and Roman ideas about society, morality and the state as they are evidenced in the works of literature and history. Topics include the status of women in Greece and Rome; slavery; marriage and the family; athletics; the relationship between gods and men and between the gods and ethics; and, briefly, the changes brought by Christianity to Greek and Roman thinking. Authors to be studied include Homer, Hesiod, the tragic and comic poets, the historians, Plato, Lucretius, Cicero's philosophical works, Pliny's letters and the New Testament.

(Not offered 1974-75; intend to offer 1975-76.) (3-0)

CLAS 371 (formerly 350). (1½) Archaeology of Ancient Greece

A study of the archaeological remains from the Aegean Bronze Age, fifth-century Athens, and other sites of importance. Slide lectures, and a final slide examination.

Dr. Shrimpton.

September-December only. (3-0)

CLAS 380. (1½) The Life and Times of Socrates

An examination of a critical moment in Greek intellectual and political life, as seen from various points of view. Topics include: the teaching methods of Socrates and the Sophists, the political background of his trial, the religious and social questions involved, and types of Socratic literature. The approach to the course will not be primarily philosophical; rather, an attempt will be made to see why his challenge to conventional Athenian morality so deeply influenced his fellow-citizens, and to explain why he appears as one of the most fascinating personalities of world history.

Texts: Aristophanes *Clouds*, Plato *Euthyphro*, *Apology*, *Crito*, *Protagoras*, Xenophon *Memoirs of Socrates* and selections from other authors. January-April only. (3-0)

CLAS 430 (formerly 460). (1½) Greek History Seminar

Intensive study of selected topics in Greek history. Prerequisite or co-requisite: Classical Studies 330 or permission of the Department.

Mr. Archbold.

September-December only. (2-0)

CLAS 440 (formerly 460). (1½) Seminar in the History of the Roman World

Intensive study of selected topics in the development of the Roman world. Prerequisite or co-requisite: Classical Studies 340 or permission of the Department.

(Not offered 1974-75; intend to offer 1975-76.)

January-April only. (2-0)

GREEK

GREE 100. (3) Beginners' Greek

A basic introduction to the Greek language, including the following: the three declensions of the noun; the regular, irregular and contracted verbs; a survey of verbs in *mi*; the main constructions; practice in translating sentences into Greek; sight translation. Tests and examinations will be given during the course of the year.

Texts: Pickett and Munday, *Thrasymachus*; Goodwin and Gulick, *Greek Grammar*. It is recommended that students purchase a Liddell and Scott *Intermediate Greek-English Lexicon* for this course. (4-0; 4-0)

GREE 200. (3) Introduction to Greek Literature

Greek 200 is open to students who have completed Greek 100 or its equivalent, and is a prerequisite to Greek courses at the 300 level. Review of grammar mainly through reading; some sight translation and prose composition. Careful reading of the following works: Plato, *Euthyphro*; Euripides, *Alcestis*; Thucydides, *History of the Peloponnesian War*, Book I, Chapters 89-118; Lysias, *Against Diogeiton*; and a few chapters from Xenophon, *Memorabilia*. Also required are North and Hillard, *Greek Prose Composition*; Liddell and Scott, *Intermediate Greek-English Lexicon*; and Goodwin and Gulick, *Greek Grammar*. Tests and examinations will be given during the course of the year. (4-0; 4-0)

GREE 300. (3) Readings in Greek Prose, Drama and Epic

Prerequisite: Greek 200. The basic third-year course for Major and Honours students; advanced Greek students may take the course in their second year. Selected texts (to be varied to some extent from year to year) will be studied from prose and verse authors. Considerable emphasis will be placed on the ability to translate with accuracy and imagination, particularly from Greek into English. Unprepared translation will be included in the final examination.

Texts: Homer, *Odyssey*, Books IX-XI; Herodotus, *History* [40-50 chapters to be announced]; Sophocles, *Antigone*; Thucydides, *History of the Peloponnesian War*, Book VI (40-50 chapters to be announced); and Plato, *Apology*. (3-0; 3-0)

GREE 400. (3) Advanced Reading in Greek Oratory, Philosophy and Drama

The basic fourth-year course for Honours students; prerequisite: Greek 300. Sight translation will be regularly practised, and unprepared translation will be included in the final examination.

Texts (subject to some variation from year to year): A careful reading of Demosthenes' three Olynthiac orations; Plato, *Republic*, Books I-III; Aeschylus, *Eumenides*; and Aristophanes, *Clouds*. (3-0; 3-0)

GREE 490. (1½) Directed Studies in Greek

Depending on the student's interests and on the availability of a supervising instructor, studies may be selected in one or more of the following: 490A Homer, *Iliad*, 490B Homer, *Odyssey*, 490C Hesiod, 490D Greek Lyric Poetry, 490E Greek Tragedy (earlier period), 490F Greek Tragedy (later period), 490G Greek Comedy, 490H Greek Philosophy, 490J Greek Literary Criticism and Rhetoric, 490K Thucydides.

(490A & B were formerly 320; 490 E, F. & G. were formerly 330; 490H was formerly 340.) One term only, to be announced. (2-0)

LATIN

Students who have received credit for high school Latin will be placed by the Department according to their ability. Normally, students with 4 years of high school Latin will register for Latin 240; those with 3 or 2 years, for Latin 140; and those with no previous study, for Latin 100. Latin 200 or Latin 240 is a prerequisite for all Latin courses at the 300 level. Second Year students who have already completed Latin 240 or its equivalent may register for any Latin course at the 300 level.

LATI 100. (3) Beginners' Latin

No previous knowledge of Latin is required. An introduction to the Latin language with easy readings from Roman authors.

Texts: F. M. Wheelock, *Latin*; Cobban and Colebourn, *Civis Romanus*. Recommended: Allen & Greenough, *New Latin Grammar*; *Cassell's New Latin Dictionary*. (4-0; 4-0)

LATI 140. (3) Intermediate Latin

Prerequisite: Latin 10 or 11 or permission of the Department. An accelerated review of Latin grammar, with selected readings from prose and verse authors. Some emphasis will be placed on the student's ability to read Latin aloud.

Texts: F. M. Wheelock, *Latin*; Cobban and Colebourn, *Civis Romanus*. Recommended: Allen & Greenough, *New Latin Grammar*; *Cassell's New Latin Dictionary*. (4-0; 4-0)

All work at the 200 level or beyond will require a *Cassell's New Latin Dictionary* and Allen & Greenough, *New Latin Grammar*.

LATI 200. (3) Latin Language and Literature

Prerequisite: Latin 100 or equivalent; not open to students who have completed Latin 140. The emphasis will be on an increased understanding of the language through a reading of the authors.

Texts: Cicero, *Pro Archia*; Tibullus, *Select Elegies*; and selected readings from other authors; *Cassell's New Latin Dictionary*; Allen & Greenough, *New Latin Grammar*; F. M. Wheelock, *Latin*. (4-0; 4-0)

LATI 240. (3) Introduction to Latin Literature

Prerequisite: Latin 12 or Latin 140. An introduction to major Latin poets and prose-writers and a consideration of their style and significance. Some emphasis will be placed on sight translation, Latin composition, metre and reading aloud.

Texts: Cicero, *First Catilinarian Oration*; Pliny, *Selected Letters*; Catullus, *Selections*; Virgil, The Aristaeus Episode of *Georgics* IV (lines 281 to the end) together with *Eclogues* I, IV and VIII, *Cassell's New Latin Dictionary*; Allen & Greenough, *New Latin Grammar*. (4-0; 4-0)

LATI 300. (3) Latin Literature, especially of the Golden Age

The basic third-year course for Major and Honours students; advanced Latin students may take the course in their second year. Selected texts (to be varied to some extent from year to year) will be studied from prose and verse authors, principally of the Ciceronian and Augustan ages. Considerable emphasis will be placed on the ability to translate with accuracy and imagination, particularly from Latin into English. Students will be expected to practise reading aloud from the authors selected, and may be examined on their competence. Unprepared translation will be included in the final examination.

Texts: Cicero, *Pro Caelio*; Livy, Book XXI or Book XXX; Virgil, *Aeneid* VI, or IV, or II or XII; Horace, selected *Odes*. (3-0; 3-0)

LATI 301 (formerly 310). (1½) Horace

A study of the poetic achievement of Horace in the fields of satire and the literary epistle (excluding the *Ars Poetica* and the *Epistle to Augustus*).

Texts: The prescribed edition will be the Oxford Classical Text of Horace. General works on Horace, commentaries, and relevant scholarly articles will be recommended at the beginning of the course.

(Not offered 1974-75.)

(3-0)

LATI 302 (formerly 310). (1½) Literary Criticism and Rhetoric

An examination of the main sources for Latin literary criticism. Besides selected portions of Cicero and Horace there will be the reading of key passages from the letters of Seneca and Pliny, from Petronius' *Satyricon*, from Tacitus' *Dialogus*, and from Quintilian's *Institutio Oratoria*. These passages will be carefully examined and compared.
January-April only. (3-0)

LATI 303 (formerly 320). (1½) Virgil: Pastoral and Didactic

A study of the poet of the *Eclogues* and the *Georgics*, with some consideration of the problems of the *Appendix Vergiliana*.

Text: The Oxford Classical Text of Virgil (ed. R. A. B. Mynors).

September-December only. (3-0)

LATI 304 (formerly 320). (1½) Virgil: the Aeneid

A study of the greatest Roman epic and an evaluation of the poet's place in the classical tradition. Information about general books on Virgil and on epic poetry, together with advice on commentaries and scholarly criticism, will be supplied at the beginning of the session.

Text: The Oxford Classical Text of Virgil (ed. R. A. B. Mynors).

January-April only. (3-0)

LATI 305. (1½) Cicero — the earlier period

The earlier career of Cicero; the evolution of his political ideas and the development of his literary style. Selected readings, with an emphasis on the *Letters*.

(Not offered 1974-75; intend to offer 1975-76.)

(3-0)

LATI 306. (1½) Cicero — the later period

The later career of Cicero, and his contribution to western humanism; a careful examination of the Ciceronian style. Selected readings, with an emphasis on the philosophical works.

(Not offered 1974-75; intend to offer 1975-76.)

(3-0)

LATI 350. (3) Roman Historians

A study of Latin historiography; readings from Caesar, Sallust, Livy, Tacitus, and Ammianus Marcellinus.

(Not offered 1974-75.)

(3-0; 3-0)

LATI 400. (3) Latin Literature, especially of the Silver Age

The basic fourth-year course for Honours students; prerequisite: Latin 300. The authors studied (subject to some variation from year to year) will be drawn mostly from Silver Latin. Problems of syntax, metre and stylistics will be examined. Sight translation from more difficult authors will be regularly practised, and unprepared translation will be included in the final examination.

Texts: Seneca, *Select Letters*, or Seneca, *De Vita Beata*; Tacitus, *Agricola*, or *Annals* I or XIV; Lucretius, V, III, or I; Juvenal, *Satires* I, III, and X. (3-0; 3-0)

LATI 490. (1½) Directed Studies in Latin

Depending on the student's interests and on the availability of a supervising instructor, studies may be selected in one or more of the following: 490A Roman Comedy, 490B Satire and Invective, 490C Lucretius, 490D Roman Elegy, 490E Ovid, 490F Medieval Latin, 490G Livy, 490H Tacitus, 490J History of the Latin Language (Early Period), 490K History of the Latin Language (Later Period).

(490A was formerly 360; 490B was formerly 370; 490C was formerly 330; 490D was formerly 340.) One term only, to be announced. (2-0)

GRADUATE COURSES

CLAS 510. (3) Classical Epic

CLAS 520. (3) Classical Drama

CLAS 530. (3) Ancient Historiography

CLAS 540. (3) Lyric and Elegiac Poetry

CLAS 560. (3) Seminar in Augustan Poetry

CLAS 580. (1½) Greek Composition, Stylistics and Metre

CLAS 581. (1½) Latin Composition, Stylistics and Metre

CLAS 599. M.A. Thesis

The unit value of the thesis will normally be 3 or 6. In exceptional cases more than 6 units may be awarded. Before the thesis is begun, the candidate must arrange with his advisors and the Department the number of units to be assigned for it.

DEPARTMENT OF CREATIVE WRITING

Robin Skelton, B.A., M.A. (*Leeds*), F.R.S.L., Professor and Chairman of the Department.

Lawrence W. Russell, B.A. (*U. of Vic.*), M.A. (*Calif.*), Assistant Professor.

Derk Wynand, B.A., M.A. (*Brit. Col.*), Assistant Professor.

Kathleen Raine, M.A. (*Cantab.*), Sessional Lecturer.

William D. Valgardson, B.A., B.Ed. (*Man.*), M.F.A. (*Iowa*), Sessional Lecturer.

Although the programme offered by the Creative Writing Department is intended, in the main, to serve those students who have shown some ability as writers, it also includes a number of lecture courses which may be of interest and value to non-writing students. Entrance to these courses (marked *) is unrestricted. All other courses can only be taken by students who have secured the permission of the Department. Students wishing to take these restricted courses should, when applying for entrance to them, provide some examples of their written work.

In normal circumstances, Creative Writing 100 is prerequisite to all Creative Writing Seminars. However, students who satisfy the Department's standards, by either the production of written work or the passing of courses in Creative Writing at other institutions, may be given credit for Creative Writing 100 and enter the Programme at the second year level. Only in extremely exceptional cases, will students taking a major programme in Creative Writing be freed from the obligation to take Creative Writing 200.

The Creative Writing Programme should include a coherently organized group of courses from related disciplines. Members of the Creative Writing Department are available to help students in the appropriate selection of their courses.

Students wishing to take a General Programme in Creative Writing will be required to take Creative Writing 100, English 121 and 122 or 111 and 115, Creative Writing 200, 3 units from English 200 or 201/3/4/5 and 3 units chosen from Creative Writing 201/2/3, and not less than 9 units of Creative Writing numbered 300 or above, including at least one workshop course.

Students wishing to take a Major Programme in Creative Writing will be required to take Creative Writing 100, English 121 and 122 or 111 and 115, Creative Writing 200, 3 units from English 200 or 201/3/4/5 and 3 units chosen from Creative Writing 201/2/3, and not less than 15 units of Creative Writing numbered 300 or above. The courses taken must include at least one workshop in each of the final two years.

No student will be permitted to take more than two workshops in any given year.

Subject to the regulations relating to prerequisites, entrance to courses in the Creative Writing Programme is open to any student who satisfies the Department as to his or her ability, regardless of the faculty in which the student is registered. Students in the Faculty of Fine Arts and the Faculty of Education, subject to the regulations of those faculties, may take Creative Writing courses for credit.

COURSES

FIRST YEAR

C W 100. (3) Introduction to Creative Writing

This course consists of a one hour weekly lecture and a weekly two-hour workshop. The lectures will present a non-historical survey of some of the basic structures in English Poetry, Drama, and Fiction, together with a preliminary discussion of the nature of the creative process as regards literature. The workshop will involve the students in the study of "models" in poetry, fiction, and drama, and in the writing of compositions in all three genres. Each workshop will contain not more than 15 students.

Co-requisite: English 121 and 122 (or English 111 and 115 by permission of the Department).

Texts: Paul Engle: *On Creative Writing* and the instructor's choice.

Members of the Department.

(1-2; 1-2)

SECOND YEAR

*C W 200. (3) *The Theory and Practice of Literary Creation*

This is a lecture course surveying the nature of the creative process and considering the many theories about it. Use will be made of authors' worksheets, both published and in the Rare Book Room of the McPherson Library.

Suggested reading: Brewster Ghiselin: *The Creative Process*; Anthony Ostroff: *The Contemporary Poet as Artist and Critic*; Rosemary Harding: *The Anatomy of Inspiration*; Joseph Langland: *Poets' Choice*.

Robin Skelton.

(3-0; 3-0)

C W 201. (3) *Poetry Workshop*

A workshop seminar in which the students are instructed and guided in the writing of poetry.

Prerequisite: Creative Writing 100 or permission.

Text: Robin Skelton: *The Practice of Poetry*.

Kathleen Raine.

(0-2; 0-2)

C W 202. (3) *Fiction Workshop*

A workshop seminar in which the students are instructed and guided in the writing of fiction.

Prerequisite: Creative Writing 100 or permission.

W. D. Valgardson.

(0-2; 0-2)

C W 203. (3) *Drama Workshop*

A workshop seminar in which students are instructed and guided in the writing of drama.

Prerequisite: Creative Writing 100 or permission.

Lawrence Russell.

(0-2; 0-2)

*C W 204. (3) *Recurrent Themes in Literature*

A lecture course surveying recurrent themes in English Literature and in other Literatures in Translation.

Kathleen Raine.

(3-0; 3-0)

THIRD YEAR

*C W 300. (3) *Structure in English Poetry*

A lecture course surveying the structural composition of key poems of the English Language, taking its material from the 17th to the 20th centuries. The aspects of structure discussed will include Prosody, Diction, Imagery, Abstract Form, and Sound Patterns.

Text: *The Norton Anthology of Poetry*.

Robin Skelton.

(3-0; 3-0)

*C W 301. (3) *Structure in English Fiction*

A lecture course surveying the structural composition of key works of fiction writing written in the English language, taking its material from the 17th to the 20th centuries.

W. D. Valgardson.

(3-0; 3-0)

*C W 302. (3) *Structure in English Drama*

A lecture course surveying the structural characteristics of drama written in English, taking its material from the 16th to the 20th centuries.

Lawrence Russell.

(3-0; 3-0)

C W 303 (formerly ENGL 401). (3) Poetry Workshop
Prerequisite: Creative Writing 201 or permission.
Kathleen Raine. (0-3; 0-3)

C W 304 (formerly ENGL 402). (3) Fiction Workshop
Prerequisite: Creative Writing 202 or permission.
W. D. Valgardson. (0-3; 0-3)

C W 305 (formerly ENGL 403) (3) Drama Workshop
Prerequisite: Creative Writing 203 or permission.
Lawrence Russell. (0-3; 0-3)

C W 306. (3) Seminar in Literary Procedures
This workshop-seminar will instruct students in various skills which may be of use to them in pursuing either an academic or non-academic career. Matters dealt with will include descriptive bibliography, textual editing, collation of texts, indexing, reviewing, copy-editing, article writing, compiling and anthologizing, the preparation of screen and TV treatments, writing for radio, and interviewing. Copyright law and publishing practices will also be discussed.
Enrolment will be limited.
Robin Skelton. (1-2; 1-2)

FOURTH YEAR

***C W 400. (3) Innovations in Twentieth Century Literature**
A lecture course surveying key works in twentieth century literature and discussing experimental writing. The material discussed will be taken from the literature of a number of countries.
Derk Wynand. (3-0; 3-0)

C W 401 (formerly ENGL 404). (3) Advanced Poetry Workshop
Prerequisite: Creative Writing 303. (0-3; 0-3)

C W 402 (formerly ENGL 405). (3) Advanced Fiction Workshop
Prerequisite: Creative Writing 304.
W. D. Valgardson. (0-3; 0-3)

C W 403 (formerly ENGL 406). (3) Advanced Drama Workshop
Prerequisite: Creative Writing 305.
Lawrence Russell. (0-3; 0-3)

C W 404. (3) Special Studies Seminar
This Seminar exists for students who wish to specialize in fields outside the three main categories of Poetry, Fiction and Drama. It will cater to students working in Psycho-Linguistics, and in Multi-Media, and in the field of Translation. It will also cater to students in Journalism. It will be taught on a tutorial basis.
Members of the Department and others.
Permission of the Department. (0-3; 0-3)

NOTE: Every student in a fourth year workshop will be required to present a substantial body of work organized in book form. The creation of this work will be supervised by an appropriate member of the Department.

DEPARTMENT OF ECONOMICS

Leonard Laudadio, B.A. (*Puget Sound*), M.A., Ph.D. (*Wash.*), Professor and Chairman of the Department.

Leo I. Bakony, B.A. (*Brit. Col.*), Ph.D. (*Wash.*), Professor.

Gordon W. Bertram, B.A. (*Brit. Col.*), Ph.D. (*Calif.*), Professor.

G. Reid Elliott, B.A. (*Sask.*), M.A., Ph.D. (*Tor.*), Professor Emeritus.

J. Colin H. Jones, B.A. (*Wales*), M.A. (*Montana St.*), Ph.D. (*Queen's*), Associate Professor.

Izzud-Din Pal, B.A., M.A. (*Panjab*), M.Sc.Econ. (*London*), Ph.D. (*McGill*), Associate Professor.

Robert V. Cherneff, B.A. (*U. of Vic.*), M.A., Ph.D. (*Wash.*), Assistant Professor.

Joseph Schaafsma, B.A., M.A. (*McMaster*), Ph.D. (*Tor.*), Assistant Professor.

John A. Schofield, B.A. (*Durh.*), M.B.A. (*Indiana*), M.A., Ph.D. (*S. Fraser*), Assistant Professor.

William D. Walsh, B.Com. (*Brit. Col.*), M.A., Ph.D. (*Yale*), Assistant Professor.

Gerald R. Walter, B.A., M.A., Ph.D. (*Calif.*), Assistant Professor.

James E. Currie, B.Com. (*Brit. Col.*), M.B.A. (*McMaster*), Part-time Lecturer.

J. Trevor Matthews, B.A. (*Brit. Col.*), M.B.A. (*Stanford*), Part-time Lecturer.

Robert W. McQueen, B.Com. (*Brit. Col.*), C.A., Part-time Lecturer.

INTRODUCTORY AND INDIVIDUAL COURSES

Students who wish to take only one course in Economics should consider Economics 100. Upper division courses may also be taken subject to the regulations governing the prerequisite courses.

GENERAL, MAJOR AND HONOURS PROGRAMMES

Requirements:

- (i) For General Programme with 9 units in Economics:
 - (a) Economics 200.
 - (b) Economics 302 and 303, and 6 additional units in Economics courses numbered 300 or above.
- (ii) For Major:
 - (a) Economics 200 with at least a second class standing.
 - (b) A total of 15 units in courses numbered 300 and above, including 321, 340, and one of the following options: 302 and 303, or 302 and 301, or 300 and 303, or 300 and 301.
 - (c) Mathematics 130 (or 100 and 101) or 151 and 102 (formerly 140) unless permitted by the Department to omit this requirement in special circumstances.
- (iii) For Honours:
 - (a) Mathematics 30 (or 100 and 101) or 151 and 102 (formerly 140) unless permitted by the Department to omit this requirement in special circumstances.
 - (b) Economics 200 with at least a high second class standing.
 - (c) Economics 300, 301, 321, 340, 341 (or Mathematics 253), 470 and 21 additional units of which at least 12 units must be in Economics courses numbered above 300 and at least 6 units must be in another subject or subjects with the approval of the Department.

Recommended: Commerce 151 (1½ units) and 190 (1½ units), 3 units of Mathematics in addition to Mathematics 151 and 102 (formerly 140), Political Science 200 or 216 (formerly 318).

- (d) Admission to Honours programme, which should be sought at the end of the Second Year, requires permission of the Department. Interested students should consult the Department as early as possible in the first two years. Students will be admitted to Honours programme only if they have obtained at least a second class standing in the Second Year. They will be required to maintain at least a second class average in Economics courses taken in the Third and Fourth Years. Economics 470 is required for all Fourth Year Honours students. Third Year Honours students will be required to attend the Seminars. There will be a comprehensive examination in Economics 470 at the end of the Fourth Year in which at least a second class standing will be required for Honours.

COURSES

ECONOMICS

Unless indicated otherwise, courses begin in September and end in April.

Economics 200 is a prerequisite for all Third Year courses but, in special cases, Economics 200 may be taken concurrently with Economics 340 and 341 with the permission of the Department. Economics 302 and 303, or 300 and 301 (or any of the options listed under Major (b) above) are prerequisites for all courses numbered 400 and above unless permission is granted by the Department.

ECON 100. (3) Introduction to Economics

An introduction to the basic concepts of economic analysis. Discussion of the process of decision making by consumers and producers. The meaning of equilibrium and the determination of national income. Some discussion of Canadian institutions and economic policies, cycles, growth, and international trade.

Prerequisite: None; credit cannot be obtained by those who have previous credit in Economics.

Text: To be announced.

Members of the Department: sections to be announced. (3-0; 3-0)

ECON 200. (3) Principles of Economics

The principles of economic analysis with special reference to the theory of demand, the theory of the firm, fluctuations in income and prices, monetary and fiscal policies for economic stabilization. This is the basic course in economic theory and is a prerequisite for all courses numbered 300 and above.

Prerequisites: None; not open to first year students.

Text: To be announced.

Members of the Department: sections to be announced. (3-0; 3-0)

ECON 300. (3) Microeconomics

Theories of demand and production; pricing of factors of production; general equilibrium theory; welfare economics; some applications of price theory.

Text: To be announced.

Dr. Laudadio. (3-0; 3-0)

ECON 301 (formerly 400). (3) Macroeconomic Theory

Theories of income and employment with special reference to the classical and the Keynesian models; the dynamics of aggregate supply and demand; theory of inflation; economic growth.

Text: To be announced.

Members of the Department. (3-0; 3-0)

ECON 302. (1½) Intermediate Microeconomic Theory

The allocation of resources under competitive and non-competitive market conditions. Analytical significance of prices, wages, and rents in understanding the market exchange economy. Problems of private and public choice in a decentralized and centrally planned economic environment. Implications of tax, ration, and licensing schemes for economic management.

Text: To be announced.

Members of the Department. (3-0)

ECON 303 (formerly one-half of 302). (1½) Intermediate Macroeconomic Theory

Theories of aggregate economic behaviour; the determination of national income and employment, consumption, investment, inflation, growth and fluctuations, economic policy. Not open to students with credit for Economics 302 (3).

Text: To be announced.

Members of the Department. (3-0)

ECON 305. (1½) Introduction to Money and Banking

The principles of money, credit creation and banking; organization, operation and control of the banking system; and the relationship between the quantity of money and the level of economic activity.

Text: To be announced. Supplemental Reading.

Dr. Cherneff. September-December only. (3-0)

ECON 310. (3) Industrial Organization and Public Policy

Problems of competition and monopoly; relevant public policy, with special reference to Canada.

Text: To be announced. Supplementary reading and term paper.

Dr. Jones. (3-0; 3-0)

ECON 315. (3) Labour Economics and Institutions

An examination of labour as a factor of production; the development of national labour markets and their contemporary structure; functions and performance. Amongst other areas, consideration will be given to the following: industrial relations systems, labour history, the nature of organized labour, the collective bargaining process, contemporary labour problems and public policy.

Text: To be announced. Supplementary reading.

Dr. Walsh. (3-0; 3-0)

ECON 321. (3) The Economic History of Canada

The study of long-run economic growth and welfare in the Canadian economy, with the aid of economic analysis, quantitative data and other historical materials. Emphasis on the development of the Canadian economy from a resource-based economy to a developed industrial economy within an international setting. Consideration of the sources of Canadian economic growth and the reasons for Canadian income differentials with other nations.

Text: To be announced. Term paper. Supplemental reading.

Dr. Bertram. (3-0; 3-0)

ECON 323. (3) Comparative Economic Systems

A study of the economic systems of societies at all levels of economic and social development. The first term concentrates on the economic systems of tribal and peasant societies, and the emergence of the market as a form of social and economic organization. The second term is devoted to the analysis of modern economic systems. The roles of the market and economic planning as forms of economic organization and control are examined in detail for several representative countries, e.g. Canada, U.S.S.R., France, China.

Text: To be announced. Supplementary reading. (3-0; 3-0)

ECON 325. (1 ½) Public Finance

A discussion of taxation and expenditure policies with an emphasis on Canada. Micro-economic effects of these policies will be examined in detail.

Text: To be announced.

Members of the Department.

September-December only. (3-0)

ECON 326. (1 ½) Fiscal Policy and Related Issues

A discussion of fiscal and debt-management policy. This course would examine the historical record of Canadian policy since the depression and theoretical possibilities for the present and future.

Text: To be announced. Term paper.

Mr. Schaafsma.

January-April only. (3-0)

ECON 340. (1 ½) Descriptive Statistics

Methods of Sampling, Frequency Distributions, Frequency Charts, Measures of Central Tendency, Measures of Dispersion, Measures of Shape, Index Numbers, Trend Analysis, Regression and Correlation as a Descriptive Technique, Seasonality.

Text: To be announced. Problems assigned weekly.

NOTES: 1. Prerequisite: Mathematics 151 and 102 (formerly 140), or Mathematics 180 (formerly 150) or permission of the Department.

2. This course may be taken concurrently with Economics 200 or Economics 201 only with the permission of the Department.

Members of the Department.

September-December only. (3-0)

ECON 341. (1 ½) Statistical Inference

Probability Theory, Sampling Theory, Confidence Limits, Tests of Hypotheses, Regression and Correlation. Not open to students who have credit for Mathematics 253.

Prerequisite: Economics 340 and Mathematics 130 or Math 151* and 102* or permission of the Department. (*Formerly Mathematics 140.)

Text: To be announced.

Mr. Schaafsma.

January-April only. (3-0)

ECON 350. (1 ½) Soviet Economics

An examination of the functioning of Soviet-type economic systems, the principles of economic planning and coordination, and the role of Marxian economic theory. The major emphasis is on the Soviet Union; China and the Soviet-type economies of Eastern Europe are studied briefly.

Text: To be announced. Supplementary reading.

January-April only. (3-0)

ECON 402 (formerly 401). (1 ½) History of Economic Thought

A survey of economic thought from pre-Smith to Keynes. This course is designed to provide an overview of the ideas of major thinkers in this period. (Not open to students who have credit for Economics 401 (3).)

Prerequisites: Economics 200.

Texts: Taylor, *A History of Economic Thought*; Newman, Gayer, Spencer, *Source Readings in Economic Thought*.

Members of the Department.

September-December only. (3-0)

ECON 403 (formerly 401). (1 ½) Selected Topics in the History of Economic Thought

In-depth study of the economic models of Smith, Ricardo, Marx, Marshall, and Keynes. A seminar paper written by the student is an essential part of the course. (Not open to students who have credit for Economics 401 (3).)

Prerequisites: Economics 402.

Text: To be announced.

Members of the Department.

January-April only. (3-0)

ECON 405. (3) International Economics

Theory of international trade; comparative costs and general equilibrium theory; balance of payments; international stability; trade policy; international aspects of economic development of under-developed countries.

Text: To be announced. Supplementary reading. Term paper.

Dr. Pal.

(3-0; 3-0)

ECON 406. (1 ½) Monetary Theory and Policy

The examination of the comparative efficacy of the instruments of monetary control; the objectives and effectiveness of monetary policy; the theory of the demand for money; money supply theory; and international monetary problems.

Prerequisite: Economics 302 or Economics 300 and 301 or permission of the Department. Economics 305 is recommended.

Text: To be announced. Supplementary reading.

Dr. Cherneff.

January-April only. (3-0)

ECON 410. (3) Principles and Problems of Economic Policy

Consideration of agricultural policy, monetary policy, fiscal policy, commercial policy, anti-monopoly policy, labour policy, social security and economic planning. An essay will be assigned during the session on a topic dealing with an aspect of government economic policy in Canada.

Text: To be announced.

Dr. Jones.

(3-0; 3-0)

ECON 412. (1 ½) Urban Economics

Application of economic theory to the form and structure of urban areas. External effects and public policy in the urban context. Topics include: intraurban location, systems of cities, economic function and the specialization within the city, the economics of urban transport, housing and public services.

Text: To be announced. Term paper.

Dr. Walter.

September-December only. (3-0)

ECON 414. (1 ½) Regional Economics

Consideration of economic factors controlling regional income and population growth. The problem of regional economic disparities. Models for evaluating and forecasting subnational economic growth. Topics include: regional accounting, migration, comparative advantage, application of input-output, economic base, industry complex models, and associated public policies.

Text: To be announced. Term paper.

Members of the Department.

January-April only. (3-0)

ECON 420. (3) Theory of Economic Development

Theories of economic growth; role of the non-economic factors in economic development; planning and financing economic development; some lessons of experience in growth and change.

Text: To be announced. Term paper.

(3-0; 3-0)

ECON 421. (1 ½) European and International Economic History

The rise of capitalism and the Industrial Revolution especially in Western Europe. The British experience and comparative rates of growth in European countries, with some attention given to the transference of industrialization techniques to non-European countries.

Text: To be announced.

Dr. Bertram.

January-April only. (3-0)

ECON 423. (1½) Selected Topics in Economic History

The quantitative techniques of the "new economic history"; their application to analysis of trends in Canadian and International Economic History. Topics include railroads, growth, mechanics of adjustment.

Prerequisites: Economics 321, 340, 341 or approval of instructor.

Text: To be announced.

Dr. Bertram.

September-December only. (3-0)

ECON 430. (3) Economics of Natural Resources and Environmental Policy

The application of economic theory to the use and exploitation of natural resources. A discussion of economic theory in relation to problems of allocation, distribution, stability, and economic growth as they relate to resource management is undertaken, followed by an investigation of particular problems in various resource industries, and questions relating to environmental quality. Special emphasis will be placed on resource development problems in Canada and in British Columbia.

Prerequisite: Economics 200 is a prerequisite for all courses numbered 300 and above.

Text: To be announced. Term papers First and Second terms.

Members of the Department.

(3-0; 3-0)

ECON 440. (3) Mathematical Economics

The use of mathematics to derive economic theory. Topics include optimization theory for the consumer and the firm using calculus and linear programming, input-output analysis and dynamics. Very little outside reading is required. Problems are assigned every week.

Prerequisite: Mathematics 240, or permission of the Department.

Text: A. C. Chiang, *Fundamental Methods of Mathematical Economics*.

Members of the Department.

(3-0; 3-0)

ECON 445. (3) Econometrics

The application of statistical methods in economics illustrated by representative empirical studies. Problem assignments will be devoted to data preparation and the use of the computer.

Prerequisites: Economics 340 and 341 and either Mathematics 240 or 100, 101 and 110.

Text: To be announced.

Members of the Department.

(3-1; 2-2)

ECON 470. (3) Honours Seminar

NOTE: For Honours students only.

ECON 495. (3) Directed Studies

An elective course for selected Honours students which may, with the permission of the Department, be substituted for another elective course numbered above 400.

Members of the Department.

COMMERCE

COMM 151. (1½ formerly 3) Fundamentals of Accounting

The analysis and communication of financial events and an examination of the accounting postulates underlying the preparation and presentation of financial statements.

Prerequisite: Commerce 190 or permission.

Text: To be announced.

Mr. McQueen, Dr. Schofield.

January-April only. (3-0)

COMM 190. (1 ½) Fundamentals of Business

An examination of the legal, financial and organizational structure of business enterprise with particular respect to the Canadian environment. Not open to students with 3 units credit in Commerce 151.

Prerequisite: Second-year standing.

Mr. Currie, Dr. Schofield.

September-December only. (3-0)

GRADUATE COURSES

(Consult Department for courses offered in any given year.)

ECON 500. (1 ½) Micro Economic Theory

Analysis of decision making by consumers and firms; study of equilibrium positions in different market structures; welfare economics; recent contributions to price theory.

ECON 501. (1 ½) Macro Economic Theory

Macro economic relationships, static and dynamic models, properties of dynamic models, policy analysis with large dynamic models.

ECON 505. (1 ½) International Trade

Selected theoretical issues in international trade, such as trade and relative prices and factor supply, theory of customs unions exchange rate, trade and economic growth, and adequacy of international reserves.

ECON 506. (1 ½) Monetary Theory and Policy

The examination of selected contributions to contemporary monetary theory and policy. Topics to be considered include the integration of value and monetary theory, the theory of demand and supply of money, interest rate and monetary policy.

ECON 510. (1 ½) Industrial Organization and Public Policy

Seminar in the structure and performance of industrial markets with special emphasis on the problems of maintaining effective competition in Canada.

ECON 514. (1 ½) Regional and Urban Economic Growth

Seminar in analytical approaches to understanding subnational economic growth including growth poles, comparative advantage, capital and labour migration and related topics. Methods of impact analysis and forecasting. Regional and urban disparities in wealth and income and approaches to their alleviation.

Prerequisite: Elementary calculus and macro economic theory.

ECON 515. (1 ½) Labour Economics

Seminar in labour economics and collective bargaining, including wage and employment theory, collective bargaining systems, theory of the labour movement, and public policy in collective bargaining.

ECON 520. (1 ½) Economic Development

Seminar to examine selected issues in the theoretical models of economic development, factors in economic development, strategy of economic planning, and financing of economic development.

ECON 521. (1 ½) Economic History

Seminar in selected topics in economic history including the approach and contributions of "the new economic history," theories of long-run economic growth, history and analysis of long-run economic growth in selected countries, and new work in the literature.

ECON 525. (1 1/2) Public Finance and Fiscal Policy

Seminar in selected topics in fiscal policy and public finance including the incidence and effects of taxation, government expenditure programmes and public debt operations.

ECON 530. (1 1/2) Economics of Natural Resources

Seminar in the economics of natural resources including a survey of relevant theoretical literature and selected topics covering problems in resource industries.

ECON 540. (1 1/2) Quantitative Methods

Review of basic statistical inference techniques with extensions relevant to economic analysis. Applications to specific problems.

Prerequisite: Economics 340 or equivalent.

ECON 545. (1 1/2) Econometrics

Seminar in single equation and simultaneous equation techniques and applications. Simulation experiments with large econometric models. Optimal decision procedures.

Prerequisite: Economics 445 or equivalent.

ECON 550. (1 1/2) Soviet Economics

The structure and functioning of Soviet and Eastern European economies. Theory and practice of socialist pricing; planning; economic development; problems of measurement and comparisons with Western economies.

ECON 595. (1 1/2) Directed Studies

May be offered in areas A or B, each for 1 1/2 units. Students may elect to take either or both in any one Winter Session.

ECON 599. (3) Thesis

DEPARTMENT OF ENGLISH

- David L. Jeffrey, B.A. (*Wheaton*), M.A., Ph.D. (*Princeton*), Associate Professor and Chairman of the Department of English.
- Roger J. Bishop, B.A., Dip.Ed. (*Brit. Col.*), B.L.S., M.A. (*Tor.*), Professor Emeritus.
- Roy F. Leslie, B.A., M.A., Ph.D. (*Manchester*), Professor.
- Frederick Mayne, B.A., Ph.D. (*Witwatersrand*), Professor.
- John D. Peter, M.A. (*Cantab.*), B.A., LL.B., D.Litt. (*S. Africa*), D.Litt. (*Rhodes*), Professor.
- William Benzie, M.A., M.Ed., Ph.D. (*Aberdeen*), Associate Professor, Director of Major and General Programmes.
- Michael R. Best, B.A., Ph.D. (*Adelaide*), Associate Professor.
- Charles D. Doyle, B.A., M.A. (*N.Z.*), Ph.D. (*Auckland*), Associate Professor. (On study leave 1974-75.)
- Melvyn D. Faber, B.A. (*Chicago*), M.A., Ph.D. (*Calif., Los Angeles*), Associate Professor.
- Patrick Grant, B.A. (*Queen's, Belfast*), D.Phil. (*Sussex*), Associate Professor.
- John G. Hayman, B.A., M.A. (*Oxon.*), M.A. (*Cornell*), Ph.D. (*Northwestern*), Associate Professor.
- Anthony W. Jenkins, M.A. (*Cantab.*), Ph.D. (*Calif., Berkeley*), Associate Professor, Director of Honours Programme.
- Carol V. Johnson, B.A. (*Coll. of St. Catherine*), M.A. (*Marquette*), M.F.A. (*Iowa*), Ph.D. (*Bristol*), Associate Professor.
- Patricia Köster, B.A. (*Brit. Col.*), M.A. (*Calif., Berkeley*), Ph.D. (*London*), Associate Professor.
- Burton O. Kurth, B.A. (*Brit. Col.*), Ph.D. (*Calif., Berkeley*), Associate Professor. (On study leave 1974-75.)
- Chester L. Lambertson, B.A., M.A. (*Alta.*), Ph.D. (*Harvard*), Associate Professor.
- Robert G. Lawrence, M.A. (*New Brunswick*), Ph.D. (*Wisconsin*), Associate Professor.
- Samuel L. Macey, B.A. (*Brit. Col.*), Ph.D. (*Wash.*), F.I.W.S.P., Associate Professor.
- G. Grant McOrmond, C.D., M.A. (*Sask.*), Associate Professor, Director of Freshman English.
- Colin J. Partridge, B.A. (*Nottingham*), Cert. Ed. (*London*), Ph.D. (*Nottingham*), Associate Professor.
- Herbert F. Smith, A.B., A.M. (*Boston*), Ph.D. (*Rutgers*) Associate Professor. (On study leave 1974-75.)
- Henry E. Summerfield, B.A., M.A. (*Oxon.*), M.Litt. (*Durham*), Associate Professor.
- David S. Thatcher, B.A. (*Cantab.*), M.A. (*McMaster*), Ph.D. (*Alta.*), Associate Professor.
- Lionel Adey, B.A., M.A. (*Birmingham*), Ph.D. (*Leicester*), Assistant Professor.
- Norman W. Alford, B.A. (*London*), Ph.D. (*Texas*), Assistant Professor.
- Thomas R. Cleary, B.A. (*Queens Coll.*), M.A., Ph.D. (*Princeton*), Assistant Professor.
- Anthony S. G. Edwards, B.A. (*Reading*), M.A. (*McMaster*), Assistant Professor.
- Anthony B. England, B.A., M.A. (*Manchester*), Ph.D. (*Yale*), Assistant Professor. (On study leave 1974-75.)
- George H. Forbes, B.A. (*Brit. Col.*), M.A., Phil.M. (*Toronto*), Assistant Professor.
- Bryan N. S. Gooch, B.A., M.A. (*Brit. Col.*), Ph.D. (*London*), A.R.C.T. (*Tor.*), L.T.C.L., F.T.C.L. (*London*), Assistant Professor.
- Velma L. Gooch, B.Ed., M.A. (*Alta.*), Ph.D. (*Manchester*), Assistant Professor. (On study leave 1974-75.)

Victor A. Neufeldt, B.A. (*Brit. Col.*), Ph.D. (*Ill.*), Assistant Professor. (On study leave 1974-75.)

Constance M. Rooke, B.A. (*Smith Coll.*), M.A. (*Tulane*), Ph.D. (*N. Carolina*), Assistant Professor.

Norma Rowen, B.A. (*Oxon.*), Ph.D. (*Calif., Berkeley*), Assistant Professor.

Robert M. Schuler, B.A. (*Bellarmino*), M.A., Ph.D. (*Colorado*), Assistant Professor.

Terry G. Sherwood, B.A. (*Ore.*), M.A., Ph.D. (*Calif., Berkeley*), Assistant Professor. (On study leave 1974-75.)

Nelson C. Smith, A.B. (*Princeton*), M.A.T. (*Oberlin*), Ph.D. (*Wash.*), Assistant Professor.

Reginald C. Terry, B.A. (*Leicester*), M.A. (*Bristol*), Ph.D. (*London*), Assistant Professor.

Bruce E. Wallis, B.A. (*Rutgers*), M.A. (*Harvard*), Ph.D. (*Princeton*), Assistant Professor.

Trevor L. Williams, B.A., M.A. (*Manchester*), Ph.D. (*Wales*), Assistant Professor.

Edward R. Zietlow, B.A. (*Dakota Wesleyan*), M.A. (*Boston*), Ph.D. (*Wash.*), Assistant Professor. (Leave of absence 1974-75.)

PREREQUISITES

All students entering the University for the first time are required either (i) to present a passing grade in the British Columbia Scholarship Examination in English Composition or, if transferring from another post-secondary institution, a passing grade in a course equivalent to English 111 and one of English 115, 121, 122; or (ii) to pass the University's Qualifying Examination in the use of English. The Qualifying Examination may be written during the period of June 15 to August 30 at the English Department in the Sedgewick Building, Monday through Friday, between the hours of 9:00 a.m. and 2:00 p.m. Alternatively, students may sit the examination on the Saturday before Registration Week at the time and place specified in instructions issued by the Registrar's Office. The examination will consist of one essay to be chosen from a wide list of subjects. The results will be posted before registration. Students who fail the Qualifying Examination will register in English 111 and one of English 115, 121, 122. Students who fail the Qualifying Examination and whose first language is not English, may be required to take Linguistics 099. Students who pass the examination or who have passed the British Columbia Scholarship Examination in English Composition, and who wish to pursue studies in English will normally register in English 121 and 122. No student may register for more than 1½ units of First Year English in the first term. However, students may register in September for 3 units of First Year English to be taken in the second term, provided permission is obtained from the Director of Freshman English.

English 121-122 (or its equivalent elsewhere) is prerequisite to all other English courses, except that, in special circumstances and with the permission of the Department, students who have distinguished themselves in English 115 may be allowed to proceed to Second Year English courses. Students who pass a Qualifying Examination, or who are exempted from it, may plan to take English 115 as an elective, but *not* English 111.

English 200, 201, 203, 204, or 205 is prerequisite for all English courses numbered 350 or above, except where otherwise indicated. English 201, 203, 204, or 205 may be substituted for English 200 by all students who do not wish to major or honour in English. English 201 and English 203 may also be taken for additional credit by students who must enrol in English 200 or in both English 204 and English 205.

Students who demonstrate that they have mastered the material normally covered in any course listed below may be permitted to enrol in courses for which that course is a prerequisite. In particular, students who elect English 201 or 203 instead of 200, or both 204 and 205, and who subsequently desire to major or honour in English, may take a comprehensive examination to prove their competence in the field covered by English 200. This examination will normally be given at the beginning of the aca-

demical year; those who pass will be considered to have satisfied the prerequisite for which English 200 is normally required, but no units of credit for 200 will be assigned. English 204 and 205 may not be challenged. However, if a student has taken either 204 or 205, he may challenge the course not taken in order to complete the 204/205 prerequisite for General, Major or Honours programmes. No credit for the challenged course will be assigned.

All students who are likely to take more than two senior English courses, i.e. courses numbered 350 and above, are advised to take English 200 or both English 204 and English 205.

Every student is required to own a good dictionary, e.g., *The Concise Oxford Dictionary*, *The American College Dictionary*, *Webster's Collegiate Dictionary*, *Dictionary of Canadian English*, *The Senior Dictionary*, *The Random House Dictionary of the English Language* (College Edition).

GENERAL

Students wishing to take English as one of the fields of concentration in their General programme should take in their First Year: 3 units from English 115, 121, or 122; Second Year: English 200, 201, 203, 204, 205 or 210; Third and Fourth Years: a total of 9 units in English courses numbered 350 and above. Students desiring advice about their choice of courses are invited to see the secretary of the Department, who will arrange consultation with departmental advisors.

MAJOR

Course Structure for English Majors:

- (a) At least one course (3 units) from: 200, 201, 203, 204, 205, 210. Students planning to major in English are strongly encouraged to take English 200, or 204/205.
- (b) At least 3 units from: 351, 352, 413, 419.
- (c) At least 1½ units in addition to (b) requirement, from courses in literature before 1700.
- (d) At least 1½ units from courses in literature covering the period 1700-1800.
- (e) At least 1½ units from literature 1800-1900.

Total required units to be chosen from the structure, beyond Second Year: 7½ units.

All students wishing to major in English must demonstrate an adequate reading knowledge of a language other than English, acceptable to the Department. This requirement may normally be satisfied either by courses at the Second Year level, or by authorized translation tests.

HONOURS

The Honours Programme allows students of proven ability to study English Language and Literature more comprehensively than is possible in the General or Major programmes. Courses range more widely over the whole field of English studies, and the approach within the special Honours courses is more intensive. These classes are normally small enough to meet as seminar groups. Individual tutors are assigned to offer guidance on each student's requirements. Students who take a special interest in English Language or Literature, or who are contemplating post-graduate study in English, are strongly advised to enrol in the Honours rather than in the General or Major programmes. Those who contemplate an Honours programme are strongly advised to take English 245 in their Second Year, if possible.

Prerequisites for admission to Third Year Honours include a First or high Second Class mark in English 200 or in English 204 and/or English 205, and the approval of the Head of the Department. In the last three years candidates will offer at least 45 units of credit of which 30 must be English courses as specified below. In their Third and Fourth Years, they are also required to take 6 units, consisting of the following English courses: 440: *The History of the English Language*; 445 and 446: *Honours Seminars*; 499: *Graduating Essay or Directed Reading*.

The programmes of Honours students are subject to the approval of the Head of the Department, and the choice of electives is subject to modification in the light of a student's entire programme. From 24 units of electives, 18 units must be taken from

English courses numbered 350 and above. A normally comprehensive programme would include Chaucer or at least one medieval course, Shakespeare, and adequate representation of the Renaissance, 18th and 19th Centuries. Special counselling for students entering the Honours programme, as well as for those already enrolled in it, will be offered at duly announced times in the Second Term and before and during Registration.

At the end of the Fourth Year there will be an interview, at which students may be required to defend their Graduating Essay or discuss the work undertaken for their Directed Reading project.

All students wishing to honour in English must demonstrate an adequate reading knowledge of a language other than English, acceptable to the Department. This requirement may normally be satisfied either by courses at the Second Year level, or by authorized translation tests.

SUGGESTED ELECTIVES

The Department encourages its students to take elective courses supportive to their General, Major or Honours programmes. In making their choice of electives, students may wish to give special consideration to: Classics 100, 200; History 220; History in Art 120, 221; Philosophy 100, 102; as well as to courses in the literature of other languages.

UNDERGRADUATE COURSES

Unless indicated otherwise, courses begin in September and end in April.

FIRST YEAR

Students who pass a qualifying examination may elect to take one or two of English 115, 121, 122 and after consultation English 204 or 205. At least 3 units of First Year English is prerequisite to future work in the Department.

Every student is required to own a good dictionary.

ENGL 111 (formerly one-half of 110). (1½) Basic Composition

Emphasis will be placed on problems in writing through a close analysis of students' own work and the study of prose essays.

Compulsory for students who fail the Qualifying Examination and open to students who have passed the Qualifying Examination only upon request for transfer from their First Year instructor.

Members of the Department. September-December. Also January-April. (3-0)

ENGL 115 (formerly one-half of 110). (1½) College Composition

An examination in depth and detail of English prose style. In addition to the study of prose fiction, attention will be paid to the writing and documenting of research papers, to logical thinking in exposition, and to the effective presentation of ideas in exposition.

Members of the Department. September-December. Also January-April. (3-0)

ENGL 121 (formerly one-half of 120). (1½) Literature of English Speaking Countries: Prose Fiction

A study of literary genres, focusing upon the Short Story and the Novel, with attention to the writing of critical essays.

Individual instructors, with the option of substituting up to two works of their own choice, will select texts from the following list: Mizener, *Modern Short Stories*; Timko and Oliver; *38 Short Stories*; Dickens, *Great Expectations*; Eliot, *The Mill on the Floss*; Faulkner, *As I Lay Dying*; Hardy, *Tess of the d'Urbervilles*; James, *The Turn of the Screw*; Lawrence, *Sons and Lovers*; Moore, *The Lonely Passion of Judith Hearne*; Richler, *The Apprenticeship of Duddy Kravitz*.

Members of the Department. September-December. Also January-April. (3-0)

**ENGL 122 (formerly one-half of 120). (1 ½) Literature of English Speaking Countries:
Poetry and Drama**

A study of literary genres, focusing upon Poetry and Drama, with attention to the writing of critical essays.

Individual instructors, with the option of substituting up to two works of their own choice, will select texts from the following list: Geddes, *Twentieth Century Poetry and Poetics*; *The Norton Anthology of Poetry* (Shorter ed.); Beckett, *Waiting for Godot*; Brecht, *Galileo*; Corrigan, ed., *Masterpieces of British Drama—the Nineteenth Century*; Ibsen, *Hedda Gabler*; Miller, *The Crucible*; Pinter, *The Caretaker*; Reinert, ed., *Modern Drama*; Shakespeare, *Coriolanus*, *Othello*; Sophocles, *Oepidus Rex*; Stoppard, *The Real Inspector Hound*.

Members of the Department. September-December. Also January-April. (3-0)

SECOND YEAR

ENGL 200. (3) British Literature from the Elizabethan to the Romantic Period

Essays will be required.

Open to all students, but strongly recommended to those who wish to major or honour in English.

Texts: *The Norton Anthology of English Literature* (2 vols.); other texts to be announced.

Dr. T. Cleary, Dr. P. Grant, Dr. C. Lambertson, Dr. S. Macey, Dr. F. Mayne, Dr. J. Peter, Dr. B. Wallis. (3-0; 3-0)

ENGL 201. (3) Studies in Modern Literature

The emphasis will be upon themes important in twentieth century literature.

Authors to be studied may include Shakespeare, Joyce, Forster, Fitzgerald, Hardy, Hemingway, Camus, Cary, Beckett, Lawrence, Conrad, Tolkien, Bellow, T. S. Eliot, Patrick White.

Dr. N. Alford, Dr. T. Cleary, Dr. M. Faber, Mr. G. Forbes,
Dr. N. Rowen, Dr. T. Williams. (3-0; 3-0)

ENGL 203. (3) An Introduction to American Literature

A survey designed both for those who will continue in American studies and those who will not. Emphasis is on the continuity of the American literary tradition. Readings from the set text will be chosen by the instructor and supplemented by additional readings in the major writers such as Whitman, Hawthorne, Twain, Henry James, Faulkner.

Text: *The American Tradition in Literature*, eds. Bradley, Beatty and Long, (Norton), 3rd ed., shorter.

Dr. N. Smith. (3-0; 3-0)

ENGL 204. (3) British Literature from Chaucer to Milton

In addition to providing an introduction to the major figures, themes and movements of the period, the course may include an extended study of a special topic. Essays will be required.

Among the major authors to be studied are Chaucer, More, Sidney, Spenser, Marlowe, Shakespeare, Bacon, Donne, and Milton. Texts will be announced.

Not open to students with credit for English 200.

Dr. R. Schuler. (3-0; 3-0)

ENGL 205. (3) British Literature from the Restoration to 1900

In addition to providing an introduction to the major figures, themes and movements of the period, the course will include an extended study of a special topic. Essays will be required.

Among the major authors to be studied are Blake, Swift, Pope, Dryden, Johnson, Wordsworth and Coleridge.

Not open to students with credit for English 200.

Dr. D. Thatcher. (3-0; 3-0)

ENGL 210 (formerly 410). [3] Backgrounds to English Literary Tradition

A study of the main currents of thought contributing to late Medieval and Renaissance Literature. The development of literary vocabulary in the Judaeo-Christian tradition.
Dr. D. Jeffrey. (3-0; 3-0)

ENGL 245. [3] Practical Criticism

A seminar designed to sharpen reactions to a writer's style, and to examine how the design of his thoughts creates his meaning. Discussions centre upon the way a particular poem, novel or play works in its details and in its overall patterning. Prospective Honours students are strongly advised to take this course in their Second Year. Students will be allowed to select this course only if they have the approval of the Department.

Dr. A. Jenkins, Dr. C. Johnson. (3-0; 3-0)

THIRD AND FOURTH YEARS

New 1½ unit courses are numbered 350 and above for convenience, and are at the same level as upper-division courses numbered 400 and above.

ENGL 300. [3] English Composition

The study of the principles of good writing and the development of them by writing weekly essays. For credit in the Faculty of Arts and Science, as a free elective only, under the conditions specified in last paragraph on page 56.

Texts: To be announced by instructor.

Dr. C. Lambertson. (3-0; 3-0)

ENGL 301. [3] Children's Literature

A survey of children's literature, its sources and development, with emphasis upon the study of selected 19th and 20th century works. The course is designed to develop critical awareness of excellence in children's books and give an idea of the resources at present available in this field. One essay of approximately 2000 words, and one or two short reports or surveys (500-1000 words) will be required in each term. For credit in the Faculty of Arts and Science, as a free elective only, under the conditions specified in last paragraph on page 56.

Prerequisite: Permission of the Head of the Department.

Dr. L. Adey. (3-0; 3-0)

ENGL 351 (formerly one-half of 443). [1½] The Canterbury Tales

An introductory study of Chaucer's poetry focusing specifically on *The Canterbury Tales*.

Dr. D. Jeffrey. September-December only. (3-0)

ENGL 352 (formerly one-half of 443). [1½] Chaucer Studies

A survey of Chaucer's poetry exclusive of *The Canterbury Tales*, notably *Troilus and Criseyde*, *The Book of the Duchess*, *The House of Fame*, *The Parliament of Fowles*, and the short poems.

Prerequisite: English 351.

Dr. A. Jenkins. January-April only. (3-0)

ENGL 353 (formerly 407 and 444). [1½] Studies in Medieval English Literature

A study of the major literary works and genres of the medieval period (excluding Chaucer). The course will centre on specific genres (romance, drama, lyric, etc.), at the discretion of the instructor, with annual advertisement.

Dr. D. Jeffrey, Dr. A. Jenkins. January-April only. (3-0)

ENGL 360 (formerly 414). (1½) Special Studies in Shakespeare

Intensive study of a few plays, with emphasis on related critical issues. Students contemplating this course should have a general knowledge of Shakespeare's work.

Prerequisites: English 200, 201, 203, 204 or 205, together with an adequate existing knowledge of Shakespeare's plays.

(Not offered in 1974-75.)

(3-0)

ENGL 361 (formerly 418). (1½) The Metaphysical Poets

Major emphasis will be on Donne, Herbert, Marvell, Vaughan and Traherne. Special attention will be given to the secular love lyric, as well as to the influence of Christian theology and related philosophical traditions.

Prerequisites: English 200, 201, 203, 204 or 205.

(Not offered in 1974-75.)

(3-0)

ENGL 362. (1½) The Idea of the State in Renaissance Literature

The aim of this course is to increase appreciation of Renaissance literature by concentrating upon specific related issues of the age: right rule, policy, the individual's place in society, the ordering of the state, and the relationship of the temporal realm to the divine realm. Formal strategies in the literature of the Renaissance continually derive from these issues. To concentrate upon "the idea of the state," and all that it entails, will sharpen the awareness of the manner in which Renaissance literature achieves its aesthetic dimensions.

Prerequisites: English 200, 201, 203, 204 or 205.

(Not offered in 1974-75.)

(3-0)

ENGL 363. (1½) Magic, Science & Religion in Renaissance Literature

A study of late sixteenth- and seventeenth-century literature in light of the interrelationships between contemporary magic, science, and theology. A good deal of attention will be paid to this background, but the ultimate purpose of the course is the fuller understanding of the literary texts themselves. Authors to be studied include Marlowe, Shakespeare, Donne, Jonson, Bacon, Browne, Vaughan, Burton, and Milton.

Prerequisites: English 200, 201, 203, 204 or 205.

Texts: To be announced.

Dr. R. Schuler.

January-April only. (3-0)

ENGL 364 (formerly 411). (1½) Elizabethan and Jacobean Drama

Main emphasis is on such major Elizabethan and Jacobean dramatists as Marlowe, Webster, Jonson, Middleton and Ford.

Dr. M. Best.

January-April only. (3-0)

ENGL 370 (formerly 421). (1½) Blake and the Age of Sensibility

Readings in Thomson, Collins, Gray, Cowper and Burns will lead up to a study of William Blake.

Prerequisites: English 200, 201, 203, 204 or 205.

(Not offered in 1974-75.)

(3-0)

ENGL 371 (formerly 422). (1½) Restoration and 18th Century Drama

A study of the major types of drama: Restoration comedy and tragedy, heroic drama "laughing and sentimental" comedy of the 18th century, ballad, opera, etc.

Prerequisites: English 200, 201, 203, 204 or 205.

(Not offered in 1974-75.)

(3-0)

ENGL 385. (1½) Studies in 19th Century English Literature

This course will focus on two central preoccupations of the Victorian era, the problem of the loss of faith in an age of transition and the question of the nature and role of the artist in a changing society. Attention will mainly be centred on Tennyson, Browning, and Arnold, but there will be introductory readings on Carlyle, Ruskin and Mill, and other significant prose writers of the age.

Prerequisites: English 200, 201, 203, 204 or 205.

Dr. N. Rowen.

September-December only. (3-0)

ENGL 386 (formerly part of 431). (1 ½) The Artist in 19th Century Society

Various conceptions of the social role of the poet and other artists will be explored through studies of poems and/or critical writings by Tennyson, J. S. Mill, Ruskin, D. G. Rossetti, Morris, Arnold, Browning, Hopkins and Pater.

Prerequisites: English 200, 201, 203, 204 or 205.

(Not offered in 1974-75.)

(3-0)

ENGL 387 (formerly part of 431). (1 ½) The Divided Self in Victorian Literature

The focus will be on poetry and criticism reflecting the writer's personal sense of the dilemma concerning Man's nature and purpose, arising from the conflict between traditional values and the belief in scientific or economic progress. Works by Carlyle, Newman, Macaulay, J. S. Mill, Tennyson, Browning, Arnold, Clough and Meredith will be studied.

Prerequisites: English 200, 201, 203, 204 or 205.

(Not offered in 1974-75.)

(3-0)

ENGL 389 (formerly 433). (1 ½) Anglo-Irish Literature

A study of the literature of the Irish Renaissance.

Texts by all or most of the following authors will be prescribed: W. B. Yeats (as dramatist and poet), James Joyce, John M. Synge, George Moore, James Stephens, Austin Clarke, Frank O'Connor, Standish O'Grady, Sean O'Casey, Lady Gregory and "AE."

January-April only. (3-0)

ENGL 390 (Linguistics 390). (3) The Growth and Structure of Modern English

A descriptive approach to the structure of Modern English, designed especially for those students who are interested in the application of modern linguistic science, particularly structural and transformational theory, to an understanding of the language. Topics covered will include the following: social and regional dialects and their significance; theories of grammatical analysis; causes of linguistic change; the history of the English language from its beginnings to the present day, including Canadian English.

This course is divided into 3 sections. Section 1 is for those students who have had previous courses in Linguistics. Sections 2 and 3 are for those students who have had no previous courses in Linguistics.

Texts: See Linguistics 390.

Dr. J. Kess (Linguistics), Section 01.

Dr. M. Scargill (Linguistics), Section 02 and 03.

(3-0; 3-0)

ENGL 391. (1 ½) Studies in Literary Genre

Prerequisites: English 200, 201, 203, 204 or 205.

(Not offered in 1974-75.)

(3-0)

ENGL 392. (1 ½) Studies in a Major Figure

This course is intended to provide opportunities for occasional offerings of single authors who do not justify permanent representation as do Chaucer, Shakespeare, Spenser, and Milton.

(Not offered in 1974-75.)

(3-0)

ENGL 393. (1 ½) Myth and Literature

An investigation of what happens to a basic myth or legend as it is used and re-used by different writers in various contexts. The course would focus on one or two myths such as, for example, the Arthurian Legend and the quest motif.

Prerequisites: English 200, 201, 203, 204 or 205.

(Not offered in 1974-75.)

(3-0)

ENGL 394. (1½) Thematic Approaches to Literature: I

This year the thematic approach will be to *Women in Literature*.

Selected texts will present women in relation to stereotypical conceptions of "a woman's place." The aim of the course will be to examine the relevance of such considerations *vis à vis* the work of art. Emphasis will be on the nineteenth century novel. Prerequisites: English 200, 201, 203, 204 or 205.

Dr. C. Rooke.

September-December only. (3-0)

ENGL 395. (1½) Thematic Approaches to Literature: II

This year the subject will be *Literature and Psychology*.

The aim of this course is to enhance the student's appreciation of literature by exploring literary texts along psychological lines. The course will take up such problems as the psychodynamics of literary response, the literary and psychological function of formal structures, the motivation of character, and the relationship of various critical schools to the school of psychological criticism.

Background readings will include works by Freud, Brenner and Guntrip. Literary texts will include works by Chaucer, Shakespeare, Goethe, James, Beckett, and Faulkner.

Dr. M. Faber.

January-April only. (3-0)

ENGL 400. (3) Advanced English Composition

This course offers students practice in the writing and criticism of essays and prose composition in general. Competence in the English language is a prerequisite.

Texts: A good dictionary, such as *The Concise Oxford, Webster's Collegiate, Random House; Rogel's Thesaurus*; an appropriate English handbook; a selected book of essays.

Dr. W. Benzie.

(3-0; 3-0)

ENGL 413. (3) Shakespeare Survey

Lectures on the development of Shakespeare's art in the histories, comedies and tragedies.

Texts: To be announced.

Dr. M. Best, Dr. P. Grant.

(3-0; 3-0)

ENGL 419. (3) Spenser and Milton: The Renaissance Epic

The course concentrates on the major poems of Edmund Spenser and John Milton in relation to the traditions of Epic poetry in Renaissance England.

Prerequisites: English 200 or 201 or 204 and/or 205.

Texts: To be announced.

Dr. P. Grant.

(3-0; 3-0)

ENGL 420. (3) Literature of the Restoration and the Augustan Periods

An examination of the literature of the Restoration and Eighteenth Century in the light of the social, political and economic background against which it develops. Particular emphasis will be placed on Restoration Comedy, Dryden, Pope, Swift and Dr. Johnson.

Dr. S. Macey.

(3-0; 3-0)

ENGL 423. (3) The beginning of the British Novel in the 17th and 18th centuries

Main emphasis is placed on the eighteenth century novel — with some attention to the social and intellectual background of the period, when this appears to illuminate the novels.

Authors may include Bunyan, Defoe, Richardson, Fielding, Sterne, MacKenzie, Smollett, Burney, and Austen.

Dr. P. Köster.

(3-0; 3-0)

ENGL 424. (3) The British Novel in the 19th Century

Authors to be studied may include Mary Shelley, Austen, Scott, Brönte, Disraeli, Collins, Dickens, Thackeray, Eliot, Trollope, Meredith, Hardy, Butler, and Stevenson.

Dr. R. Terry.

(3-0; 3-0)

ENGL 426. (3) Problems in American Literature

The experiences of isolation and constriction in North America have been repeatedly dramatized by novelists and film-makers. The course will consider different projected images of this phenomenon; the difficulties of individuals relating will be seen dramatized against urban anonymity, small town scrutiny and romanticized pastoral community. It is hoped that some definition of contrasting Canadian and American attitudes to similar phenomena will emerge from the study of work from both sides of the border.

Texts include: Dreiser, *Sister Carrie*; Edith Wharton, *Ethan Frome*; Ross, *As For Me and My House*; Anderson, *Winesburg, Ohio*; Margaret Laurence, *Jest of God*; Malamud, *The Assistant, The Fixer*; Brian Moore, *The Luck of Ginger Coffey*; Carrier, *Is It the Sun, Philibert?*; Gabrielle Roy, *Where Nests the Water Hen*; Marie-Claire Blais, *A Season in the Life of Emmanuel*; Callaghan, *The Loved and the Lost*; Ellison, *Invisible Man*; MacLennan, *Two Solitudes*; Ringuet, *Thirty Acres*; Steinbeck, *The Grapes of Wrath*; Margaret Atwood, *The Edible Woman*.

Dr. C. Partridge.

(3-0; 3-0)

ENGL 427. (1 1/2) Nineteenth Century American Prose and Poetry

A survey of American non-fiction prose and poetry, including Poe's poetry and criticism; the Transcendentalists, with emphasis on Emerson, Thoreau, and Whitman; the Brahmin critics, with emphasis on Holmes, Lowell, Howells, and Jones; and concluding with the poems of Emily Dickinson and the prose of Henry Adams.

(Not offered 1974-75.)

(3-0)

ENGL 428. (3) American Fiction to 1900

A study of major American fiction in the nineteenth century. The first term will be a survey of the period from Brockden Brown, Cooper and Hawthorne to Crane, Norris and Dreiser; the second term will be an intensive study of the development and achievement of three major figures: Melville, Twain and James.

(Not offered 1974-75.)

(3-0; 3-0)

ENGL 429. (3) Twentieth Century American Fiction

The primary aim of the course is critical study of major texts. The secondary aim is to relate them to the social and intellectual background of the period.

Authors will include: Anderson, Dreiser, Fitzgerald, Hemingway, Faulkner, Ellison, West, Bellow, Malamud, Morris, Styron, O'Connor, Salinger, Updike and Barth.

Dr. C. Rooke.

(3-0; 3-0)

ENGL 430. (3) The Romantic Period (1790-1830)

Chiefly Wordsworth, Coleridge, Byron, Shelley and Keats. Some attention is paid to the prose writers of the period.

Mr. G. McOrmond.

(3-0; 3-0)

ENGL 434. (3) British Poetry from 1914 to the Present Day

This course will include discussion of the main poetic movements of the period, together with explanations of the work of individual poets, including Wilfred Owen, T. S. Eliot, David Jones, Dylan Thomas, W. H. Auden, W. B. Yeats, D. H. Lawrence, Hugh MacDiarmid, and others.

Mr. H. Summerfield.

(3-0; 3-0)

ENGL 435. (3) Modern American Poetry

Detailed study of the poetry of Stevens, Pound, Hart Crane, W. C. Williams, the Fugitives, Berryman, Robert Lowell, as well as reading of examples of the work of such poets as Marianne Moore, Elizabeth Bishop and Sylvia Plath. Provision will be made for consideration of recent developments in the Black Mountain, Beat Poets and other practitioners of open form.

Dr. C. Johnson.

(3-0; 3-0)

ENGL 436. (3) 20th Century British Fiction

Close study of one or more of the works of the prominent writers: Conrad, James Joyce and D. H. Lawrence, and of some of their contemporaries and successors. Emphasis is critical rather than historical. Essays are required and students are urged to form their own judgments with little reference to the works of critics.

The majority of the texts are to be announced and will include some of the following authors: E. M. Forster, Virginia Woolf, Aldous Huxley, Evelyn Waugh; Graham Greene, Joyce Cary, Samuel Beckett, Angus Wilson, Alan Sillitoe, Kingsley Amis, William Golding.

Dr. J. Peter.

(3-0; 3-0)

ENGL 437. (3) British and American Drama Since World War I

A study of the play as a literary form and an examination of styles, techniques, themes and moods which have been explored in twentieth-century drama, including a brief historical survey of 19th century theatre. Some attention will be paid to the techniques of acting and direction, theatre design, and audience requirements which have influenced the playwright; however, this is not a practical theatre course. Essay topics will encourage development of the student's own critical ability. Throughout, concentration will be on the text rather than on the works of critics.

Texts: Ibsen, *The Wild Duck*; Strindberg, *Miss Julie*; Shaw, *Pygmalion*, *Heartbreak House*; Maugham, *The Constant Wife*; Coward, *Private Lives*; O'Casey, *Juno and the Paycock*; Eliot, *The Cocktail Party*; Fry, *The Lady's Not for Burning*; Beckett, *Waiting for Godot*; Behan, *The Quare Fellow*; Osborne, *Look Back in Anger*; Delaney, *A Taste of Honey*; Wesker, *Roots* (in *Wesker Trilogy*); Pinter, *The Caretaker*; N. F. Simpson, *One Way Pendulum*; Arden, *Sergeant Musgrave's Dance*; Shaffer, *The Royal Hunt of the Sun*; Tom Stoppard, *Rosencrantz and Guildenstern are Dead*; O'Neill, *The Iceman Cometh*; *The Emperor Jones*; Odets, *Awake and Sing*; Steinbeck, *Of Mice and Men*; Rice, *The Adding Machine*; Wilder, *Our Town*; Maxwell Anderson, *Winterset*; Miller, *A View from the Bridge*; Albee, *Who's Afraid of Virginia Woolf?*; Auden, *The Ascent of F.6*.

Background reading: Brecht, *The Caucasian Chalk Circle*; Chekov, *Uncle Vanya*; Ionesco, *The Bald Soprano*.

Dr. F. Mayne, Dr. D. Thatcher.

(3-0; 3-0)

ENGL 438. (3) Canadian Literature

A survey of Canadian creative literature from 1770 to the modern period. This course will concentrate on keynote figures who have moulded the Canadian sensibility and will include (in translation) literature written in and about French Canada.

Authors will include Leacock, Ostenso, Callaghan, Roy, Buckler, E. Wilson, M. Laurence, as well as a selection of Canadian poets.

Dr. R. Lawrence.

(3-0; 3-0)

ENGL 439. (3) Commonwealth Literature

Three regions are designated for detailed study—Australia, the British West Indies and Black Africa. The course will concentrate on twentieth-century novels, short stories and poetry; it will attempt to discuss two factors—(a) the essential value of the particular literary works, (b) cultural problems of identity and self-expression confronting both creative artists and people in the new-world or newly independent territories. Approximately one third of the course will be devoted to each territorial area, and it is hoped that equal attention will be given to the three literary genres.

Texts include: Kencally, *Bring Larks and Heroes*; Stow, *To the Islands*; White, *Riders in the Chariot*; Mulgan, *Man Alone*; Sargeson, *That Summer*; Naipaul, *A House for Mr. Biswas*; Achebe, *Things Fall Apart*; Okara, *The Voice*; Ngugi, *Weep Not, Child*.

Dr. C. Partridge.

(3-0; 3-0)

ENGL 440. (1½) The History of the English Language

A survey of the development of the English Language from its Germanic origins to the 19th century, with particular reference to semantic, etymological, phonetic,

morphological and syntactic modifications of primary importance to an understanding of English literature.

Prerequisites: Honour standing in Third or Fourth Year.

Texts: A. C. Baugh, *A History of the English Language*.

Dr. R. Leslie. September-December only. (3-0)

ENGL 441. (3) Old English Literature

A study of the language and major literary texts of the Anglo-Saxons, including Beowulf.

Dr. R. Leslie (first term).

Mr. A. Edwards (second term). (3-0; 3-0)

ENGL 445 (formerly one-half of 446). (1 1/2) Honours Seminar.

The History of English Prose Style

A historical and critical survey of English prose style from Malory to the present day. This course illustrates, through the study of representative prose passages, the interplay between the mind of the writer and the age he lives in.

Not open to students with credit for English 446 (3).

September-December only. (3-0)

ENGL 446. (1 1/2 formerly 3) Third Year Honours Seminar

A seminar in the history of critical theory, with a study of its relation in practice to specific genres and styles.

Text: *Criticism: The Major Texts*, ed. Walter J. Bate.

Dr. P. Köster. January-April only. (3-0)

ENGL 448. (3) Studies in Canadian Literature

Students will read the best poetry, fiction, drama, and literature of ideas written in Canada since World War II, including the works of several leading Quebecois writers in translation. (3-0; 3-0)

ENGL 490. (3) Directed Reading in English

Students must obtain the consent of the Head of the Department before registering for this course.

ENGL 499. (1 1/2) Graduating Essay or Directed Reading Project in Honours

The graduating essay or directed reading project will be done under the guidance of an individual tutor assigned in Third and Fourth years.

Prerequisite: Honour standing in Fourth year. (0-0-2; 0-0-2)

GRADUATE COURSES AND SEMINARS

ENGL 500. (1 1/2 formerly 3) Introduction to Bibliography and Methods of Research

Dr. P. Köster. (3-0)

ENGL 501 (formerly one-half of 500). (1 1/2) Introduction to Research and Criticism

Dr. J. Hayman. (3-0)

ENGL 510. (1 1/2 formerly 3) Studies in Old English Literature I

(3-0)

ENGL 511 (formerly one-half of 510). (1 1/2) Studies in Old English Literature II

(3-0)

ENGL 515. (1 1/2 formerly 3) Studies in Middle English Literature I

Dr. R. Leslie. (3-0)

ENGL 516 (formerly one-half of 515). (1 1/2) Studies in Middle English Literature II

(3-0)

ENGL	520. (1 ½ formerly 3)	Studies in Renaissance Literature I	(3-0)
ENGL	521 (formerly one-half of 520).	(1 ½) Studies in Renaissance Literature II	(3-0)
ENGL	530. (1 ½ formerly 3)	Studies in the Literature of the 17th Century I	(3-0)
ENGL	531 (formerly one-half of 530).	(1 ½) Studies in the Literature of the 17th Century II	(3-0)
ENGL	540. (1 ½ formerly 3)	Studies in the Literature of the 18th Century I	(3-0)
ENGL	541 (formerly one-half of 540).	(1 ½) Studies in the Literature of the 18th Century II	(3-0)
ENGL	550. (1 ½ formerly 3)	Studies in the Literature of the 19th Century I	(3-0)
ENGL	551 (formerly one-half of 550).	(1 ½) Studies in the Literature of the 19th Century II	(3-0)
ENGL	560. (1 ½ formerly 3)	Studies in the Literature of the 20th Century I	(3-0)
ENGL	561 (formerly one-half of 560).	(1 ½) Studies in the Literature of the 20th Century II	(3-0)
ENGL	570. (1 ½ formerly 3)	Studies in American Literature I	(3-0)
ENGL	571 (formerly one-half of 570).	(1 ½) Studies in American Literature II	(3-0)
ENGL	580. (1 ½ formerly 3)	Studies in Commonwealth Literature I	(3-0)
ENGL	581 (formerly one-half of 580).	(1 ½) Studies in Commonwealth Literature II	(3-0)
ENGL	585. (1 ½)	Studies in Canadian Literature I	(3-0)
ENGL	586. (1 ½)	Studies in Canadian Literature II	(3-0)
ENGL	590. (3)	Directed Reading	(3-0)
ENGL	599. (Credit to be determined)	M.A. Thesis	
ENGL	699. (Credit to be determined)	Ph.D. Dissertation	

ENVIRONMENTAL STUDIES PROGRAMME

Programme Chairman, 1974-75: Peter E. Murphy, B.Sc. (L.S.E.), Teachers Dip. (London), M.A., Ph.D. (Ohio St.), Assistant Professor, Geography.

The interdisciplinary Environmental Studies Programme is an experimental programme designed to provide the student with a concentration of courses in the area of environmental topics. The programme is structured to serve the interests of students with a general academic interest in environmental topics and students with a professional interest in the environment.

Two approaches to this interdisciplinary programme are offered: a conceptual one, which gives an introduction to environmentally-related areas of a range of disciplines, and a topical one, which focuses a selection of courses on to a particular problem area.

The requirement basic to both approaches is a majors programme leading to either: a B.Sc. in Biology, Chemistry, Geography, Mathematics, Physics, or Psychology, or a B.A. in Anthropology, Economics, Geography, Political Science, Psychology or Sociology. In addition, the requirements for one of the Conceptual or Topical Options given in the following outlines must be met in order to obtain a notation on the student's permanent record showing completion of the programme.

A student interested in entering the programme should contact a member of the Environmental Studies Programme Committee for counselling, in order to obtain approval of his specific programme.

Martin B. Hocking, B.Sc. (Alta.), Ph.D. (Southampton), Assistant Professor, Chemistry, Programme Vice-Chairman.

Marcus A. M. Bell, B.S.F. (Brit. Col.), M.F. (Yale), Ph.D. (Brit. Col.), R.P.F., Associate Professor, Biology.

Alan R. Drenson, B.A., M.A. (Wash.), Ph.D. (Ore.), Assistant Professor, Philosophy.

Charles E. Picciotto, A.B., M.A., Ph.D., (Calif.), Assistant Professor, Physics. (On study leave 1974-75.)

Gerald R. Walter, B.A., M.A., Ph.D. (Calif.), Assistant Professor, Economics.

TOPICAL OPTION

URBAN ENVIRONMENT

Requirements:

1. Fifteen units selected from one of the lists below, and not forming a part of the majors requirements.

SOCIAL SCIENCE EMPHASIS

Anthropology 401 (1½) Cultural Ecology (Prerequisites: Anthropology 100, or 200, or consent.)

Biology 306 (1½) Ecology (Prerequisites: Biology 150, or equivalent.)

Biology 316 (1½) Environmental Issues (Prerequisites: 2 years University or equivalent.)

Biology 427 (1½) Population Ecology (Prerequisites: Biology 306, or consent.)

Economics 200 (3) Introduction to Economics

Economics 412 (1½) Urban Economics (Prerequisites: Economics 200 and consent.)

Economics 414 (1½) Regional Economics (Prerequisites (Economics 200 and consent.)

Geography 340 (3) Introduction to Urban Geography

Geography 444 (1½) Urban Transportation and Land Use Planning (Prerequisites: Geography 340 (formerly 305) or consent.)

Geography 446 (1½) Development and Planning of the Urban Region (Prerequisites: Geography 340 (formerly 305) or consent.)

Political Science 454 (1½) Introduction to Local and Regional Government
Political Science 455 (1½) The Government and Politics of Metropolis
Political Science 456 (3) Political Institutions and Public Policy
Psychology 350 (3) Environmental Psychology
Sociology 340 (1½) Demography (Prerequisites: Sociology 100; or consent.)
Sociology 341 (1½) Human Ecology (Prerequisites: Sociology 100; or consent.)
TOTAL UNITS — 30

SCIENCE EMPHASIS

Biology 306 (1½) Ecology (Prerequisites: Biology 150 or equivalent.)
Biology 316 (1½) Environmental Issues (Prerequisites: 2 years University or equivalent.)
Biology 408 (1½) Biology of Pollution (Prerequisites: Biology 203, Biology 206, or consent.)
Chemistry 230 (3) General Organic Chemistry (Prerequisites: Chemistry 120.)
Chemistry 301 (3) Industrial Processes and the Chemistry of Pollution (Prerequisites: Chemistry 120.)
Chemistry 314 (3) Instrumental Analysis (Prerequisites: Chemistry 120, plus Chemistry 230 and consent.)
Economics 430 (3) Economics of Natural Resources and Environmental Policy (Prerequisites: Economics 200 and consent.)
Geography 340 (3) Introduction to Urban Geography
Geography 341 (1½) Industrial Geography
Geography 374 (1½) Biogeography
Geography 375 (1½) Biospheric Resources (Prerequisites: Geography 374, or Biology 306.)
Statistics 253 (3) Introduction to Probability and Statistics (Prerequisites: Mathematics 130, or Mathematics 102/151.)
Physics 310 (3) Physics of the Environment (Prerequisites: Physics 101, 121, or consent.)
TOTAL UNITS — 30

NOTES: It is recommended that where the student finds he has electives available over and above the majors and Environmental Studies Programme requirements, that he take courses in French to obtain some facility in the other national language.

Where two courses cannot both be taken for credit in the department, either would be acceptable alternatives for the Environmental Studies Programme providing later year departmental course prerequisites are met.

CONCEPTUAL OPTION

Requirements:

1. Three units in quantitative concepts and methods, preferably through Math 253 (Introduction to Probability and Statistics), but this requirement may also be met by any of the following: Anth. 416, Biol. 304, Econ. 340/341, Geog. 421, Psych. 300, Soci. 371/372. This requirement may form a part of the majors programme.
2. Fifteen units selected from one of the lists below, and not forming a part of the majors requirements.

SOCIAL SCIENCE EMPHASIS

Anthropology 401 (1½) Cultural Ecology (Prerequisites: Anthropology 100, or 200, or consent.)
Anthropology 418 (1½) Social Change (Prerequisites: Anthropology 100, or 200, or consent.)
Biology 306 (1½) Ecology (Prerequisites: Biology 150 or equivalent.)

Biology 316 (1½) Environmental Issues (Prerequisites: 2 years University or equivalent.)

Chemistry 120 (3) General Chemistry

Economics 412 (1½) Urban Economics (Prerequisites: Economics 200 and consent.)

Economics 414 (1½) Regional Economics (Prerequisites: Economics 200 and consent.)

Geography 350 (3) Introduction to Resource Geography (Prerequisites: Geography 203 and 201, 204, or 205, or consent.)

Physics 103 (3) A Survey of Physics

Political Science 350 (3) Public Administration (Prerequisites: Political Science 200 or consent.)

Psychology 350 (3) Environmental Psychology

Sociology 340 (1½) Demography (Prerequisites: Sociology 100; or consent.)

Sociology 341 (1½) Human Ecology (Prerequisites: Sociology 100; or consent.)

TOTAL UNITS — 27

SCIENCE EMPHASIS

Anthropology 350 (3) Evolution and Adaptation in Human Populations

Bacteriology 200 (3) Introductory Bacteriology

Biology 306 (1½) Ecology (Prerequisites: Biology 150 or equivalent.)

Biology 316 (1½) Environmental Issues (Prerequisites: 2 years University or equivalent.)

Chemistry 301 (3) Industrial Processes and the Chemistry of Pollution (Prerequisites: Chemistry 120.)

Economics 200 (3) Principles of Economics

Geography 350 (3) Introduction to Resource Geography (Prerequisites: Geography 203 and 201, 204 or 205, or consent.)

Physics 310 (3) Physics of the Environment (Prerequisites: Physics 101, 121, or consent.)

Political Science 100 (3) Canadian Government and Politics

Sociology 200 (3) Canadian Society

TOTAL UNITS — 27

NOTES: It is recommended that where the student finds he has electives available over and above the majors and Environmental Studies Programme requirements, that he take courses in French to obtain some facility in the other national language.

Where two courses cannot both be taken for credit in the department, either would be acceptable alternatives for the Environmental Studies Programme providing later year departmental course prerequisites are met.

DEPARTMENT OF FRENCH LANGUAGE AND LITERATURE

Ronald R. Jeffels, C.D., B.A., B.Ed. (*Alta.*), M.A. (*Cantab.*), Associate Professor and Acting Head of the Department.

Olivier M. Abrioux, L. ès L., D.E.S. (*Paris*), Ph.D. (*Aberdeen*), Professor. (On study leave 1974-75.)

Gwladys V. Downes, B.A., M.A. (*Brit. Col.*), D.U. (*Paris*), Professor.

Ralph W. Baldner, A.B. (*Miami U., Ohio*), M.A. (*Vanderbilt*), Ph.D. (*Calif.*), Associate Professor.

P. M. H. Edwards, F.T.C.L., A.R.C.M., L.R.A.M. (*London*), B.A. (*Brit. Col.*), M.A. (*Columbia*), M.A. (*Harvard*), Ph.D. (*Penn.*), Associate Professor.

David A. Griffiths, B.A., M.A. (*Brit. Col.*), D.U. (*Paris*), Associate Professor.

Gérald Moreau, B.A. (*Man.*), M.A. (*Laval*), D.U. (*Poitiers*), Associate Professor.

Jeanne E. Adam, L. ès L. (*Toulouse*), Assistant Professor. (On leave of absence 1974-75.)

Barrington F. Beardsmore, B.A. (*Liverpool*), M.A. (*McMaster*), Ph.D. (*Brit. Col.*), Assistant Professor.

John C. E. Greene, B.A., M.A. (*Alta.*), D. de l'Univ. (*Grenoble*), Assistant Professor. (On study leave 1974-75.)

Elaine Limbrick, B.A. (*London*), D. du III^e cycle (*Poitiers*), Assistant Professor.

Jean-Pierre Mentha, L. ès Sc.Soc. (*Geneva*), M.Ed. (*Brit. Col.*), Assistant Professor.

Derek J. Turton, B.A. (*Leeds*), Cert.Ed. (*Nottingham*), M.Phil. (*Leeds*), Assistant Professor.

Jennifer R. Waelti-Walters, B.A. (*London*), L. ès L. (*Lille*), Ph.D. (*London*), Assistant Professor.

GENERAL, MAJOR AND HONOURS PROGRAMMES

Students wishing to take courses at the Third and Fourth Year level are reminded that they must have the prerequisites of the first two years.

Students wishing to take Third and Fourth Year courses to meet requirements for a B.A. degree on the General, Major or Honours programme, must satisfy the Department that they have satisfactory standing in appropriate courses at the 200 level. Normally the course numbered 302 must be taken in the Third Year.

An Honours programme in French normally requires a total of 63 units over a four-year period. A comprehensive examination, written and oral, is also required (see FREN 490).

Students specializing in French (including Honours), will find that they have sufficient electives to enable them to concentrate in a second field—for example, another language, Classics, English, History, Linguistics. A wise selection of courses is particularly important to those who may wish to enter graduate school, teaching, library work, government service, etc. The Department Head will be happy to assist students with their selection of courses.

PROGRAMMES IN FRENCH

General—First Year: French 180; Second Year: French 285 and 290; Third and Fourth Years: French 302 and six units of French courses numbered above 400.

Major—First Year: French 180; Second Year: French 285 and 290; Third and Fourth Years: French 302 and at least twelve units of French courses numbered above 400.

Honours—First Year: French 180 and one year of Latin (if Latin 12 has not been passed in high school); Second Year: French 285 and 290; Third and Fourth Years: French 302, 402 and 490 and at least 12 more units (French courses numbered above 400), selected with the approval of the Head of the Department.

UNDERGRADUATE COURSES

Unless indicated otherwise, courses begin in September and end in April.

FREN 100. (3) Beginners' French

An intensive introduction to spoken and written French, with emphasis on oral work. Students from this course who are interested in further studies in French will be integrated into the programmes of the Department, proceeding to either French 160 or French 180, according to their achievement.

Prerequisite: not available to students having credit in French 11 or its equivalent.

Texts: Benamou et Ionesco, *Mise en Train*; Benamou et Bosworth, *Travaux pratiques pour accompagner Mise en Train*.

Members of the Department.

(3-1; 3-1)

FREN 160 (formerly 140). (3) Elementary Composition and Oral Practice

Instruction in French grammar and composition, based on a grammar text and on numerous short readings. Regular compositions will be required. One hour a week will be spent in the language laboratory drilling orally basic grammatical patterns.

Prerequisite: French 11.

NOTE: Not open to those who have completed Grade 12 French.

Texts: Bearman, *Lisons les journaux*; Simenon, *La Pipe de Maigret*, Wiley and Grubbs, *Minimum French*.

Members of the Department.

(3-1; 3-1)

FREN 180. (3) French Language and Literature

Study of contemporary French texts, grammar, composition, and pronunciation.

Prerequisite: French 12.

Texts: Anouilh, *Antigone*; Camus, *L'Étranger*; Carlut & Meiden, *French for Oral & Written Review*; Brearley & McBride, *Nouvelles du Québec*; and one other novel. The purchase of the *Dictionnaire moderne* (Larousse) or another good dictionary is strongly recommended.

Members of the Department.

(3-1; 3-1)

FREN 260 (formerly 240). (3) Intermediate Composition and Contemporary Literature

Study of contemporary French and French-Canadian texts, and a review of grammar. Regular composition assignments will be required. One hour a week will be spent in seminar-style oral discussion of texts.

Prerequisite: French 160 or equivalent.

Texts: Carlut and Meiden, *French for Oral and Written Review*; Larousse, *French-English, English-French Dictionary*; G. Simenon, *Maigret et le pendu de Saint-Pholien*; G. Bessette, *Le Libraire*.

Members of the Department.

(3-1; 3-1)

FREN 280. (3) French Language and Literature

This course is given in French. Literary texts are studied and there are frequent written assignments during the term. The formal grammar work consists of a continuous review of essential points in order to aid the student in his writing.

Prerequisite: French 180 or equivalent.

Texts: Carlut and Meiden, *French for Oral and Written Review*; Sartre, *Huis Clos*, (Livre de poche); Mauriac, *Thérèse Desqueyroux*, (Livre de poche); Gide, *La Symphonie pastorale*, (Livre de poche); Molière, *Le Bourgeois Gentilhomme*.

Dr. Downes.

(3-0; 3-0)

FREN 285. (3) French Language and Literature

This course, given in French, deals with aspects of the principal periods of French Literature. There will be frequent written work based on the literary texts.

Prerequisite: French 180.

Texts: Molière, *Le Malade Imaginaire*, (Editions Bordas); Racine, *Andromaque*, (Editions Bordas); Voltaire, *Candide*, (edited by Lester G. Crocker); Bernardin de Saint-Pierre, *Paul et Virginie* (Editions Bordas); Camus, *La Peste*; Giraudoux *Amphitryon 38* (Editions Bordas); and other texts to be announced.

Dr. Limbrick, Dr. Waelti-Walters. (3-0; 3-0)

FREN 290. (3) French Oral and Written Practice

This course is given in French and written exercises are expected from the class every week.

Prerequisite: French 180.

Texts: To be announced.

Members of the Department. (3-1; 3-1)

***FREN 300. (3) French Reading Course**

Presentation of basic sentence structures, reading of general and scientific articles, designed to meet the needs of students who have no knowledge of French, but who wish to gain reading comprehension in a special field.

Prerequisites: Open to all students except those who have credit in French 11 or equivalent higher courses.

Texts: C. Brichant, *French for the Sciences*.

Dr. Edwards. (3-0; 3-0)

FREN 302. (3) Composition and Stylistics

This course, conducted entirely in French, will require frequent written exercises involving vocabulary and grammar; translations, stylistic commentaries; compositions.

Texts: Mansion (Harrap), *A Grammar of Present-day French* (without exercises); *Le Petit Robert*, (Société du Nouveau Littré).

Dr. Beardsmore, Mr. Mentha, Mr. Turton. (4-0; 4-0)

FREN 310. (3) French Literature in Translation

This course will cover one major aspect of French Literature and will vary in content each year.

Prerequisites: English 120 (or the former English 100). No knowledge of French required. Open to students in any faculty as an elective; open only as an outside elective to students concentrating in French, with permission of Department.

(Not offered 1974-75.) (3-0; 3-0)

FREN 350. (3) An Advanced Course in French, with Concentration on Oral Work

This course is designed to meet the needs of teachers-in-training and of secondary school teachers of French. Admission requires the consent of the Head of the French Department.

Prerequisites: normally French 285 and 290.

Credit will be given as part of a major in the Faculty of Education or as an elective. It can also be taken as an elective in the Faculty of Arts and Science.

Texts: Christin and Lefebvre, *Comprendre la France* (Scribner's).

Mr. Mentha. (0-6; 0-6)

* As many as possible of the courses marked with an asterisk will be offered in 1974-75. Before registering, students of French should consult the Head of the Department.

FREN 360. (3) Aspects of French Culture

The course is designed to develop, in a broad cultural context, the student's oral and written expression in French. Until mid-February, the course will attempt to define French culture, dealing with social and political problems and the arts, with some historical background. The rest of the year will be devoted to French-Canadian society. Regular oral and written practice; and three or four major compositions or oral presentations chosen according to the student's area of interest.

Prerequisites: May be taken as a terminal course in French by those students having completed French 280, or (with a mark of B- or better) French 260 (240). May also be taken, as a supplementary course, concurrently with French 285 and/or 290 and/or 350. Does not form part of a General concentration, Major or Honours degree in French, and may not be taken by students enrolled in the third or fourth years of these programmes. In cases not covered above, special permission can be given by the Head of the Department.

(Not offered 1974-75.) (3-0; 3-0)

FREN 402. (3) Composition, Translation and Stylistics

French Composition; French and English Translation; Stylistic commentary on French texts.

Prerequisite: French 302.

Texts: Grevisse, *Le Bon Usage, grammaire française*, (Librairie Payot); *Le Petit Robert*, (Société du Nouveau Littre).

Members of the Department. (3-0; 3-0)

FREN 409. (3) Literature of the Seventeenth Century

A study of literary forms in the Seventeenth Century with particular emphasis on the theatre.

Texts: Lagarde et Michard, *XVII^e Siècle*; Mme de La Fayette, *La Princesse de Clèves*; H. d'Urfé, *L'Astrée*; Molière, *Le Tartuffe*, *L'École des femmes*, *Le Misanthrope*, *Les Précieuses ridicules*, *Dom Juan*; Corneille, *Le Cid*, *Horace*, *Polyeucte*; Racine, *Andromaque*, *Phèdre*, *Britannicus*, *Athalie*.

Dr. Baldner. (3-0; 3-0)

FREN 410 (formerly 401). (3) Literature of the Eighteenth Century

Principal literary, social and philosophic trends of Eighteenth Century France. (Not offered 1974-75.) (3-0; 3-0)

FREN 411. (3) Nineteenth Century Part I (Romanticism)

A study of the leading French authors of the first half of the Nineteenth Century. (Not offered 1974-75.) (3-0; 3-0)

FREN 412. (3) Nineteenth Century Part II

Realism, naturalism and idealism in the novel and in poetry.

Texts: Guthrie and Diller, *French Literature and Thought since the Revolution*; Augier, *Le Gendre de Monsieur Poirier*; Bourget, *Le Disciple*; Flaubert, *Madame Bovary*; Fromentin, *Dominique*; Huysmans, *A Rebours*; Maupassant, *Boule de suif*; Zola, *Germinal*.

Dr. Griffiths. (3-0; 3-0)

FREN 414. (3) Poetry from Baudelaire to the Surrealists

A systematic study of the Parnassian movement, the origins and significance of symbolism, the Decadent school and Post-World War I poetic trends. (Not offered 1974-75.) (3-0; 3-0)

FREN 415. (3) Modern French Theatre

Survey of twentieth-century French Drama. Students will be expected to write two essays per term; in addition, they will prepare material for discussion in class.

Texts: Giraudoux, *Amphitryon 38*, *Electre*, *Siegfried*; Anouilh, *Le Voyageur sans bagages*, *Le Bal des voleurs*; Claudel, *L'Annonce faite à Marie*; Montherlant, *La Reine morte*, *Malatesta*; Sartre, *Huis clos*, *Les Mouches*, *Nekrassov*; Camus, *Caligula*, *Le Malentendu*; Artaud, *Les Cenci*; Ionesco, *La Cantatrice chauve*, *Rhinocéros*; Beckett, *En attendant Godot*, *Fin de partie*; Arrabal, *L'Architecte et l'empereur d'Assyrie*, *Et on met les menottes aux fleurs*; Sarraute, *Isma*, *Silence*, *Le Mensonge*.

Scenarios: Cocteau, *Orphée*; Duras, *Hiroshima mon amour*.

Dr. Waelti-Walters.

(3-0; 3-0)

FREN 416. (3) Modern French Novel

A study of the evaluation of the narrative technique from Marcel Proust to the *nouveau roman*. Representative works by Gide, Proust, Malraux, Camus, Sartre, etc. (Not offered 1974-75.)

(3-0; 3-0)

***FREN 418. (3) French-Canadian Literature**

A survey of French literature in Canada before 1900; a study of French-Canadian literature in the Twentieth Century with emphasis on the novel, theatre and poetry since 1945.

Texts: Bessette, Geslin, Parent, *Histoire de la littérature canadienne-française*; Moreau, *Anthologie du roman canadien-français*; Sylvestre, *Anthologie de la poésie canadienne-française*; Hémon, *Maria Chapdelaine*; Aubert de Gaspé, *Les Anciens Canadiens*; Savard, *Menaud, maître-draveur*; Roy, *Bonheur d'occasion*; Lemelin, *Les Plouffe*; Bessette, *Le Libraire*; Blais, *La Belle Bête*; Hébert, *Les Chambres de bois*; Langevin, *Poussière sur la ville*; Godbout, *L'Aquarium*; Thériault, *Agaguk*; Gélinas, *Tit-Coq*.

Monthly essays and classroom *exposés*.

Dr. Moreau.

(3-0; 3-0)

FREN 421. (1½ or 3) Renaissance Literature

An introduction to the principal literary works of the Renaissance in France and a study of the history of ideas based upon selected texts.

(Not offered 1974-75.)

(3-0) or (3-0; 3-0)

FREN 422. (1½ or 3) Medieval Literature

Study of a number of medieval literary works in the original. Students will learn to read medieval French and acquire some knowledge of the principal literary *genres* of the period.

Texts: A. J. Greimas, *Dictionnaire de l'Ancien Français* (Larousse); *Aucassin et Nicolette* (edited by M. Roques); Chrétien de Troyes, *Le Chevalier au Lion*, (edited by M. Roques); *Le Roman de Tristan et Iseut* (edited by J. Bédier).

Dr. Beardsmore.

(3-0; 3-0)

NOTE: In the Winter Session 1974-75 this course will carry 3 units of credit.

FREN 425. (3) History of the Language

A study of the development of the language from earliest to modern times.

(Not offered 1974-75.)

(3-0; 3-0)

FREN 426 (Linguistics 426). (3) Comparative Stylistics of French and English

A contrastive study of the semantic and stylistic resources of French and English at the structural and cultural levels.

(Not offered 1974-75.)

(3-0; 3-0)

FREN 430. (3) Directed Reading Course

(3-0; 3-0)

FREN 431. (1½) Directed Reading Course

(3-0)

* As many as possible of the courses marked with an asterisk will be offered in 1974-75. Before registering, students of French should consult the Head of the Department.

FREN 432. (1½) Directed Reading Course (3-0)

FREN 490. (3) Honours Tutorial

Honours students only. Students will meet one hour a week with an assigned tutor, throughout Third and Fourth Years, to do reading beyond that assigned in lecture courses, and other work as necessary, with a view to preparing the final written and oral comprehensive examinations. Registration in Fourth Year only.
Members of the Department.

GRADUATE COURSES

FREN 500. (0) Bibliography

FREN 501. (1½) French Literary Criticism Since Sainte-Beuve

FREN 506. (1½ or 3) Pascal in His Time

FREN 514. (3) The Theory of Poetry in France from 1850 to 1930

FREN 516. (3) *Le Nouveau Roman* in France

FREN 521. (3) Montaigne's *Essais* and their Literary and Philosophical Influence

FREN 590. (1½ or 3) Directed Studies

FREN 599. (6) Thesis

DEPARTMENT OF GEOGRAPHY

Charles N. Forward, B.A., M.A. (*Brit. Col.*), Ph.D. (*Clark*), Professor and Head of the Department.

Bryan H. Farrell, B.A. (*Cant.*), M.A. (*Wash.*), Ph.D. (*Auck.*), Professor.

W. R. Derrick Sewell, B.Sc.Econ. (*London*), M.A., Ph.D. (*Wash.*), Professor.

Rudolph W. A. Wikramatileke, B.A. (*Ceylon*), M.A. (*Clark*), Ph.D. (*London*), Professor.

Harold D. Foster, B.Sc., Ph.D. (*London*), Associate Professor.

Charles H. Howatson, B.A., M.A. (*Brit. Col.*), Associate Professor.

David Chuen-Yan Lai, B.A., M.A. (*Hong Kong*), Ph.D. (*London*), Associate Professor. (On study leave 1974-75.)

Michael C. R. Edgell, B.A. (*Birm.*), Conservation Dip. (*Lond.*), Ph.D. (*Birm.*), Assistant Professor.

Francis M. Leversedge, B.A. (*Brit. Col.*), Assistant Professor.

Malcolm A. Micklewright, B.A., Ph.D. (*Wash.*), Assistant Professor.

Peter E. Murphy, B.Sc.Econ., Teachers Dip. (*London*), M.A., Ph.D. (*Ohio St.*), Assistant Professor.

J. Douglas Porteous, B.A., M.A. (*Oxon.*), Ph.D. (*Hull*), Assistant Professor.

Stanton E. Tuller, B.A. (*Ore.*), M.A., Ph.D. (*Calif., Los Angeles*), Assistant Professor.

Colin J. B. Wood, B.A. (*Wales*), M.A., Ph.D. (*McMaster*), Assistant Professor. (Leave of absence 1974-75.)

Gilian D. McDade, B.A. (*Witwatersrand*), Senior Laboratory Instructor.

John F. Bryant, Senior Academic Assistant.

GENERAL, MAJOR AND HONOURS PROGRAMMES

The Geography Department offers courses leading to the B.A., B.Sc., M.A. and Ph.D. degrees, with a choice of General, Major, and Honours programmes for both bachelor degrees. Information about course combinations suited to specific professional objectives and about graduate programmes is available from the Department. In general, the Department recommends an appropriate first-year mathematics course, especially Computing Science 170 and 171, for the B.A. Major and Honours programmes, and considers a second-year mathematics course, chosen in consultation with the Department, desirable for B.Sc. candidates. Second year Geography Majors and Honours students may take the required Geography 321 and one of 322, 323 in their second year, if they so wish. Moderate fees will be charged students in Geography 323, 423, and in certain courses with announced field trips.

An up-to-date list of courses offered and the faculty members assigned to courses will be available in the Departmental Office, Cornett Building after September 1. Students who wish academic counselling are asked to come to the Department before or during the registration period.

Departmental requirements for the B.A. in Geography.

General — 15 units: 101; 3 units chosen from 201, 203, 204 and 205; and 9 units of courses numbered 300 or above, 3 units of which selection must be a regional course.

Major — 24 units: 101; 203; 3 units chosen from 201, 204 and 205; 321 and one of 322, 323; and 12 units of courses numbered above 300, 3 units of which selection must be a regional course.

Honours — 33 units minimum: 101; 203; 3 units chosen from 201, 204 and 205; 321 and one of 322, 323; 499; and 18 other units in Geography or in other approved courses numbered above 300 chosen in consultation with the Department. At the end of the fourth year, the candidate will take an oral examination and submit an Honours Essay.

Departmental Requirements for the B.Sc. in Geography.

General — 15 units: 101; 203; and 9 units of courses chosen from 321, 322, 323, 350, 370, 371, 372, 373, 374, 375, 376, 377, 421, 423, 442, 450, 451, 459 and 479.

Major — 24 units: 101, 203; 3 units chosen from 201, 204 and 205; 321, and one of 322, 323; 12 units of courses chosen from 350, 370, 371, 372, 373, 374, 375, 376, 377, 421, 423, 442, 450, 451, 459 and 479. All major students are required to obtain:

- (a) Three units of credit from Mathematics 100 and 101 (or 130), or 180, or three units from 102, 110, and 151, or Computing Science 170 and 171.
- (b) Six units of credits chosen from the following list or from appropriate courses numbered 300 or above chosen in consultation with the Department:

Astronomy 120, 200

Bacteriology 200

Biology 150, 200, 203, 204, 206, 207

Chemistry 120, 124, 224, 230, 233

Geology 200

Mathematics 200, 201, 210, 230, 231, 232, 240, 253, Computing Science 272, 273

Physics 101, 103, 121, 211, 212, 213

Honours — 33 units minimum: 101; 203; units chosen from 201, 204 and 205; 321 and one of 322, 323; 499; and 18 other units in Geography or in other approved courses numbered above 300 chosen in consultation with the Department. At the end of the fourth year the candidate will take an oral examination and submit an Honours Essay.

UNDERGRADUATE COURSES

Unless indicated otherwise, courses begin in September and end in April.

GEOGRAPHY

Geography 101 is prerequisite to all other geography courses. This prerequisite may be waived by the Department in certain circumstances. For a first year student, specifically, the requirement may be waived upon request if the student has taken Geography 12 and obtained at least a B standing in that course. The requirement may be waived also for a student who has special professional experience that is judged to be equivalent to this academic requirement. In the event that a student who has had Geography 101 waived proceeds to a General, Major or Honours programme in Geography, he or she will be required to take six units of second year courses in a General and nine units of second year courses in a Major or Honours programme.

GEOG 101. (3) Introduction to Geography

A systematic description and analysis of the surface of the earth as the home of man. First term lectures will introduce the characteristics and interactions of the atmosphere, hydrosphere, lithosphere, and biosphere, including man, and will survey the historic, global association of man and environment. Second term lectures will examine rural and urban land use, environmental quality, and the dilemma of growth on a finite earth. Laboratory sessions will emphasize discussion of lectures and readings.

Dr. Edgell, Mr. Leversedge, Dr. Porteous.

(2-2; 2-2)

GEOG 201. (3) Economic Geography

An analysis of the areal distribution of economic activity, examining the characteristics of different industries, their inter-relationships with each other, and the characteristics of different economic regions. Theories of location and models of regional economic development are discussed and applied. Problems resulting from disparate levels of economic development, and from growth and decline of activities are considered.

Mr. Leversedge.

(2-2; 2-2)

GEOG 203. (3) Physical Geography

A study of meteorology, climatology, geomorphology, pedology, biogeography, hydrology, and their inter-relationships.

Dr. Tuller, Mr. Howatson.

(2-2; 2-2)

DEPARTMENT OF GEOGRAPHY — UNDERGRADUATE COURSE STRUCTURE

First Year	101 (3) Introduction to Geography		
Second Year	203 (3) Physical; 201 (3) Economic; 204 (3) Canada; 205 (3) Cultural		
Third and Fourth Years			
Techniques and Methods	Urban, Economic and Cultural	Resources and Physical	Regional
321 (1½) Introduction to Quantitative Methods in Geography	340 (3) Introduction to Urban	350 (3) Introduction to Resources	360 (3) Introduction
322 (1½) Air Photo Interpretation	341 (1½) Industrial	370 (1½) Hydrology	W. Pacific Rim
323 (1½) Cartography	342 (1½) Transportation & Commodity Flows	371 (1½) Water Resources Management	368 (3) W. Canada
	343 (1½) Regional Analysis	372 (1½) Climatology	369 (3) Europe
	344 (1½) Urban Systems Simulation	373 (1½) Applied Climatology	
	347 (3) Economic & Cultural Change	374 (1½) Biogeography	
	348 (3) Historical	375 (1½) Biospheric Resources	
		376 (1½) Geomorphology	
		377 (1½) Applied Geomorphology	
421 (3) Advanced Quantitative Methods	440 (1½) Seminar on Urban Geography of Canada	442 (3) Legal and Admin. Aspects of Resources	462 (3) Soviet Union
423 (1½) Advanced Cartography	444 (1½) Urban Transportation and Land Use Planning	450 (3) Decision-Making in Resources Management	463 (3) S. E. Asia
429 (3) History & Nature of Geog.	446 (1½) Development & Planning of the Urban Region	451 (3) Water Resources Planning and Policy-Making	464 (3) China
490 (1-3) Directed Studies	447 (1½) Urbanization in Developing Countries	459 (3) Recreational Resource Analysis	465 (3) Japan
499 (3) Honours Seminar & Essay	448 (3) Urban Social Geography	479 (3) Seminar in Physical Geography	466 (3) Australia
			467 (3) South Pacific

GEOG 204. (3) Geography of Canada

The course deals with the geography of Canada both systematically and regionally. Among the topics treated systematically in the first half are: population and settlement; transportation systems; natural resources; manufacturing and services; urban characteristics and metropolitan dominance; regional planning and economic development. Regional studies of the Atlantic Provinces, Quebec, Ontario, the Prairie Provinces, British Columbia and the Yukon and Northwest Territories are emphasized in the second half, with due consideration being given to economic and social problems and development policies. The course concludes with a discussion of regionalism, nationalism and external relations.

Dr. Forward, Dr. Micklewright.

(2-2; 2-2)

GEOG 205. (3) Introduction to Cultural Geography

A comparative and historical approach to the impact of ideas and social institutions upon landscape and the evolution of geographic areas. Cultural variations in man's perceived role in his environment and the attendant ethnocentric difficulties in adapting modern resource development to areas of traditional culture.

(2-2; 2-2)

TECHNIQUES AND METHODS

GEOG 321 (formerly 300). (1½) Introduction to Quantitative Methods in Geography

An introduction to statistical reasoning and methodology which may be applied to the analysis of geographic problems. The course will emphasize the structuring of a research design and will provide the student with the opportunity to use statistical techniques in the empirical analysis of assigned class topics. (Not open to students with credit for Geography 300).

Dr. Murphy.

September-December only. (2-2)

GEOG 322 (formerly 300). (1½) Air Photo Interpretation

An introduction to photogrammetry and interpretation of aerial photographs and infrared imagery. Attention is focussed on the training in the use of air photos as source materials in map compilation and as tools for research in physical and social sciences. Among the topics studied are: principles and techniques of photo-interpretation; inductive and deductive evaluation of air photo patterns; principles and operation of the multiplex stereoscopic mapping machine; and remote sensing techniques. Laboratory assignments and field work will be emphasized. (Not open to students with credit for Geography 300).

Dr. Howatson.

January-April only. (2-2)

GEOG 323 (formerly 300). (1½) Cartography

An introductory course in cartography and cartographic techniques including: the properties of map projections, techniques of terrain representation, the cartographic representation of statistics and map reproduction methods. Emphasis will be placed on the application of learned techniques to map production. (Not open to students with credit for Geography 300).

Dr. Micklewright.

September-December only. (2-2)

GEOG 421 (formerly 402). (3) Advanced Quantitative Methods in Geography

The course will introduce more advanced statistical techniques which are applicable to geographic research. Emphasis will be placed upon the problems of application and interpretation, with the students being given the opportunity to apply techniques to empirical research.

Prerequisite: Geography 321 or 300 or permission.

(2-2; 2-2)

GEOG 423 (formerly 401). (1½) Advanced Cartography

This course is intended to add to the cartographic skills and knowledge taught in Geography 323. The course includes advanced techniques, such as scribing photo-mechanical work, the mathematical analysis of map projections, and advanced work

in aerial photography. Field trips may include visits to governmental mapping agencies.

Prerequisite: Geography 323 or 300.

Dr. Micklewright.

January-April only. (2-2)

GEOG 429 (formerly 445). (3) The History and Nature of Geography

Geography from ancient times to the present; the most important geographers and an assessment of their contributions; significant contemporary geographic concepts and developments.

Dr. Farrell.

(0-0-3; 0-0-3)

GEOG 490. (1-3) Directed Studies in Geography

In special cases, with the consent of the department and the individual instructor concerned, a student may be permitted to pursue a course of directed studies.

GEOG 499. (3) Honours Seminar and Essay

Third and fourth year students attend the seminar during their first term in the honours programme, but do not register in the course until fourth year. The seminar meets every two weeks, providing an orientation to the demands of the honours programme, and helping the student to develop critical scholarly attitudes towards reading and the formulation, design and discussion of research work. For the remainder of the honours programme, the seminar is replaced by informal individual meetings with the honours student advisor and the essay supervisor. The essay, submitted at the end of the fourth year, will be based upon first hand research or field work, and must demonstrate the student's ability to produce work of high scholarly merit under the supervision of a faculty member. It will be a standard higher than that demanded for a term essay, but definitely not so high as the standard demanded for a Master's thesis.

URBAN, ECONOMIC AND CULTURAL

GEOG 340 (formerly 305). (3) Introduction to Urban Geography

As an introduction to the field of urban geography the course is very broad in scope. Among the topics studied are: the rise and growth of cities; location, size and spacing; economic base; population characteristics; urban transportation; residential, commercial and industrial structure of cities; the urban fringe; the metabolism of the city; urban renewal; and the planning of the urban environment.

Dr. Murphy, Dr. Porteous.

(3-0; 3-0)

GEOG 341. (1½) Industrial Geography

An analytical examination of factors affecting location of manufacturing industries and the growth of manufacturing regions. Topics of discussion will include theories and models of industrial location; communist ideas of industrial location; measurement of industrial location and association; and consideration of industrial policies and planning in selected countries. (Not open to students who have taken Geography 310).

September-December only. (3-0)

GEOG 342. (1½) Transportation and Commodity Flows

Interregional and intercity modes of transportation are studied in terms of their function as dynamic features of the economic and cultural landscape. Railway, highway, pipeline, water, and air transport modes are considered as integrated systems that handle the movement of commodities and passengers within national and continental areas. Specific examples of commodity flows are studied in relation to economic development and the nodal function of cities. The locational attributes and functions of seaports, airports and land transportation terminals as interchange points in transport networks are fully explored. The effect of possible transport innovations also is investigated.

January-April only. (3-0)

GEOG 343. (1 ½) Regional Analysis

An examination of socio-economic systems from a spatial viewpoint. Major themes are spatial structures, shifts in location of activities, circulation systems, city-region relations, and regional economic development. A variety of conceptual models will be applied to the above topics. Assignments will involve outside readings and two or three short term projects.

Prerequisite: Geography 201, 204 or 205 or permission.

(Not open to students who have taken Geography 442 in 1969-70.)

Dr. Micklewright.

January-April only. (3-0)

GEOG 344. (1 ½) Urban Systems Simulation

Gaming procedures which simulate real-world urban processes form the core of this course. By adopting the roles of developers, politicians, planners, public-interest groups or other decision-makers, participants gain an understanding of the complex inter-relationships and interactions occurring within an urban system. The following topics are stressed: urban transportation; land-use development; zoning; urban-rural relationships; pollution; poverty; politics and municipal finance. Participants will be given the opportunity to redesign the gaming procedures and also to relate specific gaming situations to contemporary planning problems in Canadian cities.

Prerequisite: Geography 340 (formerly 305) or permission.

Enrolment limited to 20: preference given to students in related urban courses.

Dr. Porteous.

January-April only. (0-0-3)

GEOG 347 (formerly 311). (3) Geography of Economic and Cultural Change

A review of the variable factors affecting lesser developed parts of the world, and of technological, economic and cultural changes which result from the interaction of these factors. The initial part of the course will be devoted to a systematic treatment of factors affecting change. The second part of the course will consist of a number of geographical studies of areas at different stages of development. Students without the usual prerequisite who are particularly interested in the course should discuss the matter with the instructor.

Dr. Wikkramatileke.

(3-0; 3-0)

GEOG 348 (formerly 307). (3) Historical Geography

An introduction to the field of historical geography, specifically, the methods of interpreting landscape changes. Attention is focused on the major theories of the subject as identified in the historical geography literature. This includes the reconstruction of geographical settings for periods of particular historical significance. Local studies grounded on field and archival investigations may be undertaken. Geography 205 is recommended.

GEOG 440. (1 ½) Seminar on Urban Geography of Canada

Canadian cities are studied both as a group and individually. At the group level the processes of urbanization, urban growth and economic development as well as the characteristics of size, spacing and central place relationships are investigated. Individual cities are treated as urban laboratories in which theoretical aspects of urban studies can be applied. Census data will be relied upon as major sources of information available on a uniform basis. This will facilitate comparative studies of cities. An important goal of the course is to explore fully the elements of urban structure and dynamic functions of a city.

Prerequisite: Geography 340 (formerly 305) or permission.

Dr. Forward.

September-December only. (0-0-3)

GEOG 444. (1 ½) Urban Transportation and Land Use Planning

The problem of developing a satisfactory transportation system relative to the areal pattern of land use in an urban area is the major concern of this course. The functions of the various modes of transport and their effectiveness in the urban environment are investigated. Land use types are studied as generators of traffic in the city. An attempt is made to determine the volume and nature of traffic generated

by different land uses. Consideration is given to the possibilities of drastically altering land use patterns of cities, as well as changing transport systems.

Prerequisite: Geography 340 (formerly 305) or permission.

(Not offered 1974-75; intend to offer 1975-76.)

(3-0)

GEOG 446. (1½) Development and Planning of the Urban Region

The course examines the linkages that exist between current urban geography analysis and the planning problems of the metropolitan regions of the North American continent. The course attempts to demonstrate the contribution geography may make, as a social science, to the overall planning and development of such city regions. The aspects of the urban environment selected for study include topics, such as, migration and housing patterns, industrial and transportation considerations, and the influence of central government pressure and legislation.

Prerequisite: Geography 340 (formerly 305) or permission.

Dr. Murphy.

September-December only. (3-0)

GEOG 447. (1½) Urbanization in Developing Countries

The purpose of the course is to examine the fundamental differences between urban organization in the developed and developing world; to study the historic, cultural and socio-economic conditions under which cities in the developing world are growing; and to test the applicability of theories which were founded on studies of western cities.

Prerequisite: Geography 340 (formerly 305) or permission. January-April only. (3-0)

GEOG 448. (3) Urban Social Geography

A behavioural approach to the study of man-environment systems in an urban context. With a base in cultural geography and environmental psychology, the course will investigate the spatial dynamics of urban behaviour in western societies, with special reference to neighbourhood interaction, community development, and perceptions, attitudes and learning within the urban system. Students should become aware of the contemporary urban social problems which are involved in planning the metropolitan environment.

Prerequisite: Geography 340 (formerly 305) or permission.

Dr. Porteous and Dr. Murphy.

(3-0; 3-0)

RESOURCES AND PHYSICAL

GEOG 350. (3) Introduction to Resource Geography

An introduction to the geographic study of natural resources: their form, inherent characteristics, and external relations with the geography of the areas in which they are found. These resources may include land, water, the atmosphere, fisheries, wildlife and forests. Attention will be paid to the way in which resources and their use contribute to the character of areas and the manner in which interrelated aspects of culture — technology, perception, economic and institutional elements — help determine the pattern of use and its areal variations. Contemporary problems and issues of resource management in North America, such as rapidly growing population, increasing urbanization and demands for improved environmental conditions, will be emphasized.

Prerequisite: Geography 203 and Geography 201, 204 or 205, or permission.

(3-0; 3-0)

GEOG 370 (formerly 320). (1½) Hydrology

A study of hydrology, focusing on the various factors that influence the distribution of water resources in time and space. Among the topics studied are; evaporation and transpiration; runoff and stream gauging; snow and ice surveying; flood prediction and droughts. A term project, generally involving field work, is required. This course provides the background in physical hydrology recommended for students registering for Geography 371.

Prerequisite: Geography 203 or permission.

Dr. Foster.

September-December only. (2-2)

GEOG 371 (formerly 353). (1 ½) Water Resources Management

A study of water resources management in different parts of the world, examining the influence of various physical, economic, social, political, and technological factors. The alternative ways in which such problems of water scarcity, floods, and declining water quality are handled will be discussed. A number of major water development schemes will be examined in detail. Students will be expected to undertake a modest research project and report upon it. (Not open to students with credit for Geography 320 before 1970-71 or Geography 353.)

Prerequisite: Geography 370 (formerly 320) or permission.

Dr. Sewell.

January-April only. (2-2)

GEOG 372 (formerly 302). (1 ½) Climatology

An investigation of the physical processes that determine the variation in climate and weather from place to place around the world. Emphasis will be on the processes of mutual interaction between the earth's surface and the atmosphere, and the role of differing surface types in creating the climate above them. Laboratory work will focus on a local, applied microclimatologic problem.

Prerequisite: Geography 203 or permission.

Dr. Tuller.

September-December only. (2-2)

GEOG 373 (formerly 351). (1 ½) Applied Climatology

A study of the application of physical principles to practical problems in microclimatology and the reciprocal interaction between climate and man's activities. Discussion topics will include; effects of different surface types on the microclimate, bioclimatology and agricultural climatology, climatic change, urban climatology and man's intentional and unintentional modification of the climate on both large and small scales. (Not open to students who have taken Geography 302 before 1970-71 or Geography 351.)

Prerequisite: Geography 372 (formerly 302).

Dr. Tuller.

January-April only. (2-2)

GEOG 374 (formerly 306). (1 ½) Biogeography

This course provides an analysis of the organization of biotic systems. Origins, dispersals, evolution, and limiting physical, biotic and cultural factors as they relate to present day distribution patterns and ecological relationships will be considered. Particular attention will be paid to: the nature of ecological relationships; the landscape patterns resulting from these relationships; the dynamic character of ecosystems; the impact of man upon ecological processes and ecosystem character.

Prerequisite: Geography 203 or permission.

Dr. Edgell.

September-December only. (2-2)

GEOG 375 (formerly 352). (1 ½) Biospheric Resources

The nature and results of man's interactions with the natural environment are the main foci of this course. An introductory section will outline the major influences upon the development of present day western attitudes towards the environment. This section will be followed by a selective examination of the interplay between culture, social, economic and ecologic processes in biological resource utilization. Particular emphasis will be placed upon the ecological parameters of resource systems, and the relationship of these parameters to actual and potential resource use. (Not open to students who have taken Geography 306 before 1970-71 or Geography 352.)

Prerequisite: Geography 374 (formerly 306) or permission.

Dr. Edgell.

January-April only. (2-2)

GEOG 376 (formerly 312). (1 ½) Geomorphology

An investigation of the genesis and distribution of landforms. Emphasis will be placed upon techniques used in the measurement of those processes which are of prime importance in the evolution of glacial, periglacial, temperate and tropical landforms. Marine, karstic and volcanic landforms will also be studied. The course will involve

outside readings, field trips, and participation in a group research project. (Not open to students with credit for Geography 312 or 412).

Prerequisite: Geography 203 or Geology 200 or permission.

Dr. Foster. September-December only. (2-2)

GEOG 377 (formerly 354). (1½) Applied Geomorphology

A detailed analysis of the social relevance of geomorphology. Topics will be selected from the following: the gravel industry, transportation planning, mineral prospecting, mass movement prediction, soil erosion, siting of new towns, prevention of coastal erosion and reservoir silting. The course will involve outside readings, field trips and participation in a group research project. (Not open to students with credit for Geography 412 before 1970-71 or Geography 354.)

Prerequisite: Geography 376 (formerly 312) or permission.

Dr. Foster. January-April only. (2-2)

GEOG 442. (3) Seminar in Human Geography

Section 1: Legal and administrative aspects of resources.

A study of laws, judicial interpretations, and administrative policies affecting land, water, forests, minerals, fuels, range land, recreational development and coordination, with special attention to Canada.

Prerequisite: Geography 350. (0-0-3; 0-0-3)

GEOG 450. (3) Decision-Making in Resources Management

An advanced course in the geography of resources management and conservation. Its purposes are to determine the factors which appear to influence decision-making in the resources field, and to examine the effects of different decisions upon the physical and human environments. The first part of the course is devoted to a review of various approaches to the analysis of resource management decisions. The second part of the course deals with a number of case studies from different parts of the world, applying methodologies developed in the first part of the course, and comparing the impacts on the human and physical landscapes.

Prerequisite: Geography 350 or permission.

Dr. Sewell. (3-0; 3-0)

GEOG 451. (3) Water Resources Planning and Policy-Making

Models of water resources planning and policy-making will be described and applied to specific cases. An attempt will be made to isolate factors which appear to account for individual approaches to planning and particular policy outcomes. Specific attention will be paid to the kinds of information needed for effective planning and policy-making. Topics will be drawn mainly from Canada, and will include problems associated with urban water supply, irrigation, floods, water-based recreation, large scale water diversion, and the relationship between water development and economic and social change. Students will be expected to undertake a research project and to attend a field trip.

Prerequisites: Geography 350, 370 (formerly 320) and 371 (formerly 353) or permission.

(Not offered in 1974-75; intend to offer in 1975-76.) (3-0; 3-0)

GEOG 459. (3) Recreational Resource Analysis

A study of recreational resources, which range from national parks to city parks and from public beaches to summer cottaging territory, the course will analyse the methods which have been used to estimate land use capability, to identify spatial patterns of circulation and demand, and to measure environmental perceptions as they relate to recreational activity. Emphasis will be placed on questions such as— is it possible to predict future demand for recreational space; is the existing administrative framework flexible enough to respond to changing patterns of recreational resource demand; is wilderness development possible without damaging natural quality.

Prerequisite: Geography 350 or permission. (2-2; 2-2)

GEOG 479 (formerly 441). (3) Seminar in Physical Geography

A course for students who desire advanced work and practical research experience in the fields of climatology, biogeography, geomorphology or hydrology. Emphasis is on learning through actual experience. Students will be expected to initiate and complete suitable research projects in one or a combination of the above fields in close consultation with the appropriate faculty member or members. Students planning to take this course in their fourth year should consult with the Department in their third year. (Not open to students with credit for Geog 441.)

Prerequisites: Geography 203 and 370 and 371, or 372 and 373, or 347 and 375, or 376 and 377.

Dr. Tuller, Dr. Foster, Dr. Edgell.

(0-0-3; 0-0-3)

REGIONAL

Pacific Studies 300, Themes and Problems of the Pacific is recommended for students intending to take regional courses on the Pacific area (462, 463, 464, 465, 466 and 467).

GEOG 360. (3) Introduction to the Geography of the Western Pacific Rim

The western Pacific Rim is an area which includes the Soviet Far East, China, Japan, Southeast Asia, Australia, New Zealand and Islands of the Pacific. The course will bring to students concrete applications of fundamental geographic concepts and the realities of living patterns in particular areal settings. Attention will be focussed on geographical aspects of historical development, cultural interaction, divergent attitudes to resources, and the relationships between disproportionately large populations and the habitats which support them. The course will also serve as an introduction for more advanced courses concerned with specific parts of the study area. (Not offered in 1974-75.)

(3-0; 3-0)

GEOG 368 (formerly 410). (3) Geography of Western Canada

A study of the resources and regional development in the four western provinces with emphasis on the more developed parts. Particular attention will be given to problems in the forest industry of British Columbia; the use of water for power and irrigation in Western Canada; the competition for use of land by forestry, grazing and cultivation; and diversification of agriculture on the Prairies. Comparisons will be made between British Columbia and the Prairie provinces with respect to: the historical development of settlement; the variety and availability of mineral resources; manufacturing and urban development.

Mr. Howatson.

(3-0; 3-0)

GEOG 369 (formerly 408). (3) Geography of Europe

A systematic study of the economic, social and political patterns and processes which characterize Europe. Particular emphasis will be given to the themes of urbanization, industrialization and regional differentiation. Throughout, Europe will be considered as a living laboratory for testing contemporary geographic concepts.

(3-0; 3-0)

GEOG 462. (3) Geography of the Soviet Union

An analysis of patterns, priorities and problems in Soviet development. Emphasis is given to the role of institutions, ideology, history and resource endowment in understanding the geo-political and cultural milieux, the management framework and the structure of the economy. Basic strategies will be identified in relation to Western experience and as models for developing countries.

Mr. Leversedge.

(3-0; 3-0)

GEOG 463 (formerly 308). (3) The Geography of Southeast Asia

A geographic survey of the regions and resources, both physical and human, of the countries of Southeast Asia together with a discussion of the problems associated with underdevelopment and the geographic implications of political differences in the area.

Dr. Wikkramatilleke.

(3-0; 3-0)

GEOG 464. (3) Geography of China

A detailed analysis of the physical and cultural landscapes of China, followed by an intensive study of certain regions. Emphasis will be placed on geographic aspects of contemporary socio-economic and political conditions in Mainland China within the framework of the East Asian Communist bloc. The course will also discuss the technique of research and study methods of less advanced countries where statistical information is lacking, incomplete, inaccurate or unavailable. (3-0; 3-0)

GEOG 465. (3) Geography of Japan

An intensive survey of the physical and cultural patterns, resources, land use, agriculture, industry and economic development of Japan. Special consideration will be given to the geographic aspects of population pressure, resource management and conservation, historical phases of industrialization, and the major geographic regions of Japan. (3-0; 3-0)

GEOG 466. (3) Geography of Australia

A systematic and regional study of the geography of Australia. The country will be viewed in the overall framework of the Pacific Basin. As well as an analysis of the fundamental character of the area, attention will be paid to the geographic implications of problems, such as natural resource development, transportation, isolation, limited consumer markets and attempts to foster manufacturing industry. (3-0; 3-0)

Dr. Edgell.

GEOG 467. (3) Geography of The South Pacific

The geographic study of New Zealand and the major groups of the Oceanic Pacific area (Polynesia, Melanesia and Micronesia). The area will be viewed in context within the overall framework of the Pacific Basin. As well as an analysis of the fundamental character of the area, attention will be paid to the geographic implications of problems, such as alien cultural contact, restricted markets, limited resources, isolation and political and economic development. (3-0; 3-0)

Dr. Farrell.

GEOLOGY

GEOL 200. (3) General Geology

Physical and historical geology. Origin and structure of the earth, materials of the earth, diastrophism, erosion, landforms, mineral deposits, history of the earth and the development of life. (2-2; 2-2)

Mr. Howatson.

Students should note the availability of Liberal Arts 305 (page 169), Science 300 (page 228), and Pacific Studies 300 (pages 191-192) as electives in their senior years.

GRADUATE COURSES

Students should consult the Department concerning the courses offered in any particular year. All graduate students are required to take Geography 500, 525 and either 599 or 699.

GEOG 500. (0) Colloquium in Geography

GEOG 501. (3) Graduate Seminar in Physical Geography

GEOG 502. (3) Graduate Seminar in Human Geography

GEOG 503. (3) Graduate Seminar in Regional Geography

GEOG 504. (3) Graduate Seminar in the History and Nature of Geography

GEOG 521. (2) Quantitative Methods in Geography I

GEOG 524. (2) Quantitative Methods in Geography II

GEOG 525. (0) Field Research

All graduate students are required to attend at least one department field trip.

GEOG 541. (2) Seminar in Urban Analysis

GEOG 542. (2) Seminar in Urban Problems

GEOG 551. (2) Seminar in Resources Analysis

GEOG 552. (2) Seminar in Resources Management Problems

GEOG 561. (3) Graduate Seminar in Research Problems in the Geography of British Columbia

GEOG 590 (A-Z). (2) Directed Studies in Geography

Individual titles will be assigned to each lettered section of the course arranged by supervisory committees.

GEOG 599. (credit to be determined, normally 12 units) M.A. Thesis

GEOG 699. (credit to be determined, normally 18 units) Ph.D. Dissertation

DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURE

Herta M. Hartmanshenn, Ph.D. (*Marburg*), Professor.

Walter E. Riedel, B.Ed., M.A. (*Alta.*), Ph.D. (*McGill*), Associate Professor.

Rodney T. K. Symington, B.A. (*Leeds*), Ph.D. (*McGill*), Associate Professor.

Michael L. Hadley, C.D., B.A. (*Brit. Col.*), M.A. (*Man.*), Ph.D. (*Queen's*), Assistant Professor.

Nora E. Haimberger, B.A., M.A., Ph.D. (*Wash.*), Assistant Professor.

Rosemary Picozzi, B.A. (*Reading*), Ph.D. (*Brit. Col.*), Assistant Professor.

GENERAL, MAJOR AND HONOURS PROGRAMMES

The Department provides three emphases in Germanic Studies which may be elected either independently or in concert:

- 1) German Language
- 2) German Literature and Cultural History
- 3) German Cultural Studies in English Translation

Students specializing in particular programmes will find ample scope for complementing their German Studies in such recommended areas as English and Linguistics.

All students planning to take a concentration in a General Programme or Major or Honours in the Department of Germanic Languages and Literature must take one of English 200, 201, 204, 205, and Linguistics 100 (Group D) or Linguistics 360.

Students wishing to take Third or Fourth Year courses to meet requirements for a B.A. degree on the general, major or honours programme, must satisfy the Department that they have satisfactory standing in appropriate courses at the 200 level. The course numbered 300 should be taken normally in the Third Year.

An Honours programme in the Department of Germanic Languages and Literature normally requires a total of 66 units over a four-year period.

PROGRAMMES IN GERMAN

General — German 100 or 140 (or equivalent); German 200, and 201 or 202 (or equivalent); nine units of German courses chosen from 300 and those numbered 400 or above.

Major — German 100 or 140 (or equivalent); German 200, and 201 or 202 (or equivalent); German 300, 410, plus at least nine units of other courses numbered 400 or above.

Honours — German 100 or 140 (or equivalent); German 200, and 201 or 202 (or equivalent); German 300, 410 plus at least fifteen units of other courses numbered 400 or above.

COURSES

Students from secondary schools with credit from German IX, X, XI (Beginners), will register for German 140; those with advanced credits from secondary schools, or junior colleges, or those who are fluent in German will be placed at an appropriate level.

ELEMENTARY COURSES

GERM 100. (3) Beginners' German

This course is designed for students who have no previous knowledge of German and who wish to acquire a command of the spoken and written language, in prepara-

tion for more advanced work. The language laboratory will reinforce the learning of basic speech patterns and idioms, and will complement the active use of German in the classroom.

Texts: Werba, *Basic conversational German Workbook*.

Members of the Department.

(3-1; 3-1)

N.B. Credit cannot be granted for both German 100 and German 140.

GERM 140. (3) Elementary German

Survey of grammar; readings in German literature; practice in spoken and written German; films on German-speaking countries. (For students who have completed one or two years of German in secondary school, and for students whose standing in Beginners' German is unsatisfactory for admission to a higher course).

Texts: Kurtz and Politzer, *German*; Vail, Sparks, *Der Weg zum Lesen*.

Members of the Department.

(3-1; 3-1)

INTERMEDIATE AND ADVANCED COURSES

GERM 200 (formerly 290). (3) Intermediate German

Using such diversified approaches as conversation groups, reading and analysis of modern prose, and basic exercises in simultaneous interpretation, this course aims at improving the student's practical mastery of the spoken and written language. The course commences at the level attained in German 100. (Not open to students who have credit for German 290.)

Prerequisite: German 100 or 140 or equivalent.

Texts: Werba, *Intermediate German*.

Dr. Hadley.

(3-1; 3-1)

GERM 201 (formerly 240). (3) Survey of German Culture

General survey of the German cultural heritage through readings, films, music, etc. (Not open to students who have credit for German 240.)

Prerequisite: German 100 or 140 or equivalent; German 200 is normally prerequisite to, or co-requisite with this course.

Texts: MacLean, Kriegel, Hartmanshenn, *2000 Jahre deutsches Leben*; Steinhauer, *Kulturlesebuch für Anfänger*.

Dr. Picozzi.

(3-1; 3-1)

GERM 202 (formerly 260). (3) Introduction to German Literature

Literary readings with emphasis on modern period. (Not open to students who have credit for German 260.)

Texts: Frisch, *Biedermann und die Brandstifter*; Dürrenmatt, *Besuch der alten Dame*; Böll, *Vier Hörspiele*; Brecht, *Lehrstücke*.

Dr. Riedel.

(3-1; 3-1)

Normally a student may elect TWO ONLY of the Intermediate Courses, German 200, 201, 202 in any one year.

GERM 295. (3) German Literature and Music

A study of the close relationship between German literature and music. The course will illustrate the twin themes of literature in music and music in literature. Texts which have musical settings and compositions which appear in literary works will be discussed. This course is designed to provide a general cultural background for students interested in more than one field. A knowledge of German, or musical training is not required, although General, Major, or Honours students of German should do the reading in the original German.

Prerequisite: Open to any of the following groups of students:

- (a) Any student who has been exempted from, or who has successfully completed first year English or equivalent.
- (b) Any student enrolled in the Department of Music, Faculty of Fine Arts.

(c) General, Major or Honours students of German by permission of the Department, as an elective.

Dr. Haimberger. (3-0; 3-0)

GERM 300 (formerly 302). (3) Advanced Composition, Stylistics, and Translation (I)

The aims of this course are to develop the student's mastery of the German language by intensive practice in the use of idiom in oral and written composition, translation, style analysis, and to introduce him to simultaneous interpretation in the Language Laboratory.

Prerequisite: German 200 or equivalent.

Texts: Koepke, *Die Deutschen*; Steinhauer, *Stilvolles Deutsch*.

Dr. Symington. (3-1; 3-1)

GERM 310. (3) German Literature in English Translation

A study of major authors from the 18th Century to the present day.

Prerequisite: English 100, or English 120. This course is intended as an elective for students in any faculty. **Knowledge of German is not required.** Open to Major and Honours students in German by permission, as an elective only.

Texts: Goethe, *Great Writings of Goethe*; Goethe, *Sufferings of Young Werther*; Bentley, ed. *The Classical Theatre*, Vol. II; Spender, ed. *Great German Short Stories*; Hauptmann, *The Weavers*; Mann, *Tonio Kröger & other Stories*; Kafka, *The Penal Colony and Other Stories*; Hesse, *Steppenwolf*; Brecht, *The Life of Galileo*; Frisch, *The Fire bugs*; Dürrenmatt, *The Visit*; Weiss, *Marat/Sade*.

Dr. Picozzi. (3-0; 3-0)

GERM 320. (3) German Novel in Translation

A study of selected major works, emphasizing the principal authors and trends in the development of the genre. The novel will be approached both as an art form and a social document, and will be examined within a broad cultural context.

Prerequisite: English 110 or 120. This course is intended as an elective for students in any faculty. **Knowledge of German is not required.** Open to Major and Honours students in German by permission, as an elective only.

Texts: A selection from von Eschenbach, *Parzival*; or, Strassburg, *Tristan*; Grimmshausen, *Adventurous Simplicissimus*, (also available as *Simplicius Simplicissimus*); Goethe, *Sufferings of Young Werther*; Hölderlin, *Hyperion, or the Hermit in Greece*; Ludwig, *Between Heaven and Earth*; Fontane, *Effi Briest*; Kafka, *The Castle*; Mann, *The Magic Mountain*; Hesse, *Magister Ludi*; Frisch, *Stiller*, and others.

(Not offered 1974-75.) (3-0; 3-0)

GERM 390 (formerly 190). (3) German Reading Course

Rapid survey of grammar, reading of general and scientific articles, designed to meet the needs of students who have no knowledge of German, but want to gain reading comprehension in a special field. Limited normally to students in 3rd or 4th year or in graduate studies. (Credit cannot be granted both for German 100 [or 140] and 390).

Texts: Harry Steinhauer, *Read, Write, Speak German*; MacLean, Kriegel, Hartmanshenn, *2000 Jahre deutsches Leben*; additional reading material on astronomy, chemistry, ecology, history, linguistics, anthropology, philosophy, physics, psychology, sociology, or other area readings as required will be provided by the Department.

Dr. Hartmanshenn. (3-0; 3-0)

GERM 400. (3) Advanced Composition, Stylistics and Translation (II)

The aim of this course is to advance the student's mastery of the German language by intensive practice in the use of idiom in oral and written composition, advanced translation, style analysis, and by continuing work in simultaneous interpretation in the Language Laboratory.

Prerequisite: German 300 (formerly 302).

Text: To be announced.

Dr. Riedel. (3-1; 3-1)

GERM 401. (3) Modern German Literature (1880-1945)

Representative literary texts will be discussed with reference to social and intellectual background; comparisons with works in Literatures other than German will be made; manifestations of Naturalism, Expressionism and Symbolism in art-forms other than literature will also be studied.

Texts: Hauptmann, *Vor Sonnenaufgang*, *Die Weber*; Wedekind, *Frühlings Erwachen*; Kaiser, *Von morgens bis mitternachts*, *Die Bürger von Calais*; Kafka, *Die Verwandlung*; Schnitzler, *Liebelein*; Hofmannsthal, *Tor und Tod*, *Jedermann*; Thomas Mann, *Tonio Kröger*, *Tod in Venedig*; Hesse, *Der Steppenwolf*; Brecht, *Die Dreigroschenoper*; Zuckmayer, *Der Hauptmann von Köpenick*; Bergengruen, *Die Feuerprobe*.

Dr. Riedel.

(3-0; 3-0)

GERM 402. (3) Contemporary German Literature (1945 to the present)

The course will investigate some of the significant and representative works of German literature since 1945. These works will be considered in the light of political, social, and intellectual developments in Post-War Germany.

Texts: Borchert, *Draussen vor der Tür*, *Ausgewählte Erzählungen*; Böll, *Der Zug war pünktlich*; Frisch, *Die chinesische Mauer*, *Andorra*; Dürrenmatt, *Die Physiker*; Hochwälder, *Das heilige Experiment*; Grass, *Katz und Maus*; Weiss, *Marat/Sade*, and others.

(Not offered 1974-75.)

(3-0; 3-0)

GERM 404. (3) The Romantic Movement

A study of prose and poetry of the period. Attention will also be given to the historic, social, artistic, religious and philosophical background.

Texts: Stenzel, *Die deutschen Romantiker* (Vols. I and II). Additional works will be announced.

(Not offered 1974-75.)

(3-0; 3-0)

GERM 408. (3) German Poetry from 1830 to the Present

Studies in Realism, Naturalism, Impressionism, Expressionism, and contemporary trends in German poetry.

Texts: Mörike, *Poems* (Blackwell's, Oxford); Heine, *Buch der Lieder* (Goldmanns Taschenbücher); C. F. Meyer, *Gedichte* (Goldmanns Taschenbücher); R. M. Rilke, *Poems* (Clarendon, Oxford); Heym, *Gedichte* (Fischer Bücherei); Benn, *Selected Poems* (Oxford); Nelly Sachs, *Ausgewählte Gedichte* (Suhrkamp); other selections may be announced.

Dr. Hadley.

(3-0; 3-0)

GERM 410. (3) The Classical Period

Literature of the eighteenth and early nineteenth century with emphasis on the works of Lessing, Schiller and Goethe.

Texts: Lessing, *Nathan der Weise*; Schiller, *Gedichte*; Schiller, *Die Jungfrau von Orleans*; Boyd, *Goethe's Poems*; Goethe, *Faust I* and *Auswahl aus Teil II*; Goethe, *Hermann und Dorothea*; Friedenthal, *Goethe, sein Leben und seine Zeit*.

Dr. Hartmanshenn.

(3-0; 3-0)

GERM 412. (3) Baroque to Sturm und Drang

A survey of German poetry, drama, prose fiction and literary theory from the early seventeenth century (Baroque period) to the Enlightenment and the Storm and Stress movement. Comparisons with other contemporary art forms (e.g. painting, music, architecture) will be made.

Texts: H. Cysarz (ed.), *Deutsche Barocklyrik*; Grimmelshausen, *Der abenteuerliche Simplicissimus*; Gryphius, *Herr Peter Squenz*; Lohenstein, *Cleopatra*; Lessing, *Kritik und Dramaturgie*, *Die Erziehung des Menschengeschlechts*, *Emilia Galotti*; Daly, Doerksen, *Sturm und Drang*; Schiller, *Die Räuber*, and others.

(Not offered 1974-75.)

(3-0; 3-0)

GERM 413 (formerly 400). (3) Nineteenth-Century German Literature

An investigation of major and representative works of the nineteenth century with emphasis on the drama. The works will be considered against the intellectual and social background of the Age. Some of the questions to be pursued are: reactions to the Romantic movement; the rise of Realism; the political and social involvement of the younger writers; Biedermeier and the reflection of social values in literature; the effects of the Industrial Revolution on writers; the schism between urban and rural life; pessimistic determinism and optimistic materialism; regional literature, etc. Texts: Feise-Steinhauer, *German Literature since Goethe*, Part I. *The Liberal Age 1830-1870*. Additional texts will be announced.

Dr. Hartmanshenn.

(3-0; 3-0)

GERM 417. (3) The German Novelle

A study of the development of the German Novelle from Goethe to the present day. Texts: Representative *Novellen* from the works of Goethe, Eichendorff, Kleist, Büchner, Tieck, Gotthelf, Droste-Hülshoff, Stifter, Grillparzer, Keller, Raabe, Meyer, Storm, Mann, Kafka, and other modern writers.

(Not offered 1974-75.)

(3-0; 3-0)

GERM 430. (3) Directed Reading Course

(By permission, for Honours or Major students.)

(3-0; 3-0)

GERM 490. (3) Honours Seminar

(The Seminar may include a graduating essay.)

In 1974-75 the seminar will deal with representative works of Bertolt Brecht.

Dr. Symington.

(3-0; 3-0)

DEPARTMENT OF HISPANIC AND ITALIAN STUDIES

Pablo Cabañas, Lic., D.F.L. (*Madrid*), Professor (Spanish).

Roberto Bruni, Dottore (*Pisa*), Assistant Professor (Italian).

Ross E. Butler, B.A., M.A. (*Ore.*), Ph.D. (*Arizona*), Assistant Professor (Spanish and Portuguese).

Robert M. Flores, B.A., M.A. (*Ore.*), Ph.D. (*Cantab.*), Assistant Professor (Spanish).

David F. Henn, B.A., M.A. (*Durham*), Assistant Professor (Spanish).

Jerrold L. Mordaunt, B.A., M.A. (*Utah*), Ph.D. (*Stanford*), Assistant Professor (Spanish).

David C. McDougall, B.A., M.A. (*Sheffield*), Lecturer (Spanish). (Leave of absence 1974-75.)

GENERAL, MAJOR AND HONOURS PROGRAMMES

NOTE: All students planning to take a concentration in a general programme or Majors or Honours in the Department of Hispanic and Italian Studies must take English at the 200 level and either Linguistics 100 or Linguistics 360.

Students wishing to take courses in Spanish at the Third and Fourth Year level are reminded that they must have the prerequisites of the first two years, including Spanish 290.

Students wishing to take Third and Fourth Year courses to meet requirements for a B.A. degree on the General, Major or Honours Programme, must satisfy the Department that they have satisfactory standing in appropriate courses at the 200 level. Spanish 290 should be taken in the Second Year and Spanish 302 in the Third Year. Students doing a General or Major in Spanish may take Spanish 260 in either the Second or Third Year.

An Honours programme in the Department of Hispanic and Italian Studies normally requires a total of 66 units over a four-year period.

Students specializing in Spanish (including Honours), will find that they have sufficient electives to enable them to concentrate in a second field—for example, another language, Classics, English, History, Linguistics. A wise selection of courses is particularly important to those who may wish to enter graduate school, teaching, library work, government service, etc. The Department Chairman will be happy to assist students with their selection of courses.

PROGRAMMES IN SPANISH

General—First Year: Spanish 100; Second Year: Spanish 260 and 290; Third and Fourth Years: Spanish 302 and six units of Spanish courses numbered 400 or above.

Major—First Year: Spanish 100; Second Year: Spanish 260 and 290; Third and Fourth Years: Spanish 302 and twelve units in Spanish courses numbered 400 or higher.

Honours—First Year: Spanish 100; Second Year: Spanish 260 and 290; Third and Fourth Years: Spanish 302 and at least fifteen units of courses numbered 400 or higher.

COURSES

SPANISH

SPAN 100. (3) Beginners' Spanish

Intensive oral method with grammar, composition, translation, and work in the language laboratory.

Texts: To be announced.

Members of the Department.

(3-1; 3-1)

SPAN 240. (3) Intermediate Spanish

Conversation, composition and grammar.

Texts: Bourne, et al., *El español: la teoría y la práctica*; Usigli, *El gesticulador*; Altabé, *Temas y diálogos*.

Dr. Butler.

(4-0; 4-0)

(NOTE: Students who intend to do major or honours work in Spanish should take SPAN 260 and SPAN 290).

SPAN 260. (3) Introduction to the Literature of Spain and Spanish America

(For students who intend to do major or honours work in Spanish. May also be taken as an elective.)

Study of modern authors, composition, and assigned themes.

Texts: Calderón, *El alcalde de Zalamea*, ed. Dunn (Pergamon); García Lorca, *Yerma*; Azuela, *Los de abajo*; Sender, *Réquiem por un campesino español*; and an anthology to be announced.

Mr. Henn.

(4-0; 4-0)

SPAN 290. (3) Review Grammar and Conversation

(For students who intend to do major or honours work in Spanish.) This course should be taken in the Second Year. May also be taken as an elective.

Intensive review of grammar. Detailed study of the Spanish language.

Texts: Lester and Terrádez, *Essential Spanish*; *Penguin Spanish Reader*. (4-0; 4-0)

SPAN 302. (3) Advanced Composition and Stylistics

Intensive training in oral and written composition.

Text: Neale-Silva, *Lengua hispánica moderna*; Crow-Dudley, *El cuento*.

Dr. Flores.

(4-0; 4-0)

SPAN 310. (1½) Spanish Literature in English Translation I

A study of main works of Spanish literature from medieval times up to the end of the 17th Century. This course is intended as an elective for students in any faculty. **Knowledge of Spanish is not required.** Open to Major and Honours students in Spanish by permission as an elective only.

(Not offered 1974-75.)

September-December only. (3-0)

SPAN 311. (1½) Spanish Literature in English Translation II

A study of main works of Spanish literature from the 18th Century to the present day. This course is intended as an elective for students in any faculty. **Knowledge of Spanish is not required.** Open to Major and Honours students by permission as an elective only.

(Not offered 1974-75.)

January-April only. (3-0)

SPAN 400. (3) The Spanish Realist Novel of the Nineteenth Century

Development of the Spanish novel from Romanticism to the end of the Nineteenth Century.

Students will be required to write essays on novels by Valera, Galdós, Pereda and Clarín.

Texts: Juan Valera, *Pepita Jiménez*; Galdós, *Marianela*, *La de Bringas*, *Miau*, *Misericordia*; Pereda, *Sotileza*; Clarín, *La Regenta*.

Dr. Cabañas.

(3-0; 3-0)

SPAN 401. (3) The Generation of 1898

A study of Spanish authors who sought a solution to the problems of Spain which followed the Spanish-American War.

Students will be required to write essays on the prescribed texts.

(Not offered 1974-75.)

(3-0; 3-0)

SPAN 402. (3) Cervantes

The life and works of Cervantes, with emphasis on *Don Quijote* and selected *Novelas ejemplares*.

Texts: Miguel de Cervantes, *Don Quijote de la Mancha*, *Novelas ejemplares*, *Entremeses* (Clásicos Castellanos).

(Not offered 1974-75.)

(3-0; 3-0)

SPAN 403. (3) Golden Age Poetry

Spanish poetry of the Golden Age (Sixteenth and Seventeenth Centuries).

Not open to students who have credit in Spanish 403 prior to 1974-75.

Texts: Arthur Terry, *An Anthology of Spanish Poetry*, (Pergamon — 2 vols.); Garcilaso de la Vega, *Poesías castellanas completas* (Castalia); Fray Luis de León, *The Original Poems* (Manchester University Press); Fernando de Herrera, *Poesías* (Clásicos Castellanos); Luis de Góngora, *Sonetos completos* (Clásicos Castalia).

Dr. Cabañas.

(3-0; 3-0)

SPAN 405.(3) The Golden Age Novel, Excepting Cervantes

Development of the Spanish novel from the beginning of the sixteenth century to the end of the seventeenth century.

Texts: *Amadís de Gaula*; Montemayor, *La Diana*; *El Abencerraje*; *Lazarillo de Tormes*; Alemán, *Guzmán de Alfarache*; Quevedo, *El Buscón*.

(Not offered 1974-75.)

(3-0; 3-0)

SPAN 406. (3) Medieval Literature

Study of Spanish language and literature from 1140 to 1500.

Texts: López Estrada, *Introducción a la literatura medieval española*; Kohler, ed., *Antología de la literatura española de la Edad Media*.

(Not offered 1974-75.)

(3-0; 3-0)

SPAN 410. (3) Spanish Literature, 1700-1898

Main currents of the eighteenth and nineteenth centuries: Neo-Classicism, Romanticism, Realism.

Students will be required to write essays on the prescribed texts.

Texts: Meléndez Valdés, *Poesías*; Moratín, *La comedia nueva*, *El sí de las niñas*; Espronceda, *Poesías*, *El estudiante de Salamanca*; Zorilla, *Don Juan Tenorio*; Galdós, *Fortunata y Jacinta*.

(May be offered 1974-75.)

(3-0; 3-0)

SPAN 412. (3) Twentieth Century Spanish Literature

A study of the main trends in 20th century Poetry, Drama and Prose with particular reference to texts detailed below.

Students will be required to write essays on the prescribed texts.

(Not offered 1974-75.)

(3-0; 3-0)

SPAN 413. (3) Golden Age Drama

Spanish Drama of the Golden Age, with emphasis on Lope de Vega, Tirso de Molina and Calderón de la Barca.

Not open to students who have credit in Spanish 403 prior to 1974-75.

Texts: Tirso de Molina, *El vergonzoso en palacio* and *El burlador de Sevilla*; Calderón de la Barca, *La vida es sueño*, *El alcalde de Zalamea*, *El médico de su honra*, and *El pintor de su deshonra*; Lope de Vega, *Peribáñez y el comendador de Ocaña* and *La dama boba* (Clásicos Castellanos).

Dr. Flores. (3-0; 3-0)

SPAN 414. (3) Literature of Spanish America I

The literature and literary trends of Spanish America from 1492 to c. 1880.

Texts: Cortés, *Cartas de relación*; Inca Garcilaso, *Comentarios reales*; Sor Juana, *Obras escogidas*; Lizardi, *El periquillo sarniento*; and others.

Dr. Butler. (3-0; 3-0)

SPAN 415 (formerly 404). (3) Literature of Spanish America, II

The literature and literary trends of Spanish America from c. 1880 to the present.

Not open to students who have credit in Spanish 404 prior to 1974-75.

(Not offered 1974-75.) (3-0; 3-0)

SPAN 425. (3) History of the Spanish Language

A study of the development of the Spanish language from its beginnings to the present day.

Prerequisite: 200 level in Spanish, including Spanish 290.

Texts: Spaulding, *How Spanish Grew*; Lapesa, *Historia de la lengua española*.

Dr. Mordaunt. (3-0; 3-0)

SPAN 430. (3) Directed Reading Course

For Honours and Major students.

(Not offered in 1974-75.) (3-0; 3-0)

PORTUGUESE

PORT 100. (3) First Year Portuguese

Intensive oral method with grammar, composition, translation and work in the Language Laboratory.

Text: Modern Language Association, *Modern Portuguese*.

(Not offered 1974-75.) (3-1; 3-1)

PORT 200. (3) Second Year Portuguese

Intensive oral method, review of grammar, composition, translation, and work in the Language Laboratory.

Prerequisite: First year Portuguese or equivalent.

Text: To be announced.

(Not offered 1974-75.) (3-1; 3-1)

ITALIAN

ITAL 100. (3) First Year Italian

Introduction to the language with conversation, grammar, reading exercises, practice in the language laboratory, and filmed presentations in Italian.

Text: Milesi, *Italiano Vivo*.

Dr. Bruni. (3-1; 3-1)

ITAL 200. (3) Second Year Italian

Review of grammatical exercises; practice in language laboratory, filmed presentations in Italian, conversation.

Text: Milesi, *Italiano Vivo*.

(3-1; 3-1)

ITAL 302. (3) Advanced Composition and Stylistics

Intensive training in oral and written composition.

Text: Milesi, *Italiano Vivo*.

Dr. Bruni.

(3-0; 3-0)

ITAL 403. (3) Introduction to Medieval and Renaissance Italian Literature

A study of Italian literature from the Thirteenth to the Sixteenth Century inclusive: the origins of Italian lyric poetry; Dante, Petrarca, Boccaccio and the novella; Machiavelli, Guicciardini, Castiglione, etc. Taught in English. Some knowledge of Italian recommended.

Prerequisites: Open to Third and Fourth Year students and others with the permission of the instructor.

Texts: Boccaccio, *The Decameron* (Penguin Classics); Machiavelli, *The Prince* (Penguin Classics); Dante, *Inferno* (transl. by M. Musa).

Dr. Bruni.

(3-0; 3-0)

DEPARTMENT OF HISTORY

- Sydney W. Jackman, B.S., M.A. (*Wash.*), A.M., Ph.D. (*Harvard*), F.S.A., F.R.Hist.S., Professor.
- Reginald H. Roy, C.D., B.A., M.A. (*Brit. Col.*), Ph.D. (*Wash.*), F.R.Hist.S., Professor.
- James E. Hendrickson, B.A. (*Sask.*), B.Ed. (*Alta.*), M.A., Ph.D. (*Ore.*), Associate Professor.
- Alfred E. Loft, B.A. (*Brit. Col.*), Associate Professor. (On study leave 1974-75.)
- W. George Shelton, B.A., M.A. (*Man.*), Ph.D. (*Pa.*), Associate Professor.
- Brian W. Dippie, B.A. (*Alta.*), M.A. (*Wyoming*), Ph.D. (*Texas*), Assistant Professor.
- Charlotte S. M. Girard, B.A. (*Brit. Col.*), M.A., Ph.D. (*Bryn Mawr*), Assistant Professor.
- Jan Kupp, B.A., M.A., Ph.D. (*Man.*), Assistant Professor.
- Robert J. McCue, B.A., B.Ed. (*Alta.*), M.A., Ph.D. (*Brigham Young*), Assistant Professor.
- John Money, B.A., M.A., Ph.D. (*Cantab.*), Assistant Professor.
- Patricia E. Roy, B.A. (*Brit. Col.*), M.A. (*Tor.*), Ph.D. (*Brit. Col.*), Assistant Professor.
- Donald L. Senese, A.B., Ph.D. (*Harvard*), Assistant Professor.
- David A. T. Stafford, B.A., M.A. (*Cantab.*), Ph.D. (*London*), Assistant Professor.
- E. Patricia Tsurumi, B.A. (*Brit. Col.*), A.M., Ph.D. (*Harvard*), Assistant Professor. (Leave of absence 1974-75.)
- Wesley T. Wooley, A.B. (*Ill.*), A.M., Ph.D. (*Chicago*), Assistant Professor. (On study leave 1974-75.)
- Harry J. Bridgman, B.A. (*Brit. Col.*), M.A. (*Queen's*), Lecturer. (Leave of absence 1974-75.)
- Charles W. Cowan, B.A. (*Alta.*), Lecturer.
- Ernest R. Forbes, B.A. (*Mt. Allison*), M.A. (*Dalhousie*), Lecturer.
- Phyllis M. Sherrin, B.A. (*Tor.*), M.A. (*Carleton*), Lecturer.

GRADUATE PROGRAMME

The Department offers opportunities for study and research leading to the M.A. degree. For further information about the Graduate Programme, see page 335 of this calendar and consult the departmental Graduate adviser.

UNDERGRADUATE PROGRAMMES

The Department offers undergraduate course work at two levels: introductory courses at the 200 level, open to first and second year students; and advanced courses at the 300 and 400 level, open to students in both third and fourth years. Students are strongly advised to complete introductory courses in a given area before undertaking advanced courses in the same area. Students may not enrol in introductory courses after completing an advanced course in the same area; students may not enrol concurrently in introductory and advanced courses in the same area without written permission from the instructor in the advanced course. Please note that enrolment in seminars is limited and that the consent of the instructor is required for registration. In some instances, seminars in the fall term may be offered again in the spring term if there is sufficient demand.

All history courses require substantial written and reading assignments. Information about textbooks in all courses is available from the bookstore.

GENERAL

The General Programme consists of any 9 units of history courses numbered 300 and above in the third and fourth years. Students entering the General Programme should normally complete 6 units of introductory history courses in the first and second years.

MAJOR

To be admitted to the Major Programme, a student should have a C average in 6 units of introductory history courses. In his third and fourth year, the student must take a minimum of 15 units in history courses numbered 300 and above. Of these 15 units, a minimum of 6 and a maximum of 12 units should be selected from one area of interest. In addition, 9 units of non-history courses must be selected in consultation with the department adviser to Majors. Students interested in majoring in history are advised to consult the Majors adviser in their first year if possible. Majors must have their third and fourth year programmes approved by the Majors adviser.

HONOURS

In the Honours Programme, students have the opportunity to study history more independently and intensively than is normally possible in the Major and General Programmes. Through small seminars, directed readings, and individual instruction in writing and research, the Honours Programme encourages students to think critically and to deepen their understanding of both the content and the craft of history. While the primary intent of the Honours Programme is to help any interested and talented student of history achieve an excellent education in the liberal arts, the Programme should be especially useful for students contemplating graduate work in history or careers in high school teaching, journalism, law, library science, or government service.

The Honours Programme normally consists of 33 units of course work in the combined third and fourth years as follows:

Third Year		Fourth Year	
History 491 (Seminar)	1½ units	History 491 (Seminar)	1½ units
History 498	1½ units	History 499 (Essay)	4½ units
Advanced History	9 units	Advanced History	3 units
Related non-History	3 units	Related non-History	3 units
Elective	3 units	Elective	3 units
	18 units		15 units

In addition, Honours candidates before graduation must demonstrate a reading knowledge of a language other than English by passing (with at least a "C") either a two hundred level language course or a special language examination.

Admission to the Honours Programme requires a high second class standing in six units of history courses or seminars. Applications for admission should normally be made in the spring, during the student's second year of study, although a small number of third year applications may also be accepted.

Honours candidates are required to have their programme of courses approved by the Honours adviser. To avoid overspecialization, Honours students are encouraged to study more than one area of history and to choose several courses outside the Department of History. Candidates whose performance is unsatisfactory may be required at any time to transfer from the Honours to the Major Programme. Admission to the fourth year of the Honours Programme is conditional upon satisfactory performance in the third year.

First and second class honours degrees may be awarded. A first class degree requires a first class graduating average and at least a B+ in History 499. A second class degree requires a second class graduating average and at least a C+ in History 499.

UNDERGRADUATE COURSES

Unless indicated otherwise, courses begin in September and end in April.

INTRODUCTORY COURSES

Please note — first year students may enrol in introductory courses at the 200 level.

HIST 205. (3) Introduction to History

This course is designed to introduce students to the kinds of questions historians ask about the past. The subject matter may vary according to the particular area of specialization of the instructor, and students are advised to consult the Department about the specific topic to be considered in any given year.

(Not offered in 1974-75.)

(3-0; 3-0)

HIST 210 (formerly 212). (3) History of the United States

A general survey of the history of the United States of America from the colonial period to the present. This course is strongly recommended to students wishing to take advanced courses in American history.

Dr. Hendrickson.

(3-0; 3-0)

HIST 220 (formerly 201). (3) History of England

History 220 is designed as a course for those who wish some acquaintance with the broad sweep of British history since the Norman Conquest. It may be used as a terminal course, complete in itself, or it may be used as a preliminary to more intensive study. This course is strongly recommended to students wishing to take advanced courses in British history.

Dr. Money.

(3-0; 3-0)

HIST 230 (formerly 102). (3) History of Canada

A survey of Canadian development from the beginnings of the French regime to the present. This course is strongly recommended to students wishing to take advanced courses in Canadian history.

Members of the Department.

(3-0; 3-0)

HIST 234 (formerly 400). (3) Main Currents of Western Thought

A survey of the most influential ideas and intellectual movements of western culture from their origins, in Greece and the Middle East, to recent times. Not open to students who have credit for History 400.

Dr. Shelton.

(3-0; 3-0)

HIST 236. (3) A Study of European Civilization from the Council of Nicea (325 AD) to the Congress of Vienna (1815): Doubt, Inquiry, and Affirmation

This course will serve to provide a general introduction to the study of European Civilization and the origins of Western society. The lectures will consider various aspects of European society in its political, cultural, intellectual, social, and religious manifestations. This course, or History 240, is strongly recommended to students wishing to take advanced courses in European history. There are no prerequisites. Not open to students who have credit for or are currently enrolled in History 240.

Dr. Jackman.

(3-0; 3-0)

HIST 240 (formerly 200). (3) History of Modern Europe

After providing a brief background in medieval institutions, this course surveys European history from the Renaissance to the early twentieth century. The lectures will focus on political, intellectual, cultural, and social aspects of European society and the modern state as it emerges in the contemporary world. This course, or History 236, is strongly recommended to students wishing to take advanced courses in European history. There are no prerequisites. Not open to students who have credit for or are currently enrolled in History 236.

Dr. Girard, Dr. McCue.

(3-0; 3-0)

NOTE: History 236 and History 240 are both introductory courses to European history and as such are recommended to all Major and Honours candidates as well as to students who are not intending to specialize in history. The emphasis, however, is different: History 236 concentrates on the earlier period (i.e. the fourth to eighteenth centuries) whereas History 240 emphasises the period from the fifteenth to the early twentieth centuries. Students may not enrol in both courses.

HIST 242 (formerly 101). (3) Main Currents in Twentieth Century History

This course offers a background for contemporary world problems, surveying major historical developments of the twentieth century.

Members of the Department. (3-0; 3-0)

HIST 250 (formerly 111). (3) Europe and a Wider World, 1415-1808

A survey of the first colonial empires in Asia, America, and Africa; from the Age of Discovery to the colonial American revolutions. This course is strongly recommended to students wishing to take advanced courses in the expansion of Europe.

(Not offered 1974-75.) (3-0; 3-0)

HIST 252. (3) History of the Far East

An introduction to the political, social, economic, and philosophical developments in the Far East. (3-0; 3-0)

ADVANCED COURSES

AMERICAN

HIST 300 (formerly 401; 311). (3) Colonial North America

The British American colonies from their founding to the disruption of the first British Empire, with emphasis on intellectual, social, and economic development.

(Not offered in 1974-75.) (3-0; 3-0)

HIST 301 (formerly 312). (3) The United States in the Nineteenth Century

A study of the social, political, cultural, and economic development of the United States in the period from the framing of the Constitution to the Spanish-American War, with particular concentration on certain significant themes.

Dr. Dippie. (3-0; 3-0)

HIST 304 (formerly 412). (3) The United States in the Twentieth Century

A study of the personalities and problems of the United States in the twentieth century. The course will emphasize the reform tradition from the Progressive movement to the Great Society. Diplomatic, economic, and social developments will be surveyed.

(Not offered 1974-75.) (3-0; 3-0)

HIST 306. (1½) American History Since 1945

A half-year lecture course. A study of American diplomacy, politics, and society since the Second World War. The course will include such topics as the Negro revolt, the post-war economy, the fate of liberal reform, as well as trends in American literature, art, music, and religion.

(Not offered 1974-75.) (3-0)

HIST 308 (formerly 428). (3) American Intellectual History

A study of the evolution of American institutions and ideas. Emphasis will be given to selected aspects of the nation's cultural life.

Dr. Dippie. (3-0; 3-0)

HIST 310 (formerly 403). (3) The American West

The frontier in American history, the Trans-Mississippi West with emphasis on the Far West.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 315 (formerly 430). (3) American Diplomatic History

A study of American foreign relations with emphasis on the twentieth century and the history of American diplomatic thought.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 319. (1½ or 3) Seminar in American History

Selected topics in American history. Enrolment limited, and consent of instructor required for registration. Students are advised to consult the Department about the specific topics to be considered.

(Not offered 1974-75.)

(3-0) or (3-0; 3-0)

BRITISH

HIST 321 (formerly 318). (3) England, 1485-1660

England from Medieval Monarchy to political revolution: an intensive study of English history from the end of the War of Roses to the Civil War, Commonwealth, and Restoration of Charles II.

Dr. Money.

(3-0; 3-0)

HIST 323 (formerly 418). (3) Britain, 1660-1815

Britain from political to industrial revolution: an intensive study of the roots of political stability and of social change, and of the consequences of their interaction in Britain during the later seventeenth and eighteenth centuries.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 325 (formerly 419). (3) Britain, 1815-1914

Great Britain, industry and empire: an intensive study of British history during the nineteenth century.

Dr. Jackman.

(3-0; 3-0)

HIST 327 (formerly 421). (3) Twentieth Century Britain

Britain in the twentieth century—war, labour, and the aftermath of empire. The course may be a combination of lectures and class discussion. Topics to be investigated may vary from year to year, but will always include foreign policy, the rise of the Labour Party, and economic affairs.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 330 (formerly 402; 411). (3) Empire and Commonwealth

A study of British imperial evolution from the disruption of the First British Empire to the present.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 338. (1½ or 3) Seminar in British History

Selected topics in British history. Enrolment limited and consent of instructor required for registration. Not open to students who have credit for History 327.

(Not offered 1974-75.)

(3-0; 3-0)

CANADIAN

HIST 340 (formerly 302). (3) New France

A study of the history of the French regime in Canada from 1500 to 1763. The course will deal with the economic, social, and political aspects of the history of New France, as well as the forces in New England, France, and Holland that influenced the development of New France.

Dr. Kupp.

(3-0; 3-0)

HIST 342 (formerly 326). (3) British North America, Conquest to Confederation

A combination of lectures and seminars examining the development of the economy, society, and culture of the area comprising present-day Ontario, Quebec, and the Maritimes. Particular emphasis will be placed upon the emergence of distinct social and cultural entities in each of these areas.

(3-0; 3-0)

HIST 344 (formerly 426). (3) Canada Since Confederation

A study of recurring themes and problems in Canadian history including national policies, French-English tensions, federal-provincial conflicts, and external relations. Attention will be given to the social and economic background of these problems as well as to their political manifestations.

Mr. Forbes.

(3-0; 3-0)

HIST 348. (3) Social and Intellectual History of Canada

A thematic study of the major intellectual and social attitudes, values, assumptions, and expectations in nineteenth- and twentieth-century Canada. Students will examine original works by Canadians in a number of disciplines including history, politics, the social sciences, literature and art. A reading knowledge of French is recommended but not required.

Prerequisite: History 230 or written consent of the instructor.

Ms. Sherrin.

(3-0; 3-0)

HIST 350 (formerly 303). (3) The Canadian West

After a brief sketch of the fur trade and early settlement, this course concentrates on the history of the West after 1870-1871. Among the themes examined are the relationships of the region with the federal government, economic development, and the effects of immigration. Approximately two-thirds of the course is devoted to the prairie region and one-third to British Columbia.

Students may not take both HIST 350 and 355 (British Columbia since 1885) without the written consent of the instructor.

Dr. P. E. Roy.

(3-0; 3-0)

HIST 352. (3) French Canada

A thematic study of French Canada stressing patterns in intellectual, social, and economic development, emphasizing the nineteenth and twentieth centuries. A reading knowledge of French is strongly recommended but not required.

Prerequisite: History 230 or written consent of the instructor.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 354. (1½) British Columbia to 1900

British Columbia from the coming of the white man to the emergence of provincial political parties about the end of the nineteenth century. An examination of the foundations of modern British Columbia, including such topics as early exploration and settlement, the role of the Hudson's Bay Company, the colonies of Vancouver Island and British Columbia, and the origins of institutional life.

Prerequisite: History 230 or written consent of the instructor.

Dr. Hendrickson.

September-December
may be January-April. (3-0)

HIST 355. (1½) British Columbia Since 1885

The emphasis will be on social, economic, and political developments within the province. Written assignments will be required.

Students may not take both History 350 and 355 without written consent of the instructor.

Dr. P. E. Roy.

January-April only. (3-0)

HIST 356 (formerly 420). (3) Canadian Constitutional History

A study of the evolution of the Canadian Constitution from 1763 to the present.

(3-0; 3-0)

HIST 358. (1½ or 3) Topics in Canadian History

An intensive study of selected aspects of Canadian history. Students are advised to consult the Department for an outline of the topics to be considered.

(May not be offered 1974-75.)

(3-0) or (3-0; 3-0)

HIST 359. (1½ or 3) Seminar in Canadian History

Selected topics in Canadian history. Enrolment limited and consent of instructor required for registration. For 1974-75 the seminar will be offered for 1½ units and the topic will be Canada in the Depression Years. Students will read some of the secondary literature on the subject and will prepare a research paper based on primary sources on some problem in British Columbia in the 1930's.

Dr. P. E. Roy.

September-December only. (3-0)

NOTE: History 494 may also be counted as a course in Canadian history.

EUROPEAN

HIST 360. (1½) The Renaissance

A study of the conditions, ideas, and men involved in the intellectual quickening that ushered in the early modern period of European history.

Dr. McCue.

September-December only. (3-0)

HIST 361. (1½) The Reformation

A history of the men, and the political and religious factors involved in the upheavals of the Protestant and Roman Catholic reformations.

Dr. McCue.

January-April only. (3-0)

HIST 362 (formerly 314). (3) Europe, 1648-1815

Europe from the Peace of Westphalia through the Age of Louis XIV and the Enlightenment, to the French Revolution, Napoleonic Wars, and Battle of Waterloo: a consideration of the dramatic changes in European civilization between Westphalia and Waterloo.

Dr. McCue.

(3-0; 3-0)

HIST 364 (formerly 415). (3) Europe in the Nineteenth Century

The evolution of Europe from 1815 to 1914, with special emphasis on the political, economic, and social history of the period.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 366. (3) Europe in the Twentieth Century

An examination of the changing nature of the relations between European states following the Treaty of Versailles and of the communication between these and major political, social, and economic changes. Approximately half the course will deal with the period since 1945.

Prerequisite: History 242 or written consent of the instructor.

Dr. Girard, Dr. Stafford.

(3-0; 3-0)

HIST 368. (3) Ideas and Events in Modern Europe

Political and social thought in Europe since the seventeenth century. The emphasis will be on the interaction between thinkers and their times, with the most significant ideas and intellectual movements being examined in their social and political contexts. Although special attention will be given to the origins of twentieth century conceptions of popular sovereignty, nationalism, revolution, and the state, other aspects of culture will also be discussed.

Dr. Shelton.

(3-0; 3-0)

HIST 370 (formerly 406). (3) France, 1789-1958

France from the end of the *Ancien Régime* to the advent of the Fourth Republic, a study in her political, social, cultural, and economic development. The emphasis will be upon the social and cultural aspects of the Third Republic (1870-1945). A reading knowledge of French is desirable but not required.

(Not offered 1974-75; will be offered 1975-76.)

(3-0; 3-0)

HIST 372. (3) Modern Germany, 1871-1961

The main theme of the course will be the "German problem," defined both in terms of Germany's internal political, social, and economic development, and in terms of its relations with the rest of Europe—a problem culminating in the Nazi period but not solved by the defeat of 1945. The course will therefore include consideration of post-war Germany.

Prerequisite: History 240 or 242, or written consent of the instructor.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 374 (formerly 317). (3) Imperial Russia, 1689-1917

A history of Russia from Peter the Great to the fall of the monarchy. The course traces the response of the Russian state and Russian society to changing national needs and the challenge of the West. Through reports and discussions, emphasis will be given to periods of rapid change.

Dr. Senese.

(3-0; 3-0)

HIST 376 (formerly 417). (1½) The Soviet Union

A history of the USSR from 1917 to the present. The course will analyze the forces that have moulded the policies of the Communist leadership and examine how these policies have affected the shape of Soviet society and the role of the Soviet Union in world affairs.

Dr. Senese.

September-December only. (3-0)

HIST 380. (3) Medieval Europe

A detailed study of selected problems in the history of Medieval Europe. Among the problems to be considered are the development of feudalism, manorialism, the Pirenne thesis, the investiture controversy, and the twelfth century renaissance. Students will be required to read intensively in the problem areas.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 389. (1½ or 3) Seminar in European History

Selected topics in European history. Enrolment limited and consent of instructor required for registration. For 1974-75 the seminar will be given 1½ units only and will examine Resistance Movements in Europe during World War II. It will be a comparative analysis of resistance movements with respect to their place within overall Allied Strategy, their contribution to intellectual resistance, and their political significance in formulating plans for post-war European society. A reading knowledge of French is strongly recommended but not required.

Dr. Stafford.

September-December
may be January-April. (3-0)

HIST 390 (formerly 339). (3) War in the Modern World, 1755 to the Present

A survey of European military history from the Seven Years' War to the present day. It covers the change from the limited warfare of the early eighteenth century to the unlimited warfare of the twentieth century. Emphasis is placed on the causes of war, the impact of new inventions on tactics and strategy, and the social, political, and economic results of wars on society up to and including the atomic age.

Dr. R. H. Roy.

(3-0; 3-0)

NOTE: For Major in European History, Classical Studies 330 or 340 may also be counted as a course in European History.

EXPANSION OF EUROPE

HIST 404. (1½) The Discovery and Conquest of Latin America, 1474-1551

The era of Columbus, Cortes, and Pizarro: an analysis of the motives for exploration and the techniques of discovery; and a survey of pre-Columbian American empires and the factors contributing to their conquest by the conquistadores.

(Not offered 1974-75.)

(3-0)

HIST 407. (3) Latin America Since 1808

The emergence of the independent republics of Latin America from Bolivar to the present. An inquiry into the revolutionary tradition of modern Latin America with particular emphasis on the struggle for independence, the phenomenon of military dictatorships, and the social changes associated with the Mexican Revolution of 1910 and the age of Fidel Castro. Particular emphasis will be given to events in the twentieth century and to the four republics of Mexico, Brazil, Argentina and Cuba.

(Not offered 1974-75.)

(3-0; 3-0)

HIST 409. (1½) European Imperialism, 1880-1914

A study of the last great age of imperialism before its disintegration at the Peace of Versailles. A survey of the economic, political, and strategic myths upon which imperialism depended and of the social and international consequences of the struggle for empire.

(Not offered 1974-75.)

(3-0; 3-0)

ASIAN

HIST 434. (3) Modern China

An intensive study of developments in China during the nineteenth and twentieth centuries.

(3-0; 3-0)

HIST 436 (formerly 414). (3) Modern Japan

Political, economic, social and cultural developments in Japan during the nineteenth and twentieth centuries. A study of the transformation of Japan from a feudal country to a modern industrial nation.

(Not offered 1974-75.)

(3-0; 3-0)

SPECIALIZED COURSES

HIST 490. (1½ or 3) Directed Reading

Students wishing to pursue a course of directed reading should, together with a Faculty member willing to supervise such a course, formulate a proposal describing both the content of the course and a suitable means of evaluating the student's work. The proposal must then receive the approval of the Chairman of the Department. Students may take this course for a total of 6 units, but not more than 3 units in any given year.

Members of the Department.

HIST 491 (formerly 333). (1½ or 3) Honours Seminar

A seminar devoted to studying the discipline of history. Students not in the Honours Programme may enrol in the seminar only with the consent of the instructor. The course is intended to be taken by Honours students in both the Third and Fourth years. The number of units to be offered in 1974-75 is 1½. (3-0)

HIST 492 (formerly 433). (1½ or 3) Seminar in Historiography

This course is designed to introduce students to the history of the writing of history. Enrolment limited and consent of instructor required for registration. (3-0) or (3-0; 3-0)
(Not offered 1974-75.)

HIST 493 (formerly 333). (1½) Seminar in Philosophy of History

A study of the various interpretations of the meaning and purpose of history. Enrolment limited and consent of instructor required for registration. (3-0; 3-0)
(Not offered in 1974-75.)

HIST 494 (formerly 439). (3) Seminar on Canadian Defence and External Policy, 1867-1967

An intensive study of selected aspects of Canada's role as a middle power. Emphasis will be given to the diplomatic, military, and strategic role of Canada during the twentieth century. Enrolment limited.

Prerequisites: History 230 or consent of instructor required.

Dr. R. H. Roy. (3-0; 3-0)

HIST 498. (1½) Honours Tutorial

Directed readings offered by the instructor supervising a student's graduating essay. Members of the Department.

HIST 499. (4½) Graduating Essay in Honours

The preparation of a research paper from 50-100 pages in length under the direction of a member of the Department. The essay must conform to acceptable standards of style and format, and is due one week before the final day of lectures. There is, in addition, an oral examination on the field covered in the graduating essay.

Members of the Department.

GRADUATE COURSES

Students should consult the Department concerning the courses offered in any given year.

HIST 510 (formerly 512). (3) Seminar in American History

A reading and research seminar. For 1974-75 the seminar will explore approaches in American cultural-intellectual history. Focus will be on racial thought in the United States, particularly stereotypes of the Indian and the black and their historical consequences. A wide range of historical and popular literature will be examined.

Dr. Dippie.

HIST 520 (formerly 501). (3) Seminar in British History

A research seminar in British history in the 19th century. The areas of concentration will be either Ireland or church history. The student will be required to write a research paper which will be read and criticized by members of the seminar.

Dr. Jackman.

HIST 530 (formerly 526). (3) Seminar in Canadian History

A research and reading seminar on Canada from the Laurier era to the Second World War. For 1974-75 the seminar will focus on studies in social, economic, intellectual and political history.

Mr. Forbes.

HIST 531 (formerly 503). (3) Seminar in B.C. History

For 1974-75 the seminar will focus on the colonies of Vancouver Island or British Columbia. Students will prepare a research paper, based on primary sources, which should represent a high technical standard and will be presented in class for criticism and discussion.

Dr. Hendrickson.

HIST 532 (formerly 539). (3) Seminar in Canadian Defence Policy

Dr. R. H. Roy. (May not be offered 1974-75.)

HIST 540 (formerly 505). (3) Seminar in European History

A research seminar in European history. For 1974-75 the seminar will deal with some aspects of Rightist Movements in Western Europe and on some aspects of the diplomacy of World War II, with emphasis on the West. Each student will prepare one research paper which will be read and criticized by members of the seminar.

Dr. Girard.

HIST 580. (3) Seminar in Specialized Topics

(Not offered 1974-75.)

HIST 590. (3) Directed Reading

(Offered as required.)

HIST 595. (3) Extended Research Paper

HIST 599. (12) M.A. Thesis

LIBERAL ARTS

Course Chairman, 1974-75: Anthony W. Jenkins, M.A. (*Cantab.*), Ph.D. (*Calif.*),
Associate Professor, English.

L A 305. (3) The Background of Western Literature

The aim of the course is to investigate some of the origins of Western man and his society. By means of works that are considered significant and by means of lectures on specific topics, the course will examine various lines of development in western civilization. Instructors from different departments form the course committee and lead the weekly seminars. Lecturers from other departments are invited to talk to the class. While the format of the course is flexible, the normal procedure is a one-hour lecture, followed by a two-hour seminar in which the topic of the week is discussed in depth. Seminar groups are arranged on a quarterly basis and at the end of each quarter the student changes both group and instructor, so that during the course of the year he will come into contact with instructors from different disciplines.

Liberal Arts 305 carries elective credit in any degree programme. Certain departments accept the course towards a major; students should consult their own department for advice.

Prerequisite: A 3.5 Grade Point average or permission of the Course Chairman.

(1-0-2; 1-0-2)

DEPARTMENT OF LINGUISTICS

M. H. Scargill, B.A., Ph.D. (*Leeds*), F.R.S.C., Professor and Head of the Department.

Jean-Paul Vinay, L. ès L., D.E.S. (*Paris*), M.A. (*London*), Agrégé de l'Université de France, Officier d'Académie, F.R.S.C., Professor.

Geoffrey N. O'Grady, B.A. (*Sydney*), Ph.D. (*Indiana*), Professor. (On study leave 1974-75.)

Barry F. Carlson, M.A. (*Colo.*), Ph.D. (*Hawaii*), Assistant Professor.

Thomas E. Hukari, B.A. (*Ore.*), M.A., Ph.D. (*Wash.*), Assistant Professor.

Joseph F. Kess, B.S. (*Georgetown*), M.A., Ph.D. (*Hawaii*), Assistant Professor.

Henry J. Warkentyne, B.A. (*West Ont.*), M.A., Ph.D. (*London*), Assistant Professor, and Director of the English Language Programme.

James Arthurs, B.A. (*Durham*), M.A. (*U. of Vic.*), Lecturer.

NOTE: Unless otherwise stated, the prerequisite for any course in Linguistics is some knowledge of a language other than English, or permission of the Department.

INDIVIDUAL COURSES

Students who wish to take just one or two courses in Linguistics, rather than a full programme, may be interested in the following courses. Linguistics 100 is a course of general interest at the first-year level and 230 at the second-year level. Linguistics 360 is a senior Linguistics course of general interest, although it is of special value to students in Classical and Modern Languages. Linguistics 390 is intended for students who have a particular interest in the English Language. Linguistics 220, 340, 361 and 400 should be of interest to students in Anthropology who wish to have some training in the techniques of analysing and recording languages they may meet in the field. Linguistics 100, 250, 420 and 480 should be of interest to students in Classical and Modern Languages. 481 and 482 should be of interest to students in the sciences and humanities who are interested in the application of computer techniques and principles. Linguistics 250 and 370 are of special concern to students with an interest in phonetics and speech therapy, 392 for students interested in the distinctive features of Canadian English. Linguistics 371 is valuable for students who wish to enter the area of teaching English as a second language. Linguistics 426 is valuable for students who wish to enter the area of teaching French.

GENERAL, MAJOR AND HONOURS PROGRAMMES

General—Students who wish to proceed to the B.A. degree under the regulations for the General Programme and who wish to study Linguistics as one of their fields of concentration are urged to take one of the following as their second field of concentration: Anthropology, Classical or Modern Languages, English, Mathematics, Psychology.

Students who begin the study of Linguistics as one of their fields in the General Programme in their first or second year should take Linguistics 100, and then at least three senior courses in Linguistics in their third and fourth years.

Students who begin the study of Linguistics as one of their fields in the General Programme in their third or fourth years should take Linguistics 360 or 361 and at least two other senior courses in Linguistics.

Major—Students who wish to proceed to the B.A. degree with a Major in Linguistics are urged to offer supporting courses in one of Anthropology, Classical or Modern Languages, English, Mathematics, Physics, Psychology.

Students who begin the study of Linguistics as a Major in their third or fourth years should take Linguistics 100, Linguistics 250, and then 15 units of senior courses in Linguistics in their third and fourth years.

Students who begin the study of Linguistics as a Major in their third or fourth years should take Linguistics 360 or 361 and 12 units of other senior courses in Linguistics.

Honours — Students who wish to take an Honours Programme in Linguistics begin the programme in the third year with permission of the Department. Honours students must: (a) achieve at least a B average in all Linguistics courses taken in each of the third and fourth years and maintain a second-class average in all work of the third and fourth years; (b) present a 3 unit senior Linguistics course in each of the third and fourth years additional to those required for the major, one of which must be Linguistics 499.

SAMPLE PROGRAMME FOR A MAJOR IN LINGUISTICS

With a concentration of electives in English

- Year*
- I. Linguistics 100
English 110 or 120
A language
Elective (Philosophy 202 recommended)
Elective (A Science course recommended)
 - II. Linguistics 250
English 200, 204 or 205
The language begun in the first year
Elective (If Linguistics 100 has not been taken, it must be taken here.)
 - III. Linguistics 390
Linguistics 370 or 380
Linguistics 340
English 400 or a senior English course by permission of the Department.
Elective (If no previous Linguistics courses have been taken, Linguistics 360 or 361 will be taken here.)
 - IV. Linguistics 392 or elective
Linguistics 430
Linguistics 371
English 440
A senior English course

Students in English who wish to have Linguistics as a second area of concentration should take Linguistics 100 and at least three senior Linguistics courses, including Linguistics 390 and Linguistics 392 and 371. Students in English who begin the study of Linguistics in their third year may satisfy the requirements for Linguistics as an area of concentration by taking Linguistics 360 or 361 and two other 3 unit senior Linguistics courses, Linguistics 390, and Linguistics 371 or 392.

UNDERGRADUATE COURSES

Unless indicated otherwise, courses begin in September and end in April.

LING 099. (0) English as a Second Language (3 fee units)

A non-credit course in English as a Second Language for students whose native language is not English. Successful completion of this course may be required at the discretion of individual departments.

Text: Rutherford, *Modern English*; Danielson and Hayden, *Using English*.

Mr. Arthurs and Members of the Department. (3-0; 3-0)

LING 100. (3) Introduction to Linguistics

The nature of language as a means of communication and an integral part of culture. Methods of language description. Analysis of speech sounds, words, and sentences. Language families of the world. Historical development of languages. Selected topics

in applied linguistics, psycholinguistics, sociolinguistics, and anthropological linguistics. Selection of illustrative materials will be drawn from a number of languages within each section. Students are advised to take the selection which meets their interests or which is required by the Department or Faculty in which they intend to complete a degree: Sec. A-01 and A-02, English; Sec. C, Romance languages; Sec. D, Germanic languages; Sec. E, Slavonic and Oriental languages; Sec. F, Anthropology.

Text: To be announced.

Members of the Department.

(3-0; 3-0)

LING 220. (3) Language and Culture

Language as an expression of culture and as a means of delineating cultural boundaries.

Text: Burling, *Man's Many Voices*; Gleason, *Workbook*.

Dr. Carlson.

(3-0; 3-0)

LING 230. (3) Introduction to Semantics

A presentation of various approaches used to describe and explain how language conveys meaning. The course will centre on questions such as types and levels of meaning, the notion of signs and semantic fields, methods of analysis and recording of differences in meaning, as proposed by various scholars. Recent developments such as generative semantics will be introduced, as well as systematic attempts to deal with meaning and style. A brief introduction will also be given to symbolic systems in different cultures.

Mr. Arthurs.

(3-0; 3-0)

LING 240. (3) Studies in Indian Languages of British Columbia

Many Indians in British Columbia are interested in the languages of their own people. This interest most often involves a desire to know or study a particular language. In addition, some of these same people have begun to hope that their language might be preserved into the future, and have wondered how they might help to accomplish this goal. Studies in Indian Languages of British Columbia proposes to reinforce these interests by guiding the study of individual native languages, and by helping in the preparation of language teaching materials in particular languages. The course will have a relatively small enrollment so that the particular needs and interests of each student can be met. Knowledge of an Indian language is not required, nor is it necessary that the entire class be composed of Indian students.

Dr. Carlson.

(3-0; 3-0)

LING 250. (3) Phonology

This course will deal with the theory of the production and nature of speech sounds in general, and provide practice in recognizing, transcribing, and producing a wide variety of such sounds. Attention will be given to the ways in which the sound systems of particular languages are structured.

This is a laboratory-type course, and the final grade is largely based on work completed there and on outside assignments.

Prerequisite: Linguistics 100 or permission of the Department.

Texts: Smalley, *Manual of Articulatory Phonetics and Workbook*.

Dr. O'Grady.

(3-0; 3-0)

LING 340 (formerly 460). (3) Morphology and Syntax

Techniques and theory in the analysis of words (morphology) and sentences (syntax) from structuralism to generative grammar. Topics include descriptive techniques in a structuralist model, early transformational grammar, a transformational analysis of English, and recent developments in linguistic theory, including generative semantics. This course is designed for students whose interest is techniques of language analysis, especially for those in Linguistics and in Anthropology who may wish to work with languages not previously given a grammatical analysis. Examples from languages other than English may be used.

Prerequisite: Linguistics 100 or equivalent or permission of the Department.

Texts: Burt, *From Deep to Surface Structure*, Merrifield, *Laboratory Manual for Morphology and Syntax*.

Dr. Hukari. (3-0; 3-0)

LING 360. (3) General Linguistics

An introduction to Linguistics intended for students with no previous knowledge of the subject who desire a single senior course or who wish to begin the study of Linguistics in their senior years. This course will cover, at the level expected in senior courses, the material listed in Linguistics 100. Not open to students with Linguistics 100.

Texts: Langaker, *Fundamentals of Linguistic Analysis*; Burling, *Man's Many Voices*.

Dr. O'Grady. (3-0; 3-0)

LING 361. (3) Anthropological Linguistics

Language in relation to culture, semantics, and as an ethnographic tool. Intended for students with no previous knowledge of Linguistics.

This course is not open to students who have credit in or who are taking Linguistics 220.

The final grade will be based on a fair number of assignments.

Prerequisite: An introductory course in Anthropology.

Text: To be announced.

(Not offered 1974-75.) (3-0; 3-0)

LING 370 (Psychology 370). (3) Psycholinguistics

Linguistics 370 is offered in collaboration with the Department of Psychology. A course in the psychopathology of language, covering such topics as the nature and function of language, language acquisition, and language change; the pathology of linguistic behaviour, language and cognition. (This course alternates with Linguistics 570.)

Prerequisite: Permission of both Departments.

Texts: To be announced.

Dr. Kess, Dr. Hoppe (Psychology). (3-0; 3-0)

LING 371. (3) Applied Linguistics

The application of contrastive phonemics, morphology, syntax and lexicon as the basis for the preparation of grammars, dictionaries, and workbooks in English for non-native English speakers.

Prerequisites: Linguistics 100 or permission of instructor.

Texts: Croft, *Readings on English as a Second Language*; Jakobovitz, *English Language Learning*.

Dr. Warkentyne. (3-0; 3-0)

LING 372. (3) Native Languages of the Pacific Northwest

The native languages of the Pacific Northwest are both unique and numerous. Extending from Oregon to Southern Alaska, from the Queen Charlotte Islands to the prairies of the continental interior are a number of large families and hundreds of individual languages. For longer than a century their uniqueness has attracted scholars from all over the world, and yet much is still unknown. The survey will look at each family in turn and also study the structure of a representative language within each family. On this basis, the language history and broader areal relationships of each family will be approached.

Texts: To be announced.

(Not offered 1974-75.) (3-0; 3-0)

LING 373. (3) The History of Linguistics: Linguistic Views from Plato to Chomsky

An account of man's discovery of language and languages and of his attitudes towards them. The course will cover such topics as Greek and Roman views of language; the development of historical and comparative linguistics in the Nineteenth Century; new

developments in the Twentieth Century by scholars such as Firth, deSaussure, Sapir, Bloomfield, Chomsky. The course will also deal with writing systems, especially Semitic, Greek, Roman.

Texts: Pedersen, *Discovery of Language*; Dinneen, *General Linguistics*.

Prof. Vinay.

(3-0; 3-0)

LING 380. (3) Experimental Phonetics

The study of the acoustic and detailed articulatory properties of speech sounds. Introduction to such instruments as the Sound Spectrograph and Electronic Vocal Analog. This is primarily an experimental laboratory course and the final grade is based on written reports of experiments.

Prerequisite: Ling. 100, Ling. 250 or permission of the Department.

Texts: Minifie, *Normal Aspects of Speech, Hearing, and Language*.

Dr. Warkentyne.

(2-1; 1-2)

LING 390 (English 390). (3) The Growth and Structure of Modern English

A descriptive approach to the structure of Modern English, designed especially for those students who are interested in the application of modern linguistic science, particularly structural and transformational theory, to an understanding of the language. Topics covered will include the following: social and regional dialects and their significance; theories of grammatical analysis; causes of linguistic change; the history of the English language from its beginnings to the present day, including Canadian English.

This course is divided into 3 sections. Section 1 is for those students who have had previous courses in Linguistics. Sections 2 and 3 are for those students who have had no previous courses in Linguistics.

Texts: For Section 01: Laird and Gorrel, *Reading about Language*; Liles, *Introductory Transformational Grammar*; Pyles, *Development of the English Language*; Scargill, *Modern Canadian English*. For Sections 02 and 03: Gaeng, *Principles of Language*; Baugh, *History of the English Language*; Scargill, *Modern Canadian English*.

Drs. Scargill (2 and 3), and Kess (1).

(3-0; 3-0)

LING 392. (3) Canadian English

A description of the distinctive features of modern Canadian English, especially in vocabulary, grammar and pronunciation, and an account of the economic, social, and political factors that have given rise to those features.

Prerequisite: Permission of the instructor.

Texts: To be announced.

(Not offered 1974-75.)

(3-0; 3-0)

LING 400. (3) Field Methods and Techniques in Language Analysis

Field methods and techniques in language analysis, using informants or recordings or both. The Department is particularly interested in American Indian and Eskimo languages.

Prerequisites: Linguistics 250 and 340.

The final grade is based on class participation and papers.

Text: To be announced.

Dr. Hukari.

(3-0; 3-0)

LING 420. (3) Historical and Comparative Linguistics

The historical and comparative method in the study of Indo-European languages. In the second term, the linguistic structure of Sanskrit will be introduced as a prime example of an Indo-European language. Reading of selected texts.

Prerequisite: Linguistics 100 or 360 or equivalent.

(3-0; 3-0)

LING 426 (French 426). (3) Comparative Stylistics of French and English

A contrastive study of the semantic and stylistic resources of French and English at the structural and cultural levels.

(Not offered 1974-75.)

(3-0; 3-0)

LING 430. (3) Dialectology

The study of regional and social dialects with emphasis on Canada. Principles of lexicography.

Four or five substantial assignments are the basis of the final grade.

Prerequisites: Linguistics 100 or 360 or permission of the Department.

Texts: *Readings in American Dialectology* by Allen & Underwood; Hulbert, *Dictionaries: British and American*.

(Not offered 1974-75.)

(3-0; 3-0)

LING 448. (1 1/2) Directed Reading in Linguistics

Members of the Department.

September-December only. (3-0)

LING 449. (1 1/2) Directed Reading in Linguistics

Members of the Department.

January-April only. (3-0)

LING 450 (formerly 350). (1 1/2) Seminar in Languages

An elementary analysis of a language. First term: To be selected.

Prerequisites: Permission of the instructor.

Texts: To be announced.

September-December only. (3-0)

LING 451 (formerly 350). (1 1/2) Seminar in Languages

An elementary analysis of a language. Second term: To be selected.

Prerequisites: Permission of the instructor.

January-April only. (3-0)

LING 480. (1 1/2) Contrastive Linguistics

The comparison of the phonological and syntactic structure of two or more languages to show similarities and differences.

Prerequisites: Permission of the Departments.

Texts: To be announced.

September-December only. (3-0)

LING 481. (1 1/2) Introduction to Computer Linguistics

Principles of computer analysis and synthesis of language data. The design and use of automatic dictionaries. Exercises in mechanical translation.

(Offered in alternate years.)

Prerequisite: Permission of the instructor and Mathematics 170 or equivalent.

January-April only. (3-0)

LING 482. (1 1/2) Mathematical Linguistics

Introduction to the formulation of algebraic models of language. The relationship of algebraic models to automata theory.

Prerequisite: Permission of the instructor and Mathematics 151 or equivalent.

January-April only. (3-0)

LING 499. (3) Honours Essay

An essay required of honours students in the fourth year.

GRADUATE COURSES

Students should consult the Department concerning courses offered in any particular year.

LING 501. (1 ½-3) Seminar in Canadian English

LING 502. (1 ½) Seminar in Linguistic Theories

An introduction to the principles and methodological techniques of linguistic theories of language analysis other than the generative-transformational approach. (3-0; 3-0)

LING 503. (1 ½) Seminar in Grammatical Theory

Recent developments in semantic/syntactic theory. (3-0; 3-0)

LING 504. (3) Seminar in Machine Translation

(3-0; 3-0)

LING 505. (1 ½) Seminar in Phonological Theory

Recent developments in phonological analysis; particular emphasis will be placed on phonological universals. (3-0-0)

LING 506. (1 ½) Seminar in Lexicography

An introduction to the theory of lexicography and to the practice of dictionary-making, monolingual, bilingual, and automatic. (3-0-0)

LING 513. (1 ½) Problems in Grammatical Analysis

Special studies selected on an individual basis to allow a student to pursue a particular topic in grammatical analysis. (3-0-0)

LING 515. (1 ½) Problems in Phonological Analysis

Special studies selected on an individual basis to allow a student to pursue a particular topic in phonological analysis. (3-0-0)

LING 517. (1 ½-3) Experimental Phonetics Laboratory

Special topics in the synthesis and analysis of speech. Sound spectograph, electronic vocal analogue, and other sound equipment will be used for experiment. (0-2-1)

LING 520. (1 ½) North American Indian Languages

A survey of the language families of North America and a detailed grammatical examination of several languages chosen from different families. (3-0-0)

LING 521. (1 ½) Austronesian Linguistics

A survey of the languages of the Austronesian language family, taking into account their genetic and typological relationships. Detailed attention will be given to a description of at least one member language of the family. (3-0-0)

LING 522. (1 ½) Far Eastern Linguistics

A survey of the Japanese, Chinese, and Korean languages. One of these languages will receive a detailed description. (3-0-0)

LING 523. (1 ½) Australian Linguistics

An outline of the history of research on the Australian aboriginal languages, with emphasis on comparative Pama-Nyungan. (3-0-0)

LING 524. (1 ½) Romance Linguistics

Recent developments in comparative Romance linguistics; particular emphasis will be placed on contrastive features. (3-0-0)

LING 570. (1 ½) Psycholinguistics

This course is offered in collaboration with the Department of Psychology. It covers such varied topics in the psychology of language as language acquisition, bilingualism, language and thought, the problem of meaning, and the pathology of linguistic behaviour. Alternates with Ling. 370.

Prerequisites: Permission of both departments. (3-0-0)

LING 580. (1 ½-3) Linguistics Seminar

The contents of this course will vary.

May be repeated for credit. (3-0-0)

LING 599. (Credit to be determined) Thesis

LING 699. (Credit to be determined) Ph.D. Dissertation

DEPARTMENT OF MATHEMATICS

- William R. Gordon, B.A., M.A. (*Brit. Col.*), Ph.D. (*Calif., Santa Barbara*), Associate Professor and Head of the Department.
- Stephen A. Jennings, B.A., M.A., Ph.D. (*Tor.*), Professor.
- Robert E. Odeh, M.S., Ph.D. (*Carnegie Inst. of Tech.*), Professor.
- Marvin Shinbrot, B.A., M.A. (*Syracuse*), Ph.D. (*Stanford*), Professor.
- Ian Barrodale, B.Sc. (*Wales*), M.A. (*Brit. Col.*), Ph.D. (*Liverpool*), Associate Professor.
- Leon Bowden, B.Sc. (*London*), B.Litt. (*Oxon.*), Ph.D. (*London*), Associate Professor.
- Stanley R. Clark, B.A.Sc. (*Brit. Col.*), M.Sc. (*Aberdeen*), Ph.D. (*Manchester*), Associate Professor.
- Ernest J. Cockayne, M.A. (*Oxon.*), M.Sc. (*McGill*), Ph.D. (*Brit. Col.*), Associate Professor.
- Roger R. Davidson, B.Sc. (*Queen's*), Ph.D. (*Florida State*), Associate Professor.
- Fernand E. Deloume, B.A. (*Brit. Col.*), M.A. (*Tor.*), Ph.D. (*U.S.C.*), Associate Professor.
- W. Keith Hastings, B.A., M.A., Ph.D. (*Tor.*), Associate Professor.
- Lowell A. Hinrichs, M.A., Ph.D. (*Ore.*), Associate Professor.
- Albert E. Hurd, B.A., M.A. (*Tor.*), Ph.D. (*Stanford*), Associate Professor.
- D. Elizabeth Kennedy, B.A., M.A. (*Brit. Col.*), Associate Professor.
- Walter P. Kotorynski, B.A. (*West. Ont.*), M.A., Ph.D. (*Tor.*), Associate Professor.
- Robert A. MacLeod, B.Sc. (*Alta.*), M.S. (*Cal. Tech.*), Ph.D. (*Alta.*), Associate Professor.
- Gary G. Miller, M.Sc., Ph.D. (*Missouri*), Associate Professor.
- O. Phoebe Noble, B.A. (*Brit. Col.*), Associate Professor.
- James Riddell, M.Sc., Ph.D. (*Alta.*), Associate Professor.
- Frank D. K. Roberts, M.A. (*Cantab.*), M.Sc., Ph.D. (*Liverpool*), Associate Professor. (On study leave 1974-75.)
- Earl D. Rogak, B.Ch.E. (*Cooper Union*), M.S.E., Ph.D. (*Mich.*), Associate Professor. (On study leave 1974-75.)
- Hari M. Srivastava, B.Sc., M.Sc. (*Allahabad*), Ph.D. (*Jodhpur*), F.R.A.S. (*London*), F.N.A.Sc. (*India*), Associate Professor.
- Pauline van den Driessche, B.Sc., M.Sc. (*Imp. Coll.*), D.I.C., Ph.D. (*Wales*), Associate Professor.
- Arne P. Baartz, M.A., Ph.D. (*Ore.*), Assistant Professor.
- Byron L. Ehle, A.B. (*Whitman*), M.S. (*Stanford*), Ph.D. (*Waterloo*), Assistant Professor.
- Denton E. Hewgill, B.Sc., Ph.D. (*Brit. Col.*), Assistant Professor.
- Bruce R. Johnson, B.S., M.A. (*Ore. St.*), Ph.D. (*Ore.*), Assistant Professor.
- David J. Leeming, B.Sc. (*Brit. Col.-Vic. Coll.*), M.A. (*Ore.*), Ph.D. (*Alta.*), Assistant Professor. (On study leave 1974-75.)
- Charles R. Miers, B.A. (*Knox Coll.*), M.A., Ph.D. (*Calif., Los Angeles*), Assistant Professor.
- Donald J. Miller, B.Sc., Ph.D. (*McMaster*), Assistant Professor.
- Charles E. Murley, B.A. (*Colorado*), M.S., Ph.D. (*Wash.*), Assistant Professor.
- D. Dale Olesky, B.Sc., M.Sc. (*Alta.*), Ph.D. (*Tor.*), Assistant Professor.
- William E. Pfaffenberger, M.A., Ph.D. (*Ore.*), Assistant Professor.
- H. Paul Smith, B.A., M.Ed. (*Brit. Col.*), M.A. (*Wash.*), Assistant Professor. (On study leave 1974-75.)

GENERAL, MAJOR AND HONOURS PROGRAMMES

For either a B.A. or B.Sc. degree in Mathematics, students may take a General, Major or Honours Mathematics programme. The Mathematics course requirements for each programme are as follows:

General

- (a) Mathematics 130 (or 100 and 101)
- (b) Mathematics 232 (or 110 and 210)
- (c) Mathematics 230 (or 200 and 201)
- (d) 9 additional units of Mathematics courses numbered 300 or higher.

Major

- (a) Mathematics 130 (or 100 and 101)
- (b) Mathematics 232 (or 110 and 210)
- (c) Mathematics 230 (or 200 and 201)
- (d) Mathematics 330 and 332
- (e) 9 additional units of Mathematics courses numbered 300 or higher (of which at least 3 units are numbered 400 or higher) chosen in consultation with the Department.

Major with Computing Science Emphasis

- (a) Mathematics 130 (or 100 and 101)
- (b) Mathematics 232 (or 110 and 210)
- (c) Computing Science 170 and 171
- (d) Mathematics 230 (or 200 and 201)
- (e) Computing Science 272 and 273 (or Mathematics 271 and Computing Science 272)
- (f) Mathematics 330 and 332
- (g) Computing Science 349
- (h) 6 units chosen from Computing Science 370, 371, 373, 471, 472, 473, 474, 448, 449, of which at least 3 units are numbered 400 or higher.

Major with Probability and Statistics Emphasis

- (a) Mathematics 130 (or 100 and 101)
- (b) Mathematics 232 (or 110 and 210)
- (c) Computing Science 170 and 171
- (d) Mathematics 230 (or 200 and 201)
- (e) Statistics 253
- (f) Mathematics 330 and 332
- (g) 9 additional units of probability and statistics numbered 300 or higher, 3 of which must be at the 400 level.

Honours

Students will be permitted to enrol in the Honours programme only if they have the consent of the Department. In general, this will require a second class average or higher in at least 15 units of courses in their second year and a grade of B or higher in each of their first and second year Mathematics courses.

- (a) Mathematics 130 (or 100 and 101)
- (b) Mathematics 232 (or 110 and 210)
- (c) Mathematics 230 (or 200 and 201)
- (d) Mathematics 325, 333, 334, 336, 338
- (e) Completion of one of the following emphases:
 - (i) Pure Mathematics
 - (a) 15 units from 309, 315, 326, 339, 367, 433, 435, 438, 439, 465 of which at least 9 units are numbered 400 or higher.
 - (ii) Applied Mathematics
 - (a) Mathematics 326, 445

- (b) 10½ additional units of Mathematics chosen in consultation with the Department.
- (iii) Probability and Statistics
- (a) Statistics 253, Computing Science 170, 171
- (b) 9 additional units from Mathematics 350, Statistics 353, 354, 450, 451, 453, 454
- (c) 6 additional units of Mathematics chosen in consultation with the Department.
- (iv) Computing Science
- (a) Computing Science 170, 171, 272, 273, (or Mathematics 271, Computing Science 272), 349, 449
- (b) 6 additional units from Computing Science 370, 371, 373, 471, 472, 473, 474, 448 of which at least 3 units are numbered 400 or higher
- (c) 3 additional units of Mathematics chosen in consultation with the Department.
- (v) Department approved option
- (a) Fifteen units of Mathematics numbered 300 or higher chosen in consultation with the Department. As least 9 of the 15 units must be chosen from courses numbered 400 or higher.

By taking Mathematics 130, 230, 232, 253, Computing Science 170, 171, 272, 273 in the first two years a student would maintain most options until the third year.

Honours in Physics and Applied Mathematics Programme

This programme will normally comprise a minimum of 66 units of work:

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|-----------------------|--|
| I. Physics 101 | Elementary Physics |
| or 121 | Mechanics |
| Mathematics 130 | Calculus I and II |
| (Mathematics 232) | Introductory Linear Algebra |
| Chemistry 120 | General Chemistry |
| or 124 | Introductory Physical and Inorganic Chemistry — Part I |
| II. Physics 211 | Mechanics |
| or 213 | Optics, Wave Motion, Heat and Elementary Thermodynamics |
| Physics 212 | Electricity and Magnetism, Electronics, and Modern Physics |
| Mathematics 230 | Calculus III and IV |
| (Mathematics 333) | Algebra I |
| III. Physics 321 | Classical Mechanics |
| Physics 322 | Electricity and Magnetism |
| Physics 413 | Introductory Modern Physics |
| Mathematics 325* | Differential equations — ordinary |
| Mathematics 326* | Partial differential equations |
| Mathematics 334* | Foundations of Analysis |
| Mathematics 336* | Real Analysis I |
| Mathematics — * | (elective) |
| Mathematics 338* | Complex Analysis I |
| IV. (Physics 313) | Optics, Wave Motion, Heat and Thermodynamics |
| Physics 422* | Electromagnetic theory |
| Physics 421* | Statistical Mechanics |
| Physics 423* | Introductory Quantum Mechanics |
| Physics 420* | Topics in Mathematical Physics II |
| Physics 460 | Seminar (non-credit) |
| Physics electives | |
| Mathematics 445 | Modern Methods in differential equations |
| Mathematics electives | |

*1½ units

Mathematics 232 may be deferred to the second year, Mathematics 333 must then be deferred to the third or fourth year. Physics 313 or its equivalent must be taken in the fourth year if credit has not been obtained for Physics 213 in the second year. The Physics electives are to be chosen in consultation with the Physics Department and the Mathematics electives are to be chosen in consultation with the Mathematics Department.

NOTES

- (1) All students taking a Major or Honours in Mathematics are strongly advised to take at least one University course in Physics.
- (2) Any student who demonstrates to the Department that he has mastered the material of a course may be granted advanced placement.
- (3) Students from outside British Columbia, transfer students from Community Colleges and students who have obtained credit for Grade 13 Mathematics must consult the Department before enrolling in any Mathematics course.

UNDERGRADUATE COURSES

MATHEMATICS

Unless indicated otherwise, courses begin in September and end in April.

MATH 012. (no credit) Pre-Calculus Mathematics (1½ fee units)

The essentials of Mathematics 12 which are prerequisite to Mathematics 100, 102, 110. Topics covered include: set language, algebra of polynomials, relations, functions and their graphs, conics, trigonometry, plane analytic geometry.

September-December only. (3-0)

MATH 100. (1½) Calculus I

The derivative; the study of elementary functions, including polynomials, exponential, logarithmic and trigonometric functions; the mean value theorem; applications of differentiation.

Prerequisite: Mathematics 12 or its equivalent.

Not open to students who have credit in Mathematics 102 or 180.

September-December. Also January-April. (3-0)

MATH 101. (1½) Calculus II

The definite integral; techniques of integration; applications of integration; infinite series; Taylor's formula.

Prerequisite: Mathematics 100 or its equivalent.

September-December. Also January-April. (3-0)

MATH 102 (formerly one-half of 140). (1½) Calculus for Students in the Social and Biological Sciences

Calculus of one variable with applications to the social and biological sciences. Exponential growth.

Prerequisite: Mathematics 12 or its equivalent.

Not open to students who have credit in Mathematics 100 or 180.

January-April only. (3-0)

MATH 110. (1½) Algebra and Geometry

Solid geometry; complex numbers; solving systems of linear equations; matrices; real vector spaces.

Prerequisite: Mathematics 12 or its equivalent.

September-December. Also January-April. (3-0)

MATH 130. (3) Calculus I and II

Same as Mathematics 100 (first term) and Mathematics 101 (second term).

Prerequisite: Mathematics 12 or its equivalent. (3-0; 3-0)

MATH 151 (formerly one-half of 140). (1 1/2) Finite Mathematics

Elementary combinatorics; introduction to probability, matrix algebra, systems of linear equations.

Prerequisite: Mathematics 12 or its equivalent or Mathematics 012 (which may be taken concurrently).

NOTE 1: Students who have credit for any of Statistics 253, 343, Mathematics 350 or Statistics 443 may not register in Mathematics 151 for credit.

NOTE 2: The sequences Mathematics 151 and 102 is intended primarily for students in the social and biological sciences; an alternate selection is Mathematics 130 and 151. September-December. Also January-April. (3-0)

MATH 160. (3) Fundamental Aspects of Mathematics for the Elementary Teacher

For credit only in the Faculty of Education. A student who has obtained credit for any university mathematics course will normally not be permitted to register for credit in Mathematics 160.

Prerequisite: Mathematics 11 or consent of Department. (3-0; 3-0)

MATH 180 (formerly 150). (3) General Mathematics

An intuitive introduction to calculus, elementary matrix algebra and probability.

Prerequisite: Mathematics 11 or Mathematics 91 or equivalent.

Not open to students who have completed Mathematics 12 or 100 or 102. (3-0; 3-0)

MATH 200. (1 1/2) Calculus III

Differentiation of vectors, functions of several variables, chain rule and gradient, potential functions and curve integrals, higher order partial derivatives and applications, introduction to differential equations.

Prerequisite: A grade of C or higher in Mathematics 130 (or 101) and Mathematics 110 (which may be taken concurrently).

September-December. Also January-April. (3-0)

MATH 201. (1 1/2) Calculus IV

Functions of several variables, multiple integrals, Green's theorem, Fourier series. Introduction to analysis including proofs of some theorems assumed in earlier work.

Prerequisite: Mathematics 110, 200 and Mathematics 210 which may be taken concurrently. January-April only. (3-0)

MATH 210. (1 1/2) Linear Algebra I

Linear transformations; determinants; eigenvalues, eigenvectors and inner product spaces.

Prerequisite: Mathematics 110.

NOTE: This course is open to first year students who have taken Mathematics 110 in the first term. September-December. Also January-April. (3-0)

MATH 230. (3) Calculus III and IV

Same as Mathematics 200 (first term) and Mathematics 201 (second term).

Prerequisite: A grade of C or higher in Mathematics 130 (or 101).

Corequisite: Mathematics 232. (3-0; 3-0)

MATH 231. (3) Second Year Calculus

Calculus of functions of several variables including gradient, directional derivative and divergence. Maxima and minima including problems with one constraint. Simple

theory of envelopes. Multiple integrals using rectangular, cylindrical and spherical geometry. Application of multiple integrals to problems in the physical sciences. Introduction to differential equations of first order and differential equations of first and second order with constant coefficients with applications to problems in physics. Fourier series and basic theory of functions of a complex variable.

NOTE: This course may not in general be included as part of the Mathematics department's requirement for the Major or Honours programme.

Prerequisite: Mathematics 130 (or 101). (3-0; 3-0)

MATH 232. (3) Introductory Linear Algebra

Same as Mathematics 110 (first term) and Mathematics 210 (second term).

(3-0; 3-0)

MATH 240. (3) Mathematics for Students in the Social and Biological Sciences

Techniques of integration; multivariable calculus; optimization; difference and differential equations with applications; linear programming; further topics in probability and linear algebra.

Prerequisite: Mathematics 151 and Mathematics 102 or Mathematics 151 and Mathematics 100.

NOTE: Students who have obtained credit for Mathematics 130 (or 100 and 101) may enrol for Mathematics 240 provided they enrol for Mathematics 151 concurrently.

(3-0; 3-0)

Students with a D grade in Second Year Mathematics courses are advised not to register for further courses in Mathematics.

MATH 303. (3) Applied Analysis

Topics from advanced calculus with applications to the physical sciences.

Prerequisites: Mathematics 231 or Mathematics 230 and 232.

NOTE: This course may not in general be included as part of the Mathematics Department's requirements for the Major or Honours degrees.

(3-0; 3-0)

MATH 309. (1½) Introduction to Manifolds

Functions on E_n , differentiation, integration, integration on chains, integration on manifolds, selected topics. Not open to students who have credit for Mathematics 331.

Prerequisites: Mathematics 230 and 232. September-December only. (3-0)

NOTE: This course may not be offered in 1975-76.

MATH 315 (formerly 211). (1½) Linear Algebra II

Further topics in linear algebra including canonical forms and inner product spaces. Primarily for Honours students.

Prerequisites: B or higher in each of Mathematics 230 and 232 (or 201 and 210) and the consent of the Department. September-December only. (3-0)

MATH 323. (3) Differential Equations and their Applications to the Physical Sciences

Special methods for first order differential equations, linear differential equations of first and higher orders with constant coefficients. Selected second order differential equations with variable coefficients with special attention to Bessel's and Legendre's equations. Systems of linear differential equations, Laplace transforms, numerical methods, boundary value problems including orthogonal functions and Fourier series. Partial differential equations and their applications to problems in physics.

Primarily for students in the Physical Sciences.

Prerequisites: Mathematics 231 or Mathematics 230 and 232.

NOTE: This course may not in general be included as part of the Mathematics Department's requirements for the Major or Honours degrees.

(3-0; 3-0)

MATH 325. (1½) Ordinary Differential Equations

Theory of ordinary differential equations. Existence, uniqueness theorems. Cauchy-Peano and Picard theorems. Theory of linear systems and related boundary problems. Primarily for Honours students.

Prerequisites: B or higher in each of Mathematics 230 and 232 (or 201 and 210) and the consent of the Department. September-December only. (3-0)

MATH 326. (1½) Partial Differential Equations

Derivation of the fundamental equations of mathematical physics; classification of second order equations; equations of hyperbolic, parabolic, and elliptic types; potential theory.

Primarily for Honours students.

Prerequisite: Mathematics 325. January-April only. (3-0)

MATH 330. (3) Advanced Calculus

Convergence and uniform convergence in R^n with applications to series and Fourier series. Basic geometry of curves. Green's, Stokes', and the divergence theorems for vector fields. Introduction to complex analysis, including integration and residue theory.

Prerequisites: Mathematics 230 and 232 (or 201 and 210) or high standing in Mathematics 231. (3-0; 3-0)

MATH 332. (3) Survey of Modern Algebra

Axiomatic approach to number systems. General algebraic structures. Introduction to the theory of groups, rings, fields and integral domains.

Prerequisite: Mathematics 232 (or 210). (3-0; 3-0)

MATH 333. (3) Algebra I

Algebraic structures.

Primarily for Honours students.

Prerequisites: Mathematics 230 (which may be taken concurrently) and Mathematics 232 and the consent of the Department. (3-0; 3-0)

MATH 334. (1½) Foundations of Analysis

Sets and functions, the real number system, set equivalence, sequences and series, introduction to point set and metric topology, limits and continuity in metric spaces.

Primarily for honours students. Not open to students who have credit for Mathematics 335 or 430.

Prerequisite: Mathematics 230 and 232 and the consent of the Department. September-December only. (3-0)

MATH 336. (1½) Real Analysis I

Lebesgue measure and integration, differentiation, Fourier series, Riemann-Stieltjes integration.

Primarily for Honours students. Not open to students who have credit for Mathematics 335.

Prerequisite: Mathematics 334. January-April only. (3-0)

MATH 338. (1½) Complex Analysis I

Elementary functions of a complex variable, analytic functions, differentiation and integration of functions of a complex variable, power series and residue theory.

Primarily for honours students. Not open to students who have credit for 441.

Prerequisite: Mathematics 334. January-April only. (3-0)

MATH 339. (3) Number Theory

Congruences, numerical functions, elementary theory of primes, quadratic residues. Further topics to be selected from partitions, compositions, distribution of primes, geometry of numbers, rational approximations.

Prerequisites: Mathematics 332 or B— or higher in Mathematics 232 (or 210).

(3-0; 3-0)

MATH 345. (3) Differential Equations

First order differential equations; second and higher order linear differential equations including the use of the Laplace transform; systems of linear differential equations, the method of successive approximations; series solutions including Legendre polynomials and Bessel functions; Fourier series; partial differential equations.

Prerequisites: Mathematics 230 (or 201) and Mathematics 232 (or 210) and Mathematics 330, which may be taken concurrently.

(3-0; 3-0)

MATH 350 (formerly 340). (3) Probability Theory

Basic properties of probability as a function defined on sets; combinatorial analysis; random variables and expectation; conditional probability and independence; special discrete and continuous distributions; sums of random variables; generating functions; limit theorems. Stochastic processes: random walks, recurrent events, Markov chains, Poisson processes, birth and death processes. This is a basic course for anyone interested in mathematical or applied statistics, computer simulation or actuarial science. Not open to students who have credit for Mathematics 340.

Prerequisite: Mathematics 230 or 231 or 240.

(3-0; 3-0)

MATH 362. (1 1/2) Elementary Number Theory

A brief introduction to divisibility, primes, congruences, arithmetic functions, primitive roots, quadratic residues, partitions and geometry of numbers.

For Mathematics majors in Arts and Science or Mathematics majors in Secondary Education. Not open to students who have credit for Mathematics 339.

Prerequisite: Any 200-level calculus or algebra course.

September-December only. (3-0)

MATH 366. (1 1/2) Geometry

Topics from polyhedral, Euclidean, projective and non-Euclidean geometries. Students should consult the Department regarding topics to be offered in any year. Students proposing to teach mathematics in secondary school are urged to take this course. Not open to students who have credit for 337.

Prerequisite: Any second year Mathematics course or permission of the Instructor.

January-April only. (3-0)

MATH 367. (1 1/2) Introduction to Differential Geometry

Theory of curves, surfaces, first fundamental form, tensor calculus, Gaussian and mean curvature, geodesic curvature, mappings.

Prerequisites: Mathematics 230 and 232.

NOTE: This course may not be offered 1975-76.

January-April only. (3-0)

MATH 410. (1 1/2) Algebra for Scientists I

Topics in algebra for students in the Physical Sciences.

NOTE: This course is intended primarily for fourth year and graduate students in Physics and Chemistry. It may be taken for credit for a Major degree in Mathematics and may not be taken for credit for an Honours degree in Mathematics.

Prerequisites: Mathematics 232 and one of Mathematics 230 or Mathematics 231.

September-December only. (3-0)

Note: Admission to the following courses is by permission of the Instructor or of the Department.

MATH 430. (1½) Topics in Real Analysis

A selection from the following topics: Cauchy or Dedekind construction of the real numbers; cardinality of integers, rationals and reals (types of infinities), open and closed sets; Heine-Borel and Bolzano-Weierstrass theorems; basic theorems from calculus. (Not open to students who have credit for Mathematics 335 or Mathematics 334.)

Primarily for students in Secondary Education or those taking a Major in Mathematics.
Prerequisites: Mathematics 330 or 332 or Honours equivalent or consent of the Department. September-December only. (3-0)

MATH 431. (1½) Topics in Complex Analysis

A continuation of the complex analysis begun in Mathematics 330. (Not open to students with credit for Mathematics 338 or 441).

Primarily for students taking a Major in mathematics.

Prerequisite: Mathematics 330 or Honours equivalent. January-April only. (3-0)

MATH 433. (3) Algebra II

Further topics in Algebra. Primarily for Honours students.

Prerequisite: Mathematics 333. (3-0;3-0)

MATH 435. (3) Real Analysis II

Category and convergence; Lebesgue measure and integration; introduction to normed linear spaces. Primarily for Honours students.

Prerequisites: Mathematics 334 and 336 or the consent of the Department. (3-0;3-0)

MATH 438. (1½) Complex Analysis II

A continuation of Mathematics 338, with topics to include a conformal mapping, analytic continuation, Riemann surfaces.

Primarily for Honours students. Not open to students who have credit for Mathematics 441.

Prerequisites: Mathematics 338 or consent of the Department.

September-December only. (3-0)

MATH 439. (1½) Topics in Complex Analysis

The topics to be covered will depend upon the interests of the students and the instructor. Topics could include elliptic functions, entire and meromorphic functions, normal families, majorization, analytic number theory, complex differential equations, special functions.

Primarily for Honours students.

Prerequisite: Mathematics 438 or 441 or the consent of the Department.

January-April only. (3-0)

MATH 445. (3) Modern Methods in Differential Equations

Introduction to the theory of partial differential equations and applications to physical and chemical phenomena. Topics will be selected from: introduction to Hilbert space theory and its application to spectral problems for differential equations, direct methods in the calculus of variations and applications to approximate solution of boundary value problems, theory of distributions, optimal control.

Prerequisite: Mathematics 325 or 345 or the consent of the Department. (3-0;3-0)

MATH 465 (formerly 411). (3) Introduction to Topology

Basic concepts of point set topology; a choice of topics from elementary algebraic topology and general topology.

Prerequisite: Mathematics 334 (which may be taken concurrently) or Mathematics 330 or the consent of the Department. (3-0;3-0)

MATH 490 (formerly 470). (3) Directed Studies in Mathematics

Students must consult the Department before registering. This course may be taken more than once in different fields with permission of the Head of the Department.

COMPUTING SCIENCE

C SC 170 (formerly MATH 170). (1½) Introduction to Computing

This basic course is intended to teach the student FORTRAN programming, and it also provides a brief introduction to Computing Science. It should be of interest to students from all disciplines. In the laboratory the student will write programmes for the IBM 370/145.

Prerequisite: Mathematics 12 or its equivalent.

Students intending to take a Major or Honours in Mathematics with a computing science option should take C SC 170 in the first term.

September-December. Also January-April. (2-2)

C SC 171 (formerly MATH 171). (1½) Computer Applications

This course provides an introduction to practical applications of computers in science, engineering, and business. A student should gain considerable insight into what computers can do in these areas, and, in addition, he will develop programming skills in the laboratory.

Prerequisite: C SC 170.

January-April only. (2-2)

C SC 272 (formerly MATH 272). (1½) Computers and Programming

This course is designed to introduce the student to basic computer organization, machine language programming, and the use of assembly language programming systems. The concepts being taught are illustrated by using the IBM 370/145 computer as the example machine, however other systems are also discussed. Students are taught to program in assembler language using the IBM/370 assembler language.

Prerequisite: C SC 271 or 171.

September-December only. (3-0)

C SC 273 (formerly MATH 370). (1½) Programming Languages

This course involves a survey of the significant features of existing programming languages, with particular emphasis on the underlying concepts abstracted from these languages. The relationship between source programmes and their run-time representation during evaluation is considered, but the actual writing of compilers is taught in C SC 471. The concepts discussed are illustrated by programming assignments. Credit cannot be obtained for both C SC 273 and 370.

Prerequisite: C SC 272.

January-April only. (3-1)

C SC 349 (formerly MATH 349). (3) Numerical Analysis I

This two-semester course provides an introduction to most of the topics in numerical analysis. The areas covered are error analysis, roots of equations, linear systems of equations, linear programming, matrix algebra, eigenvalue problems, interpolation and extrapolation, numerical integration and differentiation, Monte Carlo methods, numerical solution of ordinary and partial differential equations, approximations to functions and data, function minimization. Brief references are also made to difference equations, boundary value problems, integral equations, nonlinear systems of equations, and nonlinear programming. The laboratory period is used to discuss problems arising from the weekly assignments.

Prerequisites: C SC 171 and Mathematics 230 (or 201).

(3-1; 3-1)

C SC 370 (formerly MATH 370). (1½) Programming Languages

This course involves a survey of the significant features of existing programming languages, with particular emphasis on the underlying concepts abstracted from these languages. The relationship between source programmes and their run-time representation during evaluation is considered, but the actual writing of compilers is taught in C SC 471. The concepts discussed are illustrated by programming assignments.

Credit cannot be obtained for both C SC 273 and 370. C SC 370 will not be offered after the 1974-75 session.

Prerequisite: C SC 272. September-December only. (3-0)

C SC 371 (formerly MATH 371). (1½) Systems Programming

This course considers in some detail the various problems which must be solved if a computer is to function efficiently and still provide the services required by its various users. The specific hardware features and software programmes which are needed under various operational conditions (batch processing, multiprogramming, time sharing, etc.) are considered. Several projects involving the programming and testing of software components are included in the course.

Prerequisite: C SC 273 (or 370). January-April only. (3-0)

C SC 373 (formerly MATH 373). (1½) Introduction to Systems Analysis

This one-semester course introduces the student to many of the techniques used in analysing a business data processing system. Topics discussed will include the following: man-machine systems, objectives of data processing systems, data gathering and analysis, documentation, system controls, file processing methods, system implementation, PERT and critical path, hardware selection and system evaluation.

Prerequisite: C SC 273 (or 370) or permission of the Instructor. September-December only. (3-0)

C SC 448 (formerly MATH 448: 481). (3) Introductions to Operations Research

This two-semester course introduces the student to many of the techniques used in operations research. Both the mathematical theory and the practical application of these methods are discussed. Topics covered are: linear programming, the simplex method, applications of linear programming, duality theory, the revised simplex method, transportation and personnel-assignment algorithm, game theory, network analysis, PERT and critical path, dynamic programming, queueing theory, sampling, simulation and Monte Carlo, inventory theory, nonlinear programming.

Prerequisite: C SC 349. (3-0; 3-0)

C SC 449 (formerly MATH 449). (3) Numerical Analysis II

This course, which is primarily for Honours students, consists of a thorough discussion of two topics (one topic per semester) selected from: numerical linear algebra, approximation theory, optimization techniques, and the numerical solution of differential equations.

Prerequisites: C SC 349 and Mathematics 336 (which may be taken concurrently). (3-0; 3-0)

C SC 471 (formerly MATH 471). (1½) Compiler Construction

This course emphasizes the techniques involved in the analysis of source language and the generation of object code. Although some theoretical topics are discussed, the course has the practical objective of teaching students how compilers may be constructed. Programming assignments illustrate different methods of syntax analysis in addition to the translation of a simple source language into a hypothetical machine language.

Prerequisite: C SC 273 (or 370). September-December only. (3-0)

C SC 472 (formerly MATH 472). (1½) Theoretical Aspects of Computing Science

Grammars of formal languages and their relation to automata; Turing machines, computability, the halting problem; the use of formal grammars as models of programming languages.

NOTE: The programming of algorithms for syntax analysis is done in C SC 471.

Prerequisites: Mathematics 332 and C SC 273 (or 370). January-April only. (3-0)

C SC 473 (formerly MATH 473: 470). (1½) Topics in Computing Science I

The topics covered in this one-semester course depend primarily on the interests of the Instructor. For example, the course may comprise one or more of the following topics: graph theory, combinatorics, artificial intelligence, switching theory, automata theory, information retrieval, and numerical analysis.

Prerequisites: Consent of the Instructor. Credit cannot be obtained for both C SC 473 and Mathematics 470. September-December only. (3-0)

C SC 474 (formerly MATH 474: 470). (1 ½) Topics in Computing Science II

The topics covered in this one-semester course depend primarily on the interests of the Instructor. For example, the course may comprise one or more of the following topics: graph theory, combinatorics, artificial intelligence, switching theory, automata theory, information retrieval, and numerical analysis.

Prerequisite: Consent of the instructor. Credit cannot be obtained for both C SC 474 and Mathematics 470. January-April only. (3-0)

STATISTICS

STAT 253 (formerly MATH 253: 343). (3) Introduction to Probability and Statistics

This course introduces basic theory of probability and statistics illustrated with diverse realistic applications. Topics include elementary methods of data analysis, elementary probability theory, probability distributions, expectation, sampling distributions, basic principles of statistical inference, least squares, and an introduction to analysis of variance and regression. A knowledge of computer programming is desirable but not necessary. Credit cannot be obtained for both STAT 253 and Mathematics 343.

Prerequisite: Mathematics 130 or Mathematics 151 and 102. (3-0; 3-0)

STAT 353 (formerly MATH 353). (1 ½) Applied Regression Analysis

An outline of linear regression theory with applications.

Prerequisites: STAT 253 or Mathematics 343 or permission of the Instructor. September-December only. (3-0)

STAT 354 (formerly MATH 354). (1 ½) Sampling Techniques

Principal steps in planning and conducting a sample survey. Sampling techniques including stratification, systematic sampling and multi-stage sampling. Practical survey designs with illustrations. Non-sampling errors.

Prerequisites: STAT 253 or Mathematics 343 or permission of the Instructor. January-April only. (3-0)

STAT 450. (1 ½) Theory of Statistical Inference

A study of problems in statistical inference with emphasis on the general decision problem, sufficient statistics, point and interval estimation, hypotheses testing, and normal distribution theory. The development and application of parametric and distribution-free procedures.

Prerequisites: Mathematics 350 (formerly 340) and one of STAT 253, Mathematics 330, or Mathematics 334, 336. September-December only. (3-0)

STAT 451. (1 ½) Topics in Mathematical Statistics

Possible topics include: Nonparametric theory, theory of linear models, and stochastic modelling.

Prerequisite: STAT 450. January-April only. (3-0)

STAT 453. (1 ½) The Design and Analysis of Experiments

An introduction to the principles of experimental design and the techniques of analysis of variance. A discussion of experimental error, randomization, replication, and local control. Analysis of variance is developed for single-factor and multi-factor experiments. The use of concomitant observations. Multiple comparisons and orthogonal contrasts.

Prerequisites: STAT 253, 353 or some experience (familiarity) with experimentation. September-December only. (3-0)

STAT 454. (1 ½) Topics in Applied Statistics

Possible topics include: Multivariate analysis, multi-dimensional scaling methods, clustering methods, and time series analysis.

Prerequisites: STAT 353 and the consent of the Instructor. January-April only. (3-0)

GRADUATE COURSES**MATHEMATICS**

Depending on the interests of students and faculty, certain of the following courses are offered each year. Students should consult the Department of Mathematics for more information.

MATH 510. (2-4) Abstract Algebra

MATH 511. (2-4) Topics in Matrix Theory and Linear Algebra

MATH 520. (2-4) Number Theory

MATH 530. (2-4) Analysis

MATH 531. (2-4) Functional Analysis

MATH 540. (2-4) Topology

MATH 550. (2-4) Topics in Applied Mathematics

MATH 551. (2-4) Differential and Integral Equations

MATH 555. (2-4) Topics in Probability and Statistics

MATH 561. (2-4) Decision Theory and Statistical Inference

MATH 562. (2-4) Distribution-free and Rank-order Statistics

MATH 580. (no credit) Applications of Computers in Research (1½ fee units)

This course provides the introduction to computing that is necessary for some thesis projects. It is not open to students registered in a graduate programme in the Department of Mathematics.

MATH 581. (2-4) Directed Studies

Directed studies may be available in the areas of faculty interest, see page 334.

MATH 585. (2-4) Seminar

MATH 599. (4-6) Master's thesis

The Department of Mathematics offers graduate programmes leading to the degrees of Master of Arts and Master of Science in Pure Mathematics, Applied Mathematics, Computer Science and Statistics.

COMPUTING SCIENCE

C SC 570. (2-4) Topics in Numerical Analysis

C SC 571. (2-4) Topics in Computing Science

C SC 572. (2-4) Topics in Optimization

C SC 573. (2-4) Advanced Computer Systems

C SC 574. (2-4) Non-Numerical Computing

STATISTICS

STAT 554. (2-4) Time Series Analysis

STAT 556. (2-4) Topics in Statistics

STAT 557. (2-4) Sampling Techniques

STAT 558. (2-4) Linear and Non-Linear Statistical Models

PACIFIC STUDIES PROGRAMME

Programme Director: Bryan H. Farrell, B.A. (*Cant.*), M.A. (*Wash.*), Ph.D. (*Auck.*), Professor, Geography.

The Interdisciplinary Pacific Studies Programme, approved by the Senate in February 1969, is designed at present to provide a concentration in the area of Pacific studies to be used for both general education and professional purposes. Its initiation stems from Canada's rapidly developing interest in the Pacific area, the location of Victoria in relation to the Pacific and a serious lack of knowledge about the area.

Students interested in the programme should consult the Director, Pacific Studies Programme, as soon as possible after entering the University, so guidance may be given to help in course selection during the first and second years.

Programme Requirements for a B.A. in Pacific Studies are as follows:

GENERAL

First and second years: one of the following courses is highly recommended: Chinese 100, 200; French 160, 260, 180, 280, 290; Japanese 100, 200; Portuguese 100, 200; Russian 100, 200; Spanish 100, 240.

Third and fourth years: Pacific Studies 300 and 6 units chosen from Pacific Studies 400, 401, 490 and six units selected from courses listed below.

MAJOR

First and second years: one of the following is highly recommended: Chinese 100, 200; French 160, 260, 180, 280, 290; Japanese 100, 200; Portuguese 100, 200; Russian 100, 200; Spanish 100, 240.

Third and fourth years:

- 1) 15 units from Pacific Studies 300, 400, 401, 490 including 3 units from courses listed below;
- 2) 9 additional units from courses listed below;
- 3) 6 units of other courses not already completed, which may be chosen from those recommended for first and second years, above.

Course list: Anthropology 320, 326, 328, 329, 345, 346; Economics 323, 350, 405, 420; English 439; Geography 360, 462, 463, 464, 465, 466, 467; History 252, 374, 402, 409, 413, 414, 416; History in Art 430; Linguistics 400, 450, 451; Philosophy 332; Political Science 312, 315, 317.

Further information may be obtained by consulting the Director or the following committee members:

William H. Alkire, B.A. (*Wash.*), M.A. (*Hawaii*), Ph. (*Ill.*), Associate Professor, Anthropology.

Louis A. Hobson, B.S. (*Humbolt St. Coll.*), M.S., Ph.D. (*Wash.*), Associate Professor, Biology;

Hsin-i Hsiao, B.A. (*Tunghai*), M.A., Ph.D. (*Harvard*), Assistant Professor, Slavonic & Oriental Studies.

David C. Lai, B.A., M.A. (*Hong Kong*), Ph.D. (*London*), Associate Professor, Geography.

Robert B. Lane, A.B., Ph.D. (*Wash.*), Associate Professor, Anthropology.

E. Patricia Tsurumi, B.A. (*Brit. Col.*), A.M., Ph.D. (*Harvard*), Assistant Professor, History.

Henry J. Warkentyne, B.A. (*West. Ont.*), M.A., Ph.D. (*London*), Assistant Professor, Linguistics.

COURSES

PACI 300. (3) Themes and Problems of the Pacific

This is an interdisciplinary course for students with an interest in the Pacific area. The course structure will be flexible to allow for lectures, discussions, reports, projects and the use of speakers outside the University on topics such as the following: trans-Pacific contacts and communications; genetic and typological relationships of language groups in the Far East, Pacific and Australia; inter-cultural contacts; Pacific settlement patterns; land organization and reform; landscape and the artist; industrialization and the emergent society; Asian nationalism; contemporary Chinese thought; and economic disparities in the Pacific. An underlying theme will be Canada's role and her relationship to Pacific problems and development. (3-0; 3-0)

PACI 400. (3) Seminar in East and Southeast Asian Studies

The seminar will be concerned with a discussion of major issues together with a detailed analysis of problems in East Asia and Southeast Asia. Where appropriate, attention will be paid to Canadian relationships with the area.

Prerequisite: Pacific Studies 300 or permission of Instructor. (3-0; 3-0)

PACI 401. (3) Seminar in Australasia and Pacific Island Studies

The seminar will be concerned with a discussion of major issues together with a detailed analysis of problems in Australia, New Zealand, and the Pacific Islands. Where appropriate attention will be paid to Canada's relationships with the area.

Prerequisites: Pacific Studies 300 or permission of Instructor.

(May not be offered 1974-75.) (3-0; 3-0)

PACI 490 (formerly 401). (3) Directed Studies

This will normally involve readings and a research project in a particular area of Pacific studies, in which the student is qualified. The individual programme of studies will be supervised by an appropriate faculty member designated by the Pacific Studies Committee.

Prerequisites: Pacific Studies 300.

DEPARTMENT OF PHILOSOPHY

John Woods, B.A., M.A. (*Tor.*), Ph.D. (*Mich.*), Professor and Acting Chairman of the Department.

Howard J. N. Horsburgh, M.A. (*Glasgow*), B.Litt. (*Oxon.*), Professor.

Kenneth W. Rankin, M.A., Ph.D. (*Edin.*), Professor. (On study leave 1974-75.)

Charles B. Daniels, A.B. (*Chicago*), D.Phil. (*Oxon.*), Associate Professor.

Eike-Henner Kluge, B.A. (*Calgary*), A.M., Ph.D. (*Mich.*), Associate Professor.

Rodger G. Beehler, B.A. (*Manitoba*), B.Phil. (*Oxon.*), Ph.D. (*Calgary*), Assistant Professor.

Alan R. Drengson, B.A., M.A. (*Wash.*), Ph.D. (*Ore.*), Assistant Professor.

John M. Michelsen, B.A., M.A., Ph.D. (*Wash.*), Assistant Professor.

GENERAL, MAJOR AND HONOURS PROGRAMMES

General — 9 units in courses in Philosophy numbered 300 or above with all prerequisites satisfied.

Major — 21 units in courses in Philosophy comprising:

(a) *either* Introduction to Philosophy (Phil. 100) *or* History of Philosophy (Phil. 102)

(b) Argument, Fallacy and Logical Theory (Phil. 202)

(c) Moral Philosophy (Phil. 302)

(d) *either* The Rationalists (Phil. 306) *or* The Empiricists (Phil. 308)

(e) 3 additional units from courses numbered 300 or higher

(f) Plato (Phil. 421) *and* Aristotle (Phil. 422)

(g) 3 additional units in courses numbered 400 or higher

N.B. Although not required, students are encouraged to include at least one of the following: Philosophy of Religion (Phil. 212), Philosophy of Science (Phil. 222), Aesthetics (Phil. 242), and Medieval Philosophy (Phil. 245).

Honours — 31½ units in courses in Philosophy comprising:

(a) *either* Introduction to Philosophy (Phil. 100) *or* History of Philosophy (Phil. 102)

(b) Argument, Fallacy and Logical Theory (Phil. 202)

(c) Moral Philosophy (Phil. 302)

(d) The Rationalists (Phil. 306)

(e) The Empiricists (Phil. 308)

(f) Kant (Phil. 400)

(g) Inductive Logic and Probabilistic Reasoning (Phil. 401)

(h) Plato (Phil. 421) *and* Aristotle (Phil. 422)

(i) Honours Seminar (Phil. 499)

(j) 3 additional units selected from Philosophy of Religion (Phil. 212), Philosophy of Science (Phil. 222), Aesthetics (Phil. 242), Medieval Philosophy (Phil. 245), *or* from courses numbered 300 or higher.

(k) 6 additional units in courses numbered 400 or higher

N.B. Honours candidates must maintain at least a 'B' average in their courses in Philosophy.

COURSES

Unless indicated otherwise, courses begin in September and end in April.

NOTE: Courses in the 100 series are broader in scope than those in the 200 series, but neither type should present any difficulty for the beginner. They are recommended for students in any programme whether they plan to continue in Philosophy or not,

and may be taken in any year: e.g. courses in the 200 series may be taken in the first as well as in later years. Other courses in Philosophy may be taken by satisfying the listed prerequisites or with the permission of the Instructor.

Fuller information on each course will be issued by the Department. This will include the reading required and the name of the Instructor. Students are advised to ask the Department for copies prior to registration.

PHIL 100. (3) Introduction to Philosophy

A beginner's investigation of questions which govern attitudes towards life such as: Is the unexamined life worth living? Is happiness the supreme good? Is virtue its own reward? Can the unjust man be happy? Does the individual exist for the good of the state, or the state for the good of the individual? What limits to freedom of thought and action are justifiable? Is what is right and what is wrong 'just a matter of opinion'? Is all our experience an illusion? Does God exist? If so, why did he create evil? Are any of our beliefs certainly true? How can we find out? By logic, observation and experiment, analogical reasoning, intuition, faith, or what?

The course will include a first-hand study of major philosophers, and, consequently of some of the more original contributions to our intellectual heritage. But the overriding concern is to teach the student how to respond in a co-ordinated, controlled, and critical way to the sorts of question which these philosophers have raised or provoked.

NOTE: This is a multi-sectioned course. Typical readings are from such texts as Plato's *Republic*, Aristotle's *Nicomachean Ethics*, Descartes' *Meditations*, Spinoza's *Ethics*, Berkeley's *Three Dialogues Between Hylas and Philonous*, Hume's *Dialogues Concerning Natural Religion*, Nietzsche's *Beyond Good and Evil*, Mill's *Essay on Liberty*, Ryle's *Dilemmas*, and more recent writings. But problems, types of approach, and texts vary from section to section. (3-0; 3-0)

PHIL 102. (3) History of Philosophy

This course is intended as an introduction to the history of philosophical thought in the West. The main emphasis, therefore, will lie on a chronological discussion of the philosophies of representative figures, and on tracing lines of development. An attempt will be made to relate the various positions to the social and cultural elements predominating in the societies of the various thinkers.

Texts: *Great Dialogues of Plato*; *The Philosophy of Aristotle*; A. Fremantle, ed., *The Age of Belief*; *The Rationalists*; *The Empiricists*.

E. Kluge.

(3-0; 3-0)

PHIL 202. (3) Argument, Fallacy and Logical Theory

An important aspect of human competence is a capacity for clear thinking, cogent advocacy and telling criticism. In the first part of this course conditions for the success and failure of such undertakings are pursued in an informal way. A review is made of various deficiencies, fallacies and paradoxes of everyday reasoning, and their repair is attempted. Different logical traditions are noted, including the Aristotelian and Indian schools of thought, and relevant differences between Rhetoric, Dialectic and pure Logic are also attended to.

The second half of the course develops an elementary formal theory by which to represent the basic logical structure of natural languages such as English. As the theory unfolds a number of key concepts are investigated, among which are: truth, proof, validity, necessity, contradiction, consistency, meaning, existence, and generalization. Part of the design of the course is to present issues that may prove relevant to an understanding of achievements and problems in other areas of study.

Text: John Woods, *Proof and Truth*.

John Woods.

(3-0; 3-0)

PHIL 207 (Classical Studies 207). (3) Greek Historical and Philosophical Thought

An introductory study of the development of Greek thought from the prescientific, mythical world views to the theories developed in the fourth century B.C. The parallel development of systematic historical and philosophical thought out of the common ground of the earlier myths will be examined, and the effort to develop acceptable

models of explanation for human as well as natural events will be seen to be a point common to the two strands of Greek thought. The philosophical emphasis will be on metaphysical and epistemological issues, and the ideas singled out for study will relate to the structure of the cosmos, the nature of man, and man's relationship to the universe. An attempt will be made to understand these ideas, not as isolated, technical doctrines, but as responses to problems arising within a particular cultural context.

Texts: Hesiod *Theogony* (Penguin); *Plato* (Mentor, ed. Rouse); *Aristotle* (Mentor, ed. Bambrough); *The Greek Historians* (ed. Toynbee); Aristotle; *Constitution of Athens* (ed. Haffner); others may be announced. (3-0; 3-0)

PHIL 211. (3) Existentialism

Through an examination of the writings of some main exponents of Existentialism, an effort is made to understand their various answers to the central question: "How can the individual maintain his freedom and dignity in a technological society dedicated to the ideals of comfort, efficiency, and security?" Among topics to be discussed are: the reaction against scientific rationalism; the reality of human freedom and choice; the encounter with Nothingness; the Absurd; the death of God; the significance of the extreme experiences of anguish and despair for the effort to realize an authentic form of existence.

Although the main emphasis is on philosophical writings, the connexion with existential art, literature, theology, and psychoanalysis will also be discussed.

Some works studied in recent years are: Kierkegaard, *Either/Or, Fear and Trembling*; Nietzsche, *Thus Spoke Zarathustra, The Antichrist*; Sartre, *Being and Nothingness* (selections), *Selected Plays*; Camus, *The Myth of Sisyphus, The Outsider, Selected Plays*; Kafka, *The Trial*; Laing, *The Divided Self*. (3-0; 3-0)

PHIL 212. (3) Philosophy of Religion

There have been many estimates of religion. It has been thought of as a crutch, a gamble, an illusion, a magnificent obsession, and the final answer to man's most momentous questions. Which is it? Or is it something quite different from what it seems? Philosophy has subjected religion to searching scrutiny. This class will consider some of the things that have emerged from the philosophical examination of religion.

Texts: To be announced.

H. J. N. Horsburgh.

(3-0; 3-0)

PHIL 222 (formerly 221 & 223). (3) Philosophy of Science

This course examines certain of the presuppositions of, and some philosophical questions raised by, the various sciences. A central preoccupation will be the analysis of casual and statistical patterns of explanation and of the logical structure of scientific laws and theories. Some attention is given to the nature of scientific confirmation and to such classical philosophical themes as whether there can be any freedom of the will in a universe governed by scientific laws. The course will also touch upon contemporary scientific understanding of the nature of time, of space, of life and of mind, and of purpose in nature. (Unavailable for credit to students with credit in former Phil. 221 and Phil. 223.)

Texts: To be announced.

John Woods.

(3-0; 3-0)

PHIL 232. (1½) Moral Problems of Contemporary Society

An investigation of certain moral problems which might be called social problems as well. Among the topics to be discussed are war, social protest and civil disobedience, revolution, sexual relations, abortion, suicide, poverty, destruction of the natural environment, fulfillment in work and the quality of life. Differing moral positions concerning these matters will be developed and their justifications sought out and examined.

Texts: J. Rachels & F. Tillman, *Philosophical Issues*; G. Grant, *Technology and Empire*.

R. G. Beehler.

September-December only. (3-0)

PHIL 233. (1½) Philosophy of Education

An inquiry into what can be taught, and the character of certain forms of understanding which cannot be taught. Among the questions to be asked are: What is education and what is its value? What is involved in coming to "see things in a new way"? Is such a transformation what education ought to aim at? How far is it the purpose of education to instruct people? Is education essentially a conservative force in society? Does it corrupt or liberate?

Texts: L. Versényi, *Socratic Humanism*; R. Williams, *Culture & Society*; R. S. Peters (ed.), *The Philosophy of Education*.

R. G. Beehler.

January-April only. (3-0)

PHIL 242. (3) Aesthetics

This course is an introductory examination of such basic problems of aesthetics as: What is a work of art? Do works of music differ from each other in much the same way as works in the plastic arts differ from each other? What role, if any, does consideration of emotions and intentions legitimately play in evaluation of a work of art? How does forgery differ from plagiarism? Time will be devoted to the discussion of the problems particular to each major art form, as well as to problems arising from comparison among these art forms.

Texts: Aristotle, *Poetics*; Tolstoy, *What is Art?*; Hanslick, *The Beautiful in Music*; Gombrich, *Art and Illusion*; Goodman, *Languages of Art*.

C. B. Daniels.

(3-0; 3-0)

PHIL 245. (3) Medieval Philosophy

A great many of our contemporary concepts and institutions find their origin in the era of intellectual ferment which was the Middle Ages. The purpose of this course is to give the student some insight into the depth and richness of philosophical, religious and political thought of the era, and to convey to him an appreciation of the complexity and sophistication of medieval intellectual endeavour. Since Western thought was heavily influenced by Islamic philosophies and by mystical speculations, a special section of the course will be devoted to the philosophy of Islam and its impact on the West, and another to an examination of medieval mysticism.

Texts: F. Copleston, *A History of Philosophy*, Vol. 2 (Pts. I & II) and Vol. 3 (Pt. I).

E. Kluge.

(3-0; 3-0)

PHIL 269. (3) The Self, Communication, and Understanding

In the first term, an introductory philosophical investigation of contemporary theories of the self as developed in the work of psychologists, psychiatrists, and sociologists, especially theories about the distinction between the normal and the abnormal, the conscious and the unconscious, personal fulfillment and lack of fulfillment. Among the questions to be asked are the following. Can we divide people into the normal and abnormal without appealing to some special privileged conception of what people ought 'really' to be like? Upon what sorts of things does a person's conception of himself depend, and how far is this conception of himself sensitive to the way other people appreciate or treat him? Is mental illness a disease of the self or a matter of diseased relations between the self and other persons? Is mental illness a myth or a reality? Are disturbances of the self at bottom symptoms of disturbed communication between selves?

In the second term, an introductory philosophical enquiry into communication between persons, the relation of thought to language, and the connection between the thought of an age and its prevailing media of expression. Among the questions to be pursued are: Can there be communication without signs, or symbols? What sorts of things prevent communication between persons? What sorts of things give rise to misunderstanding? Do people, who have radically different languages, have as a consequence radically different world views? Are there limits to our understanding of peoples of different times and cultures? Are all languages capable of mutual translation, or can some things not be said in some languages?

Texts: R. D. Laing, *The Divided Self, Sanity, Madness and The Family, The Politics of Experience and The Bird of Paradise*; E. Goffman, *Asylums, The Presentation of Self in Everyday Life*; B. Whorf, *Language, Thought and Reality*; M. McLuhan,

Understanding Media; J. Miller, *McLuhan*; R. Rosenthal (ed.), *McLuhan: Pro & Con*; and two other texts to be announced.

R. G. Beehler (with the cooperation of members of the Linguistics & Psychology Departments). (3-0; 3-0)

PHIL 302. [3] Moral Philosophy

A study of the theory and practice of the ethical traditions which have had the greatest influence on the contemporary world.

H. J. N. Horsburgh. (3-0; 3-0)

Not all the following courses will be offered every year. For fuller information see the Departmental handout issued in the summer.

PHIL 306. [3] The Rationalists

The main purpose of this course is to afford the student an in-depth study of the so-called "continental rationalists". To this purpose, the positions of representative figures will be examined in some detail and an attempt made to relate them to each other. Full emphasis will be placed on tracing the results of the rationalist's preoccupation with *a priori* necessary truths and the principle of sufficient reason vis-à-vis their theories of perception and knowledge.

Prerequisite: Philosophy 100 or 102, or permission of the Instructor.

Texts: To be announced.

E. Kluge. (3-0; 3-0)

PHIL 308. [3] The Empiricists

An intensive study of the major writings of Locke, Berkeley and Hume, with emphasis on their treatment of various epistemological and metaphysical issues. Works covered: Locke's *Essay on Human Understanding*; Berkeley's *Three Dialogues* and *Principles of Human Knowledge*; and Hume's *Treatise of Human Nature*.

Prerequisite: Philosophy 100 or 102, or permission of the Instructor.

(Not offered 1974-75.) (3-0; 3-0)

PHIL 324. [3] Philosophy of History

Major theories of history such as those of Hegel, Marx, Spengler, Toynbee, and Niebhur will be examined, as well as questions related to the conduct of historical inquiry. In addition, attention will be devoted to contemporary theories of history that attempt to explain the significance and direction of the 20th century.

Prerequisite: Philosophy 100 or 102, or History 234, 236, 240 or 242, or permission of the Instructor.

Texts: To be announced.

A. R. Drengson. (3-0; 3-0)

PHIL 326. (1½) Social and Political Philosophy

The following questions are examined: What are human needs? In what kind of society are these needs best provided for? What is the connection of freedom and equality to the needs of persons? What is the connection of government to these needs and how far can political institutions or political activity provide for the achievement of a good society? How do societies change? On what does social stability depend? What is the connection of religious, moral and economic life to political life? If the history of political life is a history of corruption and illusion what should we seek to put in its place? Or would this substitute too be an illusion?

Prerequisite: Philosophy 100 or 102, or Political Science 300, or permission of the Instructor.

Texts: T. Hobbes, *Leviathan*; J. Locke, *A Treatise on Government*; C. B. MacPherson, *The Political Theory of Possessive Individualism*; J. Plamontz, *Democracy & Illusion*; (Part only of *Leviathan* and Locke's *Treatise* will be read).

R. G. Beehler.

January-April only. (3-0)

PHIL 328. (1½) Philosophy of Law

An inquiry into the law touching upon such philosophical questions as: Is there an obligation to obey the law? Is one obligated to comply with an unjust law? Does one owe a duty of obedience to a corrupt government? How far does something's being the law depend upon there being a threat of punishment if one does not obey? How far do courts determine the contents of the laws? Is it within the competence of a judge to appeal to principles other than legal principles in deciding cases? Should the law enforce morality? Should the law protect persons from themselves?

Prerequisite: Philosophy 100 or 102, or permission of the Instructor.

Texts: H. L. A. Hart, *The Concept of Law*; R. A. Wasserstrom, ed., *Morality and the Law*; R. Dworkin, *Essays in Jurisprudence*.

R. G. Beehler.

September-December only. (3-0)

PHIL 332. (3) Eastern Philosophy

The main emphasis in this introductory course is on the major philosophic traditions of the East: Confucian, Taoist, Buddhist and Hindu. Readings from original texts, such as the *Analects*, *The Tao Te Ching*, *The Upanishads*, and others, form the basis for class discussions. An effort is made to compare major teachings of Eastern Philosophers with those of Western Philosophers.

Texts: To be announced.

A. R. Drengson.

(3-0; 3-0)

PHIL 334. (3) Philosophy of Language

Is a competent theory of language likely to advance our philosophic understanding of philosophically perplexing concepts? This and other questions are pursued with special attention to such matters as: whether there yet exists an adequate semantical analysis of meaning (Carnap); whether man possesses an innate genetic endowment with which alone standard linguistic competence is possible (Chomsky); whether meaning can adequately be accounted for in terms of men's dispositions to respond overtly to socially observable stimulations (Quine); whether a satisfactory theory of meaning needs to take into account various types of purpose with which utterances are made (Austin).

Prerequisites: Philosophy 100 or 102, Philosophy 202, or permission of the Instructor.

Texts: To be announced.

(3-0; 3-0)

PHIL 348. (1-3) Directed Studies in the History of Philosophy

Under the supervision of a staff member and with the approval of the Chairman of the Department.

Prerequisite: 6 units in Philosophy, or permission of the Instructor.

PHIL 400. (3) Kant

Intensive study of Kant's epistemology and metaphysics, principally as presented in *The Critique of Pure Reason*.

Prerequisites: Philosophy 100 or 102, 306 or 308, and an additional 3 units in Philosophy, or permission of the Instructor.

A. R. Drengson.

(3-0; 3-0)

PHIL 401. (1½) Inductive Logic and Probabilistic Reasoning

The course begins with a brief axiomatic presentation of the semi-interpreted probability calculus. Thereupon the primary objective is to find an acceptable semantics for the calculus. Various possibilities are reviewed, including: classical, empirical, personalist, and epistemological interpretations.

The related quest for an understanding of the structure of inductive argument will be pursued under these leadings: statistical inference, confirmation theories, acceptance theories, and the hypothetico-deductive method.

Prerequisites: Phil. 202, 222, or permission of the Instructor.

Texts: To be announced.

(Not offered 1974-75.)

(3-0)

PHIL 403 (formerly 402). (1 ½) Philosophical Logic

The primary objective is to determine the *philosophical* limitations of classical logic. By classical logic is meant bivalent first order quantification theory, together with the usual extensions of it adequate for identity theory and formal number theory. Among the questions that may be raised are: Is there satisfactory philosophical motivation for quantum logic or for many-valued logic generally? Does a good theory of reference counsel the rejection of bivalence? Does classical first order logic inhibit a philosophical understanding of existence, identity and predication? (Unavailable for credit to students with credit in former Philosophy 402.)

Prerequisite: Philosophy 202 or Math. 332 or 333, and an additional 3 units of Philosophy, or permission of the Instructor.

Texts: To be announced.

(Not offered 1974-75.)

(3-0)

PHIL 404 (formerly 402). (1 ½) Mathematical Logic

This course reviews basic results in classical mathematical logic up to and including the Gödel incompleteness theorem for formal number theory. Topics for discussion include: the propositional calculus, standard quantification theory, first order theories with equality, the categoricity of theories, completeness and decidability, number theory, recursive functions, Gödel's theorem and Tarski's theorem. (Unavailable for credit to students with credit in former Philosophy 402.)

Prerequisite: Philosophy 202 or Math. 332 or 333, or permission of the Instructor.

Texts: To be announced.

(Not offered 1974-75.)

(3-0)

PHIL 405. [3] Nineteenth-Century Philosophy

A detailed study of post-Kantian developments in Philosophy. These include the philosophy of Hegel, Fichte, Marx, and Schopenhauer, and — in the British tradition — Bentham, Austin, Mill, and Spencer. The emphasis of the course will be announced at the beginning of the year.

Prerequisite: 6 units in Philosophy, or permission of the Instructor.

J. M. Michelsen.

(3-0; 3-0)

PHIL 408. [3] Contemporary European Philosophy

A study of some leading European philosophers of the 20th century, such as Husserl, Heidegger, Sartre, and Merleau-Ponty.

Prerequisite: 6 units in Philosophy, or permission of the Instructor.

(Not offered 1974-75.)

(3-0; 3-0)

PHIL 410 (formerly 406). (1 ½) Designated Philosopher(s) or Topic(s) I

Study in depth of one or more major philosopher or philosophical topic, as determined by the Department in the light of current resources. In some years this course will be preliminary to Philosophy 411. (Unavailable for credit to students with credit in Philosophy 406 (3), except by permission.)

Prerequisites: Philosophy 100 or 102 and an additional 6 units in Philosophy, or permission of the Instructor. September-December only. (3-0)

PHIL 411 (formerly 406). (1 ½) Designated Philosopher(s) or Topic(s) II

Study in depth of one or more major philosopher or philosophical topic, as determined by the Department in the light of current resources. In some years this course will be an extension of Philosophy 410. (Unavailable for credit to students with credit in Philosophy 406 (3), except by permission.)

Prerequisites: Philosophy 100 or 102, Philosophy 410 (when offered) and an additional 6 units in Philosophy, or permission of the Instructor.

January-April only. (3-0)

PHIL 414. (3) Philosophy of Mind

A study of some of the questions about mind that are of relevance both to philosophy and the various empirical sciences that deal with man, *e.g.* psychology, neurophysiology, sociology, and anthropology: What is a person? Is he two things — a body and a mind? Can he exist in a disembodied state? Is his intelligence just a capacity for adaptative and discriminative behaviour? Or does it depend upon inner and private mental processes? Is introspective evidence in some way unscientific? Can machines think or can they only simulate thought? Are mental processes just brain processes? In part one of the course the general differences between dualist, behaviourist and physicalist solutions to these questions are considered. Then, in part two, more particular attention is given to the respective interpretations of such specific mental phenomena as intentions, emotions, feelings, sensations, perceptions, thoughts, beliefs, imagining and remembering.

Prerequisites: Philosophy 100 or 102, Philosophy 306 or 308, or permission of the Instructor.

Texts: To be announced. (3-0; 3-0)

PHIL 416. (1½) Knowledge and Certainty

An analysis of the concepts of knowledge, certainty, evidence, confirmation, *etc.* mainly in the context of philosophical scepticism about our knowledge of the external world, other minds, the past, and the future.

Prerequisite: 6 units in Philosophy, or permission of the Instructor.

Texts: To be announced.

(Not offered 1974-75.) (3-0)

PHIL 418. (1½) Theory of Perception

A study of such theories of perception as realism, representationalism, and phenomenalism.

Prerequisite: 6 units in Philosophy or permission of the Instructor.

Texts: To be announced.

(Not offered 1974-75.) (3-0)

PHIL 421 (formerly one-half of 300). (1½) Plato

A study of some central philosophical issues in Plato's middle and late dialogues. The content of the course may vary from year to year, and the student should consult the annual departmental brochure for a more specific description of the course for a given year.

Prerequisites: 9 units of Philosophy. Philosophy 102 or 207 is recommended as a suitable background for the course.

Texts: To be announced.

(Not offered 1974-75.) (3-0; 3-0)

PHIL 422 (formerly one-half of 300). (1½) Aristotle

A study of a main work or of a central problem in Aristotle's philosophy. The content of the course may vary from year to year, and the student should consult the annual departmental brochure for a more specific description of the course for a given year.

Prerequisites: 9 units of Philosophy. Philosophy 102 or 207 is recommended as a suitable background for the course.

Texts: To be announced.

(Not offered 1974-75.) (3-0; 3-0)

PHIL 432. (3) Metaphysics

An enquiry into some of the more general distinctions upon which our notion of reality depends. The course will vary in emphasis from year to year. Problems for investigation will be selected from one or more of the following three groups:

(a) On what basis do we distinguish between substance, quality, and relation? Are these distinctions purely language-relative, or are they inherent in the nature of things?

Do any of these categories have a more independent or privileged type of being than the rest? Are they irreducibly distinct or are some analysable into others? Is transubstantiation possible? Is substance just a concatenation of qualities? Are qualities just resemblance-relations between particulars? Are all relations internal? Are substances primarily material? What sort of substance is a person or self?

(b) Must every event have a cause? What sort of necessity is causal necessity? Is causal necessity nothing but constant conjunction? What distinguishes a cause from an effect? How are causal connections related to laws of nature? Are there emergent laws of nature? What is the distinction between an action and a mere happening? Do human agents have free-will? Is free-will compatible with determinism? Is it compatible with quantum-mechanical indeterminacy?

(c) What distinguishes the temporal from the spatial order? Are space and time just parts of one space-time continuum? Is any finite space or time divisible into an infinite number of parts? Is space Euclidean? Are geometrical axioms and theorems necessarily or only contingently true? What determines time's arrow? Why is our language tensed? Does the present have any duration? In what sense is the future open?

Prerequisite: 6 units in Philosophy or permission of the Instructor.

Texts: P. F. Strawson, *Individuals*; R. Gale, ed., *The Philosophy of Time*; other writings to be announced.

(Not offered 1974-75.)

(3-0; 3-0)

PHIL 448. (1-3) Directed Studies in Philosophical Topics

Under the supervision of a staff member and with the approval of the Chairman of the Department.

Prerequisite: 9 units in Philosophy, or permission of the Instructor.

PHIL 499. (0) Honours Seminar

A seminar course to provide students with an opportunity to present papers on topics they are working on and to engage in philosophical discussion. All students who plan to do a Major or Honours degree in Philosophy are encouraged to attend the meetings of this seminar even though they may not be currently enrolled in it.

Corequisite for final honours courses.

NOTE: The Department meets at the beginning of each winter session to review its undergraduate course offerings. Students are welcome to attend these meetings, and to submit, as well as discuss, proposals for change.

GRADUATE COURSES

Students will concentrate on the writing of a thesis, under the supervision of a member of the Department. Topics may be taken from the areas of Metaphysics, Epistemology, Ethics, Philosophy of Religion, Philosophy of Mind, Philosophy of Language, Social Philosophy and Political Philosophy. A supplement of course work, fitted to individual needs and interests, may also be prescribed. Normally this would not exceed two courses. To qualify for admission, however, candidates should have a good Honours degree in Philosophy or its equivalent.

PHIL 500. (3) Problems in Philosophy

PHIL 502. (3) Directed Studies

PHIL 599. (9-15) M.A. Thesis

DEPARTMENT OF PHYSICS

- Harry W. Dosso, B.A., M.Sc., Ph.D. (*Brit. Col.*), Professor and Head of the Department.
- John L. Climenhaga, B.A., M.A. (*Sask.*), Ph.D. (*Mich.*), Professor.
- John M. Dewey, B.Sc., Ph.D. (*London*), Professor.
- R. Michael Pearce, B.Sc. (*McGill*), M.A., Ph.D. (*Brit. Col.*), Professor. (Leave of absence 1974-75.)
- John T. Weaver, B.Sc. (*Bristol*), M.Sc., Ph.D. (*Sask.*), Professor.
- Lyle P. Robertson, B.A., M.A., Ph.D. (*Brit. Col.*), Professor.
- Walter M. Barss, B.A., M.A. (*Brit. Col.*), Ph.D. (*Purdue*), Associate Professor.
- Reginald M. Clements, B.A.Sc., M.A.Sc. (*Brit. Col.*), Ph.D. (*Sask.*), Associate Professor. (On study leave 1974-75.)
- Fred I. Cooperstock, B.Sc. (*Man.*), Ph.D. (*Brown*), Associate Professor.
- Gerhart B. Friedmann, B.Sc., M.A. (*Madras*), Ph.D. (*Brit. Col.*), Associate Professor.
- F. David A. Hartwick, B.Eng. (*McGill*), M.A., Ph.D. (*Tor.*), Associate Professor (Astronomy). (On study leave 1974-75.)
- Donald E. Lobb, B.E., M.Sc., Ph.D. (*Sask.*), Associate Professor.
- Grenville R. Mason, B.A.Sc. (*Brit. Col.*), M.Eng. (*McMaster*), Ph.D. (*Alta.*), Associate Professor.
- Harbhajan S. Sandhu, B.A., B.Sc., M.Sc. (*Panjab*), Ph.D. (*Brit. Col.*), Associate Professor.
- Colin D. Scarfe, B.Sc., M.Sc., (*Brit. Col.*), Ph.D. (*Cantab.*), Associate Professor (Astronomy).
- Harry M. Sullivan, B.Sc. (*Queen's*), B.Sc. (*Carleton*), M.Sc. (*McGill*), Ph.D. (*Sask.*), Associate Professor.
- George A. Beer, B.A.Sc., M.Sc. (*Brit. Col.*), Ph.D. (*Sask.*), Assistant Professor.
- J. Anthony Burke, A.B., A.M., Ph.D. (*Harvard*), Assistant Professor (Astronomy). (On study leave 1974-75.)
- James P. Elliott, B.S. (*Ill. Inst. of Tech.*), Ph.D. (*Stanford*), Assistant Professor.
- Robert E. Horita, B.A.Sc., M.A.Sc., Ph.D. (*Brit. Col.*), Assistant Professor.
- Charles E. Picciotto, A.B., M.A., Ph.D. (*Calif.*), Assistant Professor. (On study leave 1974-75.)
- Jeremy B. Tatum, B.Sc. (*Bristol*), Ph.D. (*London*), Assistant Professor (Astronomy).
- Chi-Shiang Wu, B.S. (*Nat. Taiwan U.*), M.S., Ph.D. (*Western Res.*), Assistant Professor.
- Donald E. Stenton, B.Sc. (*Brit. Col.-Vic. Coll.*), Senior Laboratory Instructor.
- Kenneth O. Wright, M.A. (*Tor.*), Ph.D. (*Mich.*), F.R.C.S., Director, Dominion Astrophysical Observatory, Honorary Professor.

PHYSICS GRADUATE PROGRAMMES

Consult the calendar under *Faculty of Graduate Studies*.

PHYSICS UNDERGRADUATE PROGRAMMES

Mathematics 12 is required for entry into the Physics and Astronomy undergraduate programmes; Physics 11 and 12 are expected, although students lacking Physics 11 or 12 may enter the programmes by registering in special sections of Physics 101. Students planning to take the Honours programmes should normally also have completed Chemistry 11 or 12. Advanced placement in Physics is available for students with high standing in both Mathematics 12 and Physics 12.

For a B.Sc. degree, students may take the General, Major, Honours Physics, Honours in Physics and Applied Mathematics programme. For a B.A. degree, students may choose the General programme in Physics for one of their fields of concentration.

<u>Year</u>	<u>General or Major</u>	<u>Honours Phys</u>	<u>Honours in Phys and Applied Math</u>
I.	Phys 101 or 121 Math 130	Phys 101 or 121 Math 130 Chem 120 or 124	Phys 101 or 121 Math 130 Chem 120 or 124 (Math 232)
II.	Phys 211 or 213 Phys 212 Math 231 (or 230 and 232)	Phys 211 or 213 Phys 212 Math 230 Math 232	Phys 211 or 213 Phys 212 Math 230 (Math 333)
III.	(Phys. 313) Phys 322 Math 303 or 330 Math 323 or 345	(Phys 313) Phys 321 Phys 322 Phys 413 Math 330 Math 345 or 323	Phys 321 Phys 322 Phys 413 Math 325†, 326† Math 334†, 336† Math —†, 338†
IV.	Phys 412† Phys 413 Phys elective(s)	Phys 410†, 420† Phys 412†, 421† Phys 422†, Phys† Phys 423†, Phys† Phys 429 Phys 460 Math 410†, Phys†	(Phys 313) Phys 422†, 421† Phys 423†, 420† Phys 460 Phys electives Math 445 Math electives

Astronomy 200 is a recommended elective in the second year.

Physics 121, 212, 213 Sequence

Physics 121 is restricted to students who have obtained at least a B standing in B.C. Secondary School Physics 12 and Mathematics 12. Physics 121 will normally be followed by Physics 212 and 213 in the second year. Physics 211 and 313 will be omitted.

Physics 101, 211, 212, 313 Sequence

Physics 101 is required by students who have not obtained at least second class standing in Physics 12 and Mathematics 12. Students who have obtained credit for Physics 11 only must register in a special section of Physics 101 with modified course content, while those who have not obtained credit for Physics 11 must register in Section 1 of Physics 101 with 5 lectures per week. Physics 101 will normally be followed by Physics 211 and 212 in the second year and by Physics 313 in a subsequent year. Physics 213 will be omitted.

GENERAL AND MAJOR PROGRAMMES

Specified Physics courses and acceptable electives must comprise at least 9 units of third- and fourth-year courses in the General programme and 15 units in the Major programme. The electives are normally chosen from Physics 321, 410†, 425†, 426†, 427†, and Astronomy courses. Physics 413 may be taken in the third year. Physics 412† may be omitted in the General programme. Fourth year students are invited to attend Physics 460 (Seminar).

HONOURS PROGRAMME

Admission to the third and fourth years of the Honours programmes requires the permission of the Department. Students in the Honours programmes will be expected to maintain at least second class standing. The Physics electives are normally chosen from Physics 424†, 425†, 426†, 427† and Astronomy courses. In the Honours in Physics and Applied Mathematics Programme Physics 412† and 429 are additional electives. Mathematics 232 may be deferred to the second year, Mathematics 333 must then be deferred to the third or fourth year.

† — 1½ units

PHYSICS COURSES

Unless indicated otherwise, courses begin in September and end in April.

Where *consent of the Department* is specified as a course prerequisite, this consent must be obtained from the Department Head or his nominee.

Attention is drawn to Physics 103, a course intended for students who wish to increase their understanding of science and the physical world as part of their cultural development. It is not intended as a prerequisite for further courses in Physics.

Students should note the availability of Physics 310 (page 205), Science 300 (page 228), and Liberal Arts 305 (page 169).

In many of the courses, especially those beyond first year, students will be given short lists of reference books that are helpful supplements to the prescribed texts, but that generally do not have to be bought by the students. Students may generally expect weekly problem assignments and a number of one-hour tests during the term.

PHYS 101. (3) Elementary Physics

The basic physical concepts of mechanics, heat, sound, light, electricity and magnetism. This course, rather than Physics 121, is required of students who have not obtained at least second class standing in B.C. Secondary School Physics 12 and Mathematics 12. Students who have credit for Physics 11 only must register in a special section (3 or 5) with modified course content, while those who have not obtained credit for Physics 11 must register in Section 1 with 5 lectures per week.

Prerequisite: Mathematics 130 (may be taken concurrently).

Text for Sections 1, 3, 5: Weber, Manning and White. *College Physics*.

Text for Sections 2, 4, 6: Shortley and Williams, *Elements of Physics*, 5th Ed.

Drs. Beer, Climenhaga, Friedmann, Horita, Mason. (3-3; 3-3)

PHYS 103. (3) A Survey of Physics

From Newton's mechanics to nuclear physics—a description of ideas, principles and their applications. This course is intended for students who wish to increase their understanding of science and the physical world as part of their cultural development. Credit cannot be obtained for both Physics 101 and Physics 103.

Text: Ganow and Cleveland, *Physics Foundations and Frontiers*.

Drs. Climenhaga, Lobb, Sullivan. (3-3; 3-3)

PHYS 121. (3) Mechanics

Vectors, statics, kinematics, relative motion, Lorentz transformation, particle dynamics, momentum, angular momentum, energy, central forces, dynamics of a system of particles, collisions, many-particle systems, heat and temperature, equation of state of an ideal gas, moment of inertia, rigid-body dynamics, relativistic dynamics, high energy collisions, oscillating motion, gravitation.

Prerequisites: At least second-class standing in B.C. Secondary School Mathematics 12 and Physics 12, Mathematics 130 (may be taken concurrently) and consent of the Department, which may be obtained during registration.

Text: Alonso and Finn, *Fundamental University Physics*, Volume 1.

Dr. Elliott. (3-3; 3-3)

PHYS 211. (3) Mechanics

This course is similar in content to Physics 121 but the treatment assumes a background consistent with the listed prerequisites. Laboratories on alternate weeks. Credit cannot be obtained for both Physics 121 and Physics 211.

Prerequisites: Physics 101, Mathematics 231 (may be taken concurrently) or Mathematics 230 and 232 (both may be taken concurrently).

Text: Alonso and Finn, *Fundamental University Physics*, Volume 1.

Dr. Cooperstock. (3-3*; 3-3*)

*Laboratories on alternate weeks.

PHYS 212. (3) Electricity and Magnetism, Electronics, and Modern Physics

Fundamentals of electricity and magnetism, introductory electronics and topics in modern Physics. Laboratories on alternate weeks.

Prerequisites: Physics 101 or 121, Mathematics 231 (may be taken concurrently, or Mathematics 230 and 232 (both may be taken concurrently)).

Texts: Halliday and Resnick, *Physics*, Part II; Beiser, *Modern Physics*.

Drs. Sandhu, Sullivan. (3-3*; 3-3*)

PHYS 213. (3) Optics, Wave Motion, Heat and Elementary Thermodynamics

Optics (geometrical and physical), wave motion and, in the second term, heat and the elementary theory and applications of thermodynamics. Laboratories on alternate weeks.

Prerequisites: Physics 121 or 211, Mathematics 231 (may be taken concurrently), or Mathematics 230 and 232 (both may be taken concurrently).

Texts: To be announced.

Dr. Barss. (3-3*; 3-3*)

PHYS 310. (3) Physics of the Environment

Physical aspects of the natural environment, the management of energy resources, and the environmental effects of technology. This course is intended for both science and non-science students, and in particular may be taken by Physics and Astronomy students as a free elective outside the prescribed programmes in Physics and Astronomy.

Prerequisites: Credit for 15 units at university level; one of Physics 101, 121 or equivalent, or permission of the Department.

Texts: To be announced.

Dr. Dosso and Members of the Department. (3-0; 3-0)

PHYS 313. (3) Optics, Wave Motion, Heat and Thermodynamics

Optics (geometrical and physical), wave motion, heat and the theory and applications of thermodynamics. Credit cannot be obtained for both Physics 213 and Physics 313.

Prerequisites: Physics 121 or 211, Mathematics 231 or Mathematics 230 and 232.

Texts: Morgan, *Introduction to Geometrical Optics*; Lee and Sears, *Thermodynamics*.

Dr. Sandhu. (3-3; 3-3)

PHYS 321. (3) Classical Mechanics

Analytic mechanics of particles, rigid bodies, Lagrangian and Hamiltonian mechanics, potential functions, wave equation, modes of oscillation.

Prerequisites: Physics 121 or 211, Mathematics 303 or 330 and 323 or 345 or equivalent courses (any may be taken concurrently), and consent of the Department.

Text: Symon, *Mechanics*, 3rd Ed.

Dr. Weaver. (3-0; 3-0)

PHYS 322. (3) Electricity and Magnetism

Fundamentals of electricity and magnetism, basic circuit theory, and concepts of electric and magnetic fields leading up to Maxwell's equations.

Prerequisites: Physics 121 or 211, and 212, Mathematics 303 or 330 and 323 or 345 or equivalent courses (any may be taken concurrently), or consent of the Department.

Text: To be announced.

Dr. Barss. (3-3; 3-3)

PHYS 410. (1½) Topics in Mathematical Physics I

Cartesian tensors, with applications; elementary topics in functions of a complex variable applied to physical problems.

* Laboratories on alternate weeks.

Prerequisites: Physics 121 or 211, Mathematics 303 or 330, and 323 or 345, or equivalent courses.

Text: Butkov, *Mathematical Physics* (which will also serve for Physics 420), or selected paperbacks, to be announced.

Dr. Elliott. September-December only. (3-0)

PHYS 412. (1½) Advanced Optics

Advanced geometrical and physical optics; lenses, optical instruments, interference, diffraction, polarization, spectroscopy.

Prerequisites: Physics 213 or 313, Physics 322 or consent of the Department, Mathematics 303 or 330 and 323 or 345 (any may be taken concurrently).

Text: To be announced.

Dr. Dosso. September-December only. (3-0)

PHYS 413. (3) Introductory Modern Physics

The major phenomena in the field of atomic and nuclear physics.

Prerequisites: Physics 212, Physics 213 or 313 (the latter may be taken concurrently) or permission of the Department; Mathematics 303 or 330 and 323 or 345 or equivalent courses (any may be taken concurrently).

Text: Semat and Albright, *Introduction to Atomic and Nuclear Physics*, 5th Ed.

Dr. Mason. (3-3; 3-3)

PHYS 420. (1½) Topics in Mathematical Physics II

Mathematical methods for physicists, with special emphasis on the solution of boundary value problems; contour integration, gamma function, asymptotic expansions, Fourier and Laplace transforms; generalized functions and Green's functions.

Prerequisites: Physics 410 or equivalent and consent of the Department.

Text: Butkov, *Mathematical Physics*, or selected paperbacks, to be announced.

Dr. Elliott. January-April only. (3-0)

PHYS 421. (1½) Statistical Mechanics

Boltzmann, Bose-Einstein and Fermi Dirac statistics.

Prerequisites: Physics 213 or 313, Physics 321, Mathematics 330 and 323 or 345, and consent of the Department.

Text: Reif, *Fundamentals of Statistical and Thermal Physics*.

Dr. Lobb. January-April only. (3-0)

PHYS 422. (1½) Electromagnetic Theory

Potential theory, Maxwell's equations, electromagnetic waves.

Prerequisites: Physics 322, Mathematics 303 or 330 and 323 or 345 or equivalent courses, and consent of the Department.

Text: Corson and Lorrain, *Electromagnetic Fields and Waves*.

Dr. Horita. September-December only. (3-0)

PHYS 423. (1½) Introductory Quantum Mechanics

Operator postulates, barrier penetration, harmonic oscillator, one-electron atom, angular momentum operators, spin.

Prerequisites: Physics 321 and 413, Mathematics 330 and 323 or 345 or equivalent courses, Mathematics 410 or equivalent (may be taken concurrently), and consent of the Department.

Text: Eisberg, *Modern Physics*. September-December only. (3-0)

PHYS 424. (1½) Modern Physics

Time-independent perturbation theory, identical particles, Fermi gas, multi-electron atoms, specific heat of solids, nuclear models, collision theory. Topics in nuclear, atomic and solid state physics.

Prerequisites: Physics 423, and consent of the Department.

Text: Eisberg, *Modern Physics*. January-April only. (3-0)

PHYS 425. (1 ½) Electronics

Electronic circuit theory with applications.

Prerequisites: Physics 322, Mathematics 303 or equivalent courses.

Text: Brophy, *Basic Electronics for Scientists*.

Dr. Beer.

January-April only. (3-0)

PHYS 426. (1 ½) Fluid Mechanics

Introduction to basic theory of flow, kinematics of flow, Navier-Stokes equations, boundary layers, turbulent flow, introduction to compressible flow.

Prerequisites: Physics 213 or 313, Mathematics 303 or 330 and 323 or 345 or equivalent (any may be taken concurrently).

Text: Michelson, *The Science of Fluids*.

Dr. Dewey.

January-April only. (3-0)

PHYS 427. (1 ½) Geophysics

Physics of the earth, including atmospheric studies and extra-terrestrial effects. Structure and composition of the earth, elementary seismology, and geomagnetism.

Prerequisites: Physics 322 (may be taken concurrently), Mathematics 303 or 330 and 323 or 345 or equivalent (any may be taken concurrently).

Text: Garland, *Introduction to Geophysics*.

Dr. Horita.

January-April only. (3-0)

PHYS 429. (3) Senior Laboratory and Theory of Measurement

Advanced experiments including student projects. Instruction on experimental techniques and theory of measurement.

Prerequisites: Physics 413, Physics 421, 422 and 423 (all three may be taken concurrently) and consent of the Department.

Text: One of: Barford, *Experimental Measurements: Precision, Error and Truth*; Squires, *Practical Physics*.

Dr. Robertson.

(0-6; 0-6)

PHYS 460. (0) Physics Seminar

Talks by students, faculty, and outside speakers.

(2-0; 2-0)

PHYS 490. (1-3) Directed Studies

Students must obtain the consent of the Department before registering.

PHYSICS GRADUATE COURSES

Students should consult the Department concerning the courses offered in any particular year.

PHYS 500. (3) Quantum Mechanics

PHYS 501. (3) Nuclear Physics

PHYS 502. (3) Electromagnetic Theory

PHYS 503. (3) Theory of Relativity

PHYS 504. (3) Atomic and Molecular Spectroscopy

- PHYS 505. (3) **Advanced Classical Mechanics**
- PHYS 510. (3) **Advanced Methods in Mathematical Physics**
- PHYS 511. (3) **Applied Topics in Nuclear Physics**
- PHYS 512. (3) **Upper Atmosphere Physics**
- PHYS 514. (3) **Gas Dynamics**
- PHYS 515. (3) **Geomagnetism and Solar-terrestrial Relationships**
- PHYS 516. (3) **Acoustics**
- PHYS 517. (3) **Magnetism**
- PHYS 518. (3) **Plasma Physics**
- PHYS 519. (3) **Selected Topics in Geophysics**
- PHYS 521. (3) **Intermediate Energy Physics**
- PHYS 560. (0) **Seminar**
- PHYS 580. (1-3) **Directed Studies**
- PHYS 599. (credit to be determined but normally in this Department 6 units) **M.Sc. Thesis**
- PHYS 600. (3) **Advanced Quantum Mechanics**
- PHYS 699. (credit to be determined) **Ph.D. Dissertation**

The thesis or dissertation requirement for advanced degrees (Physics 599 or 699) applies to all students in the department, both Physics and Astronomy.

ASTRONOMY UNDERGRADUATE PROGRAMMES

Major and Honours Astronomy programmes are offered for the B.Sc. degree.

Admission to the third and fourth years of the Honours programmes requires the permission of the Physics Department. Students in the Honours programmes will be expected to maintain at least second class standing.

The first two years of the Major and Honours Astronomy programmes are the same as the corresponding Physics programmes, with the addition of Astronomy 200.

<i>Year</i>	<i>Major</i>	<i>Honours</i>
III.	Astr 300 (Phys 313) Phys 322 Math 303 or 330 Math 323 or 345	Astr 300 (Phys 313) Phys 321 Phys 322 Phys 413 Math 330 Math 345 or 323
IV.	Astr 400† or 401† Astr 403†, 404† Phys 412† Phys 413	Astr 400† or 401† Astr 403†, 404† Astr 429 Astr 460 Phys 410†, 420† Phys 412† Phys 422† or 423† Electives

Students wishing to enter the third year of the Major or Honours programme without having completed Astronomy 200 will normally be required to take Astronomy 200 in their third year. Astronomy 300 should then be deferred to the fourth year.

Physics 313 is required if credit has not been obtained for Physics 213 in the second year. Astronomy 300 may be deferred to the fourth year.

MAJOR PROGRAMME

Third and fourth year students are invited to attend Astronomy 460, Astronomy Seminar.

HONOURS PROGRAMME

The Honours programme normally consists of 18 units in each of the third and fourth years. This may include Astronomy 200 in the third year if credit has not been obtained for this course in the second year.

Students selecting the Physics 423† option are reminded of the Mathematics 410† co-requisite.

The electives, chosen in consultation with the Physics Department, are normally selected from Physics 421†, 424†, 425†, 426†, 427†.

ASTRONOMY COURSES

Unless indicated otherwise, courses begin in September and end in April.

Attention is drawn to Astronomy 120, a course intended for students who wish to increase their understanding of science and the physical world as part of their cultural development. It is not intended as a prerequisite for further courses in Astronomy.

† 1½ units.

ASTR 120. (3) Elementary Astronomy

This course is primarily for students not majoring in Astronomy. It will present Astronomy as a representative science in its ancient and modern contexts. Topics will include: the earth, the moon, the planets, stars, stellar systems, galaxies, the universe, cosmology, cosmogony, space flight, and extra-terrestrial life. Practical and observational work will be included. Laboratories on alternate weeks.

Senior science and mathematics students who want a single astronomy course should take Astronomy 200 rather than Astronomy 120.

Text: Abell, *Exploration of the Universe*. (3-3*; 3-3)

ASTR 200. (3) General Astronomy

Astronomical co-ordinate systems, time, the earth-moon system, the solar system, stellar distances, spectral classification, stellar evolution, variable stars, stellar motions, star clusters, interstellar medium, structure and rotation of the galaxy, external galaxies and cosmology.

Prerequisites: Physics 101 or 121, Mathematics 130.

Text: Smith and Jacobs, *Introductory Astronomy and Astrophysics*.

Dr. Climenhaga. (3-3; 3-3)

ASTR 300. (3) Galactic and Dynamical Astronomy

Galactic and dynamical astronomy, galactic structure and stellar dynamics; the techniques of positional astronomy; introductory celestial mechanics, including the two body problem, the three body problem, and perturbation theory.

Prerequisites: Astronomy 200 or the consent of the Department, Physics 121 or 211, Mathematics 303 or 330 and 323 or 345 or equivalent (any may be taken concurrently); Physics 321 is recommended.

Text: Van de Kamp, *Elements of Astromechanics*.

Drs. Scarfe, Tatum. (3-0; 3-0)

ASTR 400. (1 1/2) Radio Astronomy

The detection of cosmic radio waves; mechanisms for production of radio noise; the sources of radio waves; the contribution of radio astronomy to our knowledge of the universe.

Prerequisites: Astronomy 200 or the consent of the Department, Physics 322, 413 (may be taken concurrently), Mathematics 303 or 330 or equivalent.

Text (Optional): Steinberg and Lequeux, *Radio Astronomy* (translated by Bracewell).

(Offered in 1974-75; Not offered in 1975-76.) January-April only. (3-0)

ASTR 401. (1 1/2) Modern Astronomy

A variety of modern topics, such as solar physics, cosmology, galaxies, radar astronomy.

Prerequisites: Astronomy 200 or the consent of the Department, Physics 413 (may be taken concurrently), Mathematics 303 or 330, and 323 or 345 or equivalent courses.

(Not offered in 1974-75; Offered in 1975-76.) January-April only. (3-0)

ASTR 403. (1 1/2) Introduction to Astrophysics I

The observational data of astrophysics; stellar atmospheres and the production of stellar spectra.

Prerequisites: Astronomy 200 or the consent of the Department, Physics 213, or 313, Physics 413 (may be taken concurrently), Mathematics 303 or 330, and 323 or 345 or equivalent courses.

Text: Unsöld, *The New Cosmos*.

Dr. Tatum. September-December only. (3-0)

* Laboratories on alternate weeks.

ASTR 404. (1½) Introduction to Astrophysics II

The structure and evolution of the stars; interstellar matter; high energy astrophysics.
Prerequisites: Astronomy 403 or consent of the Department.

Text: Unsöld, *The New Cosmos*.

January-April only. (3-0)

ASTR 429. (3) Observational Astronomy

Observational and practical work, directed reading. Normally open to Honours students only. Others by consent of the Department.

Members of the Department.

(0-6; 0-6)

ASTR 460. (0) Astronomy Seminar

Talks by students, faculty and outside speakers.

(2-0; 2-0)

ASTR 490. (1-3) Directed Studies

Students must obtain the consent of the Department before registering.

ASTRONOMY GRADUATE COURSES

ASTR 500. (3) Stellar Atmospheres

ASTR 501. (3) Stellar Structure and Evolution

ASTR 502. (3) Binary and Variable Stars

ASTR 503. (3) The Interstellar Medium

ASTR 504. (3) Galactic Structure

ASTR 511. (3) Advanced Topics in Astronomy

ASTR 560. (0) Seminar

ASTR 580. (1-3) Directed Studies

The thesis requirement for advanced degrees (Physics 599 or 699) applies to all students in the department, both Physics and Astronomy.

DEPARTMENT OF POLITICAL SCIENCE

Walter D. Young, B.A. (*Brit. Col.*), B.A., M.A., (*Oxon.*), Ph.D. (*Tor.*), Professor and Chairman of the Department.

Ronald I. Cheffins, B.A., LL.B. (*Brit. Col.*), LL.M. (*Yale*), Professor.

Edgar S. Efrat, B.A. (*Reed Coll.*), M.A., Ph.D. (*Texas*), Associate Professor.

Richard J. Powers, B.A. (*New Mexico*), M.A., Ph.D. (*Claremont*), Associate Professor.

Neil A. Swainson, B.A., B.Ed., M.A. (*Brit. Col.*), Ph.D. (*Stanford*), Associate Professor.

Howard L. Biddulph, B.S. (*Brigham Young*), M.A., Ph.D. (*Indiana*), Assistant Professor.

Peter R. Robbins, B.A., (*Brit. Col.*), B.A. (*Cantab.*), Ph.D. (*London*), Assistant Professor.

Norman J. Ruff, B.Sc. (Econ.) (*Southampton*), M.A. (*McMaster*), Ph.D. (*McGill*), Assistant Professor.

Mark H. Sproule-Jones, B.Sc. (Econ.) (*London*), M.A., Ph.D. (*Indiana*), Assistant Professor. (On study leave 1974-75.)

John T. Morley, B.A. (*Dalhousie*), Lecturer.

G. Reid Elliott, B.A. (*Sask.*), M.A., Ph.D. (*Tor.*), Acting Director, Executive Development Training Plan for Provincial Civil Servants.

GENERAL, MAJOR AND HONOURS PROGRAMMES

The Department of Political Science offers Major and Honours programmes leading to the B.A. and an M.A. graduate programme. Third and Fourth Year students not enrolled in the general, major or honours programmes may take as a free elective any third or fourth year course in Political Science for which no prerequisite or other restriction is specified.

Information about current course offerings may be obtained from the Departmental Office in the Cornett Building.

General — A concentration in political science under the general programme requires 6 units of political science courses numbered at the 100 or 200 level and 9 units at the 300 or 400 level.

Major — The Major programme is open to students who have completed 6 units of political science courses numbered at the 100 or 200 level. Major students are required to complete 15 units of political science courses at the 300 or 400 level with a minimum of 3 units from each of at least three of the Groups I-VII.

Honours — The Honours programme in political science is open to third year students who have a 'B' average in 6 units of political science courses numbered at the 100 or 200 level. An overall "B" average is required to continue the programme in the Fourth Year. Students seeking admission to this programme should apply to the Department by August 1.

The Honours programme requires completion of 24 units of political science courses numbered at the 300 and 400 level with a minimum of 3 units from each of at least three of the Groups I-VII. The 24 units must include Poli 337 and Poli 499.

All Honours students are required to attend and participate in the Departmental Seminar and Fourth Year Honours students must successfully complete a programme of directed research and a graduating essay (Poli 499).

Students should note the availability of Liberal Arts 305 as an elective in their senior years. Students considering graduate work in political science are STRONGLY advised to take Poli 300 and 337. Major and Honours students are urged to consult a faculty member in the Department prior to the planning of their Third and Fourth Years' programmes.

DEPARTMENT OF POLITICAL SCIENCE — UNDERGRADUATE COURSE STRUCTURE

First and Second Year

100 (3)

201 (1½) 210 (1½) 220 (1½) 230 (1½) 240 (1½) 250 (1½)

Third and Fourth Year

I	II	III	IV
<i>Political Theory</i>	<i>Comparative Government</i>	<i>Public Law</i>	<i>Contemporary Political Analysis</i>
300 (3)	310 (3)	320 (3)	330 (1½)
303 (1½)	311 (3)	325 (1½)	331 (1½)
304 (1½)	312 (3)	420 (3)	337 (3)
400 (3)	315 (1½)	421 (3)	
407 (3)	317 (3)	427 (3)	
408 (1½)	417 (1½)		
409 (1½)			
V	VI	VII	VIII
<i>International Relations</i>	<i>Public Administration and Policy Analysis</i>	<i>Canadian Government and Politics</i>	<i>Honours</i>
340 (3)	350 (3)	360 (3)	490 (1-3)
342 (1½)	454 (1½)	361 (1½)	499 (3)
343 (1½)	455 (1½)	465 (1½)	
445 (3)	456 (3)	466 (1½)	
446 (1½)			

PROGRAMME STRUCTURE

6 units of courses numbered at the 100 or 200 level

General	Major	Honours
9 units of courses numbered at the 300 or 400 level.	15 units at the 300 or 400 level. These must include 3 units in each of at least 3 of the Groups I-VII.	377, 499 and additional units to a total of 24 at the 300 or 400 level. These must include 3 units in each of at least 3 of the Groups I-VII.

COURSES

Unless indicated otherwise, courses begin in September and end in April.

POLI 100. (3) Canadian Government and Politics

An introduction to Political Science through an examination of the politics and institutions of Canadian government. The course will include analysis of the social and economic context of Canadian politics and will cover such topics as parties, voting behaviour, nationalism and regionalism, federalism, parliament, the bureaucracy, the courts and the policy processes.

Students who have credit in Political Science 216 or 318 or 410 in previous years may not enrol in this course for credit.

Dr. Young, Dr. Ruff and Mr. Morley.

(3-0; 3-0)

POLI 201. (1½) Political Ideologies

An introduction to the study of politics through an examination of the major twentieth century political doctrines and ideologies. Emphasis will be given to those which are most relevant to Canadian political life: nationalism, conservatism, liberalism and socialism. Some attention will be paid to problems raised by indoctrination and ideological thinking.

Dr. Robbins. September-December. Also January-April. (3-0)

POLI 210. (1½) Comparative Government

An introductory course designed to acquaint the student with political concepts and the basic structures and processes of modern government through an examination of foreign governments, e.g., USA, UK, USSR. . . .

Dr. Efrat. September-December. Also January-April. (3-0)

POLI 220. (1½) Law and Politics

An introduction to the study of the role of law in the political process. A description of the judicial structure in Canada, and the processes of the judiciary in the English-speaking world as compared with the European tradition. The relationship between the judiciary and other parts of the political system. The problems of order and legal change will be discussed with illustrations drawn from criminal and constitutional law. Emphasis will be placed on legislation and delegation as instruments of legal change and social reform. There will be one written assignment and one formal examination at the end of the term.

Mr. Cheffins. September-December only. (3-0)

POLI 230. (1½) Political Behaviour

An introduction to the contemporary analysis of politics. Topics will include elections, parties, groups, bureaucracies, public enterprise, and legislatures. Topics will emphasize federal, British Columbia provincial and local government experience.

Mr. Morley. September-December. Also January-April. (3-0)

POLI 240. (1½) International Politics

An introduction to approaches in the study of international politics including foreign policies and the conduct of contemporary international relations.

Dr. Powers. September-December only. (3-0)

POLI 250. (1½) Public Policy Formation in Canada

An introductory examination of the impact of cultural, economic and political factors in the determination of Canadian public policies.

This course will include some case studies which compare the policy formation process in Canada with that of other countries.

Dr. Swainson. January-April only. (3-0)

GROUP I — POLITICAL THEORY

POLI 300. (3) Problems in Political Philosophy

An examination of persistent political problems and arguments, concepts and metaphors, from Plato to the present day—for example: social justice; political obligation; ideas of freedom; force, power and authority; common good and general will; natural right; social contract; political education. Emphasis will be placed equally upon analysis and explication of such problems, their historical context and development, and the interpretation of their primary textual sources.

Dr. Robbins. (3-0; 3-0)

POLI 303. (1½) Early Modern Political Thought

An examination of six 16th century political thinkers: Machiavelli, More, Luther, Calvin, Bodin and Hooker.

(Not offered 1974-75.) (3-0)

POLI 304. (1½) Political Thought from Hobbes to Bentham

An examination of utilitarian, market, contract and political virtue themes with reference to Hobbes, Locke, Montesquieu, Burke, Rousseau and Bentham.

Dr. Young.

September-December only. (3-0)

POLI 400. (3) Nineteenth Century Political Thought

A close study of nineteenth century social and political thought, both as a basis for understanding contemporary ideologies and as a source of explanatory political ideas. The centre of gravity will be the thought of Hegel, Marx, J. S. Mill and T. H. Green. The major doctrines—conservatism, utilitarianism, positivism, liberalism, socialism, nationalism, social Darwinism and anarchism—will also be discussed.

(Not offered 1974-75.)

(3-0; 3-0)

POLI 407. (3) Contemporary Political Thought

An examination of some of the major twentieth century contributions to the development of normative political theory. Some of the material to be discussed is outside the confines of traditional political discourse and reflects the fragmented nature of contemporary political thought. Emphasis will be placed more upon the theoretical and philosophical than upon the doctrinal and ideological modes of political thought. Most of it, no matter how analytical, is primarily evaluational and the expression of a commitment.

Prescribed reading: Nietzsche, *The Twilight of the Idols*; Tawney, *The Acquisitive Society*; Neibuhr, *Moral Man and Immoral Society*; Camus, *The Rebel*; Sartre, *Dirty Hands*; Fromm, *The Sane Society*; Marcuse, *Eros and Civilization*; Bay, *The Structure of Freedom*; Rawls, *A Theory of Justice*; Fanon, *The Wretched of the Earth*; Bertrand de Jouvenel, *Sovereignty*; and Arendt, *The Human Condition*.

Dr. Robbins.

(3-0; 3-0)

POLI 408. (1½) Communist Political Thought I

An analysis of the contributions to political thought of the classical thinkers of Marxism-Leninism: Marx, Engels, Lenin, Trotsky, Bukharin, Lukacs, Gramsci, Mao Tse-Tung. Emphasis will be placed more upon the theoretical and analytical rather than ideological modes of thought, comparing interpretations of political reality, conceptions of political legitimacy and obligation.

Restricted to upper division students.

(Not offered 1974-75.)

(3-0)

POLI 409. (1½) Communist Political Thought II

An examination of the major contributions to political thought of contemporary thinkers in the Communist world. The fragmentation of political values and the decline of utopian ideas among thinkers in Yugoslavia, Poland, Czechoslovakia, Hungary and the U.S.S.R. will be examined.

Restricted to upper division students.

Dr. Biddulph.

January-April only. (3-0)

GROUP II — COMPARATIVE GOVERNMENT

POLI 310. (3) The Governments of the United Kingdom and United States

Studies of British and American governments and politics—comparative analyses of the parliamentary and presidential systems, federal and unitary structures and related problems.

Dr. Efrat.

(3-0; 3-0)

POLI 311. (3) Western European Government and Politics

A comparative analysis of the political culture, political behaviour, parties and interest groups, governmental institutions and policy-making processes of Western European democracies. Primary emphasis will be given France, the German Federal Republic, Italy and the United Kingdom.

Dr. Biddulph.

(3-0; 3-0)

POLI 312. (3) Communist Political Systems

An analysis of governmental processes in Communist ruled political systems, with emphasis upon Eastern Europe, the U.S.S.R., and mainland China; comparative analysis of communist revolutions, parties and groups, leadership elites, policy-making and administration, political culture and socialization; and the development of the Communist international systems.

Dr. Biddulph.

(3-0; 3-0)

POLI 315. (1½) Government and Politics in the U.S.S.R.

An intensive analysis of the governmental process in the Soviet Union; examination of the political development of the U.S.S.R., the political culture and socialization process, interest groups and policy-making process, administration and the judicial system.

(Not offered 1974-75.)

(3-0)

POLI 317 (formerly 411). (3) Politics of Developing Nations

An examination of the current political development and the political processes in developing countries, with emphasis on Asia and Latin America. The course is organized on a seminar basis; each participant is required to prepare a research report on a topic chosen in consultation with the instructor.

Dr. Efrat.

(3-0; 3-0)

POLI 417. (1½) Government and Politics in Sub-Saharan Africa

An introduction to the politics of the African nation-states south of the Sahara. Particular attention is devoted to the comparative facets of governments, political ideologies, modernization, aid and trade, and Canadian involvement.

Dr. Efrat.

January-April only. (3-0)

GROUP III — PUBLIC LAW

POLI 320. (3) Constitutional Law

An introduction to the basic problems of Canadian constitutional law; federalism; constitutional amendment; distribution of authority; judicial review; the protection of civil liberties; and related problems. The primary method of grading will be by written examinations at the end of the first and second terms. It is strongly recommended that students take Political Science 100 or have credit for Political Science 216, before taking this course.

Mr. Cheffins.

(3-0; 3-0)

POLI 325. (1½) Law and Public Policy

This course continues the examination of the role of law in the political process begun in Political Science 220. The course will examine in greater depth the part played by the judiciary in the control of power exercised by other participants in a political system. There will be an examination of legal philosophy and its impact on policy formation in the modern state. In particular, the nature and definition of justice will be examined and its importance in modern society. There will be an examination of law and morals and the limits of effective legal action.

(Not offered 1974-75.)

(3-0)

POLI 420. (3) Administrative Law

Study of the relation between law and the administrative process; procedures and powers of administrative tribunals; and judicial and legislative control of administrative action.

Prerequisite: It is recommended that students take one of Political Science 320 or 325 prior to taking this course.

(Not offered 1974-75.)

(3-0; 3-0)

POLI 421. (3) Advanced Constitutional Law

An advanced legal analysis of specific Canadian Constitutional issues which may include the following: civil liberties, the Supreme Court of Canada, the search for an amendment formula and constitutional revision, the impact of the division of legislative power on public policies. (3-0; 3-0)

POLI 427. (3) Jurisprudence

Advanced study of contemporary jurisprudential theory including an examination of legal realism, natural law, positivism, sociological jurisprudence and recent studies in the field of judicial behaviour. Special emphasis will be placed on studying law as a social science and analyzing the relationship between law and politics.

Prerequisite: Political Science 320 OR 325 with a grade of "B -" or higher.

Mr. Cheffins.

(3-0; 3-0)

GROUP IV — CONTEMPORARY POLITICAL ANALYSIS

POLI 330. (1½) Public Opinion and Electoral Behaviour

The course is designed to give the student a close familiarity with the key theoretical and research studies on (a) the factors underlying the formation of individual political opinions and the making of electoral decisions; (b) the formation and effectiveness of party and candidate strategy for electoral purposes; and (c) the relation of elections to the political system. Emphasis will be given to B.C. data based studies, and a research project on some aspect of B.C. public opinion and electoral behaviour will be part of the course obligations.

(Not offered 1974-75.)

(3-0)

POLI 331. (1½) Executive and Legislative Politics

A consideration of the functions, roles, behaviour and organization of representative assemblies in Canada, Britain and the United States. Executive-legislative relationships will be emphasized.

(Not offered 1974-75.)

(3-0)

POLI 337. (3) The Scape and Methods of Political Science

The purpose of the course is twofold: (a) to acquaint the student with the activities of modern political scientists, in particular their attempts to devise empirical theories of politics, and the problems they face in undertaking any empirical research project; and (b) to afford the student an opportunity to conceptualize and experiment with a political problem area of interest to himself. Course obligations include one examination at Christmas time, and one paper due at the end of the Spring Term. (Not recommended as a general elective; recommended for Honours students in their third academic year.) (3-0; 3-0)

GROUP V — INTERNATIONAL RELATIONS

POLI 340. (3) International Studies

Seminar in the theory and practice of relations among modern nation-states. An examination of the traditional methods of studying international politics will be followed by an introduction to normative and empirical theory and contemporary methodologies.

Dr. Powers.

(3-0; 3-0)

POLI 342. (1½) International Law

An introductory seminar in the principles and practices of international law. Focus will be both historical and contemporary, and the emphasis will be in the political implications of international law.

(Not offered 1974-75.)

(3-0)

POLI 343. (1½) International Organization

An introductory seminar in the theory and development of international organizations. Primary attention will be devoted to the League of Nations and the United

Nations; however, regional and subordinate intergovernmental organizations will be examined. (3-0)

POLI 445. (3) Comparative Foreign Policy

Seminar in the formulation, execution and evaluation of foreign policy. The development of a theoretical model for foreign policy analysis will be followed by an application of the model to the current foreign policies pursued by the major nation-states. Each student will be responsible for systematically examining the foreign policy of one nation-state.

Dr. Powers.

(3-0; 3-0)

POLI 446. (1 1/2) Canadian Foreign Policy

An examination of contemporary Canadian foreign policy, its aims, methods and effects and Canada's role in world affairs. Particular attention will be placed on the context (historical, political, cultural, geographic, economic) of policy making and the instruments (diplomatic, legal, political, economic, military) of its execution.

Each student, in addition to gaining a general appreciation of Canada's international position, will be expected to research some particular aspect or relationship of Canadian foreign relations. (3-0)

GROUP VI — PUBLIC ADMINISTRATION AND POLICY ANALYSIS

POLI 350. (3) Public Administration

An introduction to the evolution of the administrative process in the English-speaking world; approaches to bureaucracy; the theory and practice of administrative decision-making; a review of substantive issues in budgeting, organizational structure, personnel administration; administrative power and responsibility. Two essays plus fortnightly colloquium sessions.

Dr. Swainson.

(3-0; 3-0)

POLI 454. (1 1/2) Introduction to Local and Regional Government

A seminar in the following topics: the theory of local government; a comparative study of the local and regional governments of the United Kingdom, France, the United States and Canada; power and politics in the local community; the public finance of local government; inter-governmental relationships; the local bureaucracy; current policy issues for local and regional governments.

Dr. Swainson.

September-December only. (3-0)

POLI 455. (1 1/2) The Government and Politics of Metropolis

A seminar in the following topics: the metropolitan community, models and types; the complexities of metropolitan government; current social and economic maladies; the need for and structural roads to integrated governmental action; integration via the marketplace; the politics of structural reform; metropolis and 'superior' levels of government; the secular city and the City of God.

Dr. Swainson.

January-April only. (3-0)

POLI 456 (formerly 435). (3) Political Institutions and Public Policy

The course will apply Public Choice theory to the analysis of political institutions and institutional behaviour. Consideration will be given to the theory of public goods and externalities, methods of evaluating the efficiency of public services, and the design of institutional arrangements to reflect the demands of the citizen-consumer for diverse public policies. Emphasis will be placed on public policies in B.C. in general and Greater Victoria in particular. Course obligations will include a research project on a local policy problem or aspect of a local problem in the Spring Term.

(Not offered 1974-75.)

(3-0; 3-0)

GROUP VII — CANADIAN GOVERNMENT AND POLITICS

POLI 360 (formerly 316: 419). (3) Issues in Canadian Federalism

A study of the dynamics and contemporary problems of Canadian federalism. The course will survey the framework and development of the federal system and concen-

trate on an analysis of selected questions which currently confront the federal and provincial levels of government. Students who have credit in Political Science 316 or 419 in previous years may not enrol in this course for credit.

Dr. Ruff.

(3-0; 3-0)

POLI 361 (formerly 332). (1 ½) Interest Groups and Parties in Canada

A survey of the major theoretical studies of political parties, interest groups and theories of representation in the Canadian context. Particular attention will be paid to the development, structure and activity of Canadian political parties.

Dr. Young.

January-April only. (3-0)

POLI 465 (formerly 415). (1 ½) British Columbia Government and Politics

An examination of the political process and political institutions in British Columbia. Areas of study will be drawn from such topics as the party system, elections, political cleavages, political leadership and selected aspects of the provincial policy process seen in the context of the political and economic development of the province.

Dr. Ruff.

September-December only. (3-0)

POLI 466 (formerly 416: 418). (1 ½) Issues in Canadian Politics

An analysis of selected issues in the Canadian political process with a primary focus on the formulation of public policy and party politics at the federal or provincial level.

Mr. Morley.

January-April only. (3-0)

GROUP VIII — HONOURS

POLI 490 (formerly 480). (1-3) Directed Reading

Directed reading and/or research for Honours Students under the supervision of an available faculty member. Open to Majors only with the permission of the Department.

POLI 499 (formerly 490). (3) Directed Research and Graduating Essay

Individual direction for fourth-year Honours Students only.

GRADUATE COURSES

Students should consult the Department to determine the graduate courses offered in any particular term.

POLI 500. (1 ½ or 3) Seminar in the Political Theory of Philosophical Idealism

POLI 511. (1 ½ or 3) Seminar in Democracy, Ideology and Societal Change

POLI 512. (1 ½ or 3) Seminar in Communist Political Development

POLI 516. (1 ½ or 3) Seminar in Canadian Politics

POLI 517. (1 ½ or 3) Seminar in African Politics

POLI 520. (1 ½ or 3) Seminar in Canadian Constitutional Problems

POLI 535. (1 ½ or 3) Seminar in Public Choice

POLI 540. (1 ½ or 3) Seminar in International Relations

POLI 550. (1 ½ or 3) Seminar/Colloquium in Administrative Behaviour

POLI 580. (6) Legislative Internship

This course is offered on an experimental basis for the 1974-75 academic year.

POLI 590. (Credit to be determined) Directed Readings

POLI 599. (Credit to be determined, but usually 3 to 6 units) Thesis

DEPARTMENT OF PSYCHOLOGY

- Gordon N. Hobson, B.A., M.A., Ph.D. (*Alta.*), Professor and Chairman of the Department.
- Alex Bavelas, B.S. (*Springfield*), M.A. (*Iowa*), Ph.D., (*M.I.T.*), Professor.
- Horace D. Beach, B.S.A., B.A. (*Sask.*), M.A. (*Oxon*), Ph.D. (*McGill*), Professor.
- William H. Gaddes, M.A. (*Brit. Col.*), Ph.D. (*Claremont*), Professor. (On study leave 1974-75.)
- G. Alexander Milton, B.A. (*West. Wash.*), M.S. (*Ore.*), Ph.D. (*Stanford*), Professor.
- Otfried Spreen, B.A. (*Bonn*), Dipl.-Psych., Ph.D. (*Freiburg*), Professor. (On study leave 1974-75.)
- Ronald A. Hoppe, A.B. (*Mich.*), M.A., Ph.D. (*Mich. St. U.*), Associate Professor.
- Richard B. May, B.A. (*Whitman*), M.A., Ph.D. (*Claremont*), Associate Professor.
- Charles W. Tolman, B.S., M.S., Ph.D. (*Wash.*), Associate Professor.
- H. Edward Tryk, B.A. (*San Jose*), M.A., Ph.D. (*Ore.*), Associate Professor.
- R. Leslie D. Wright, B.A., M.A., (*Brit. Col.*), Ph.D. (*Tor.*), Associate Professor.
- Loren E. Acker, A.A., B.A., Ph.D. (*Calif., Los Angeles*), Assistant Professor.
- Janet B. Bavelas, A.B., M.A., Ph.D. (*Stanford*), Assistant Professor.
- Pam Duncan, B.A. (*Wis. St.*), M.A. (*Chicago*), Ph.D. (*Wis.*), Assistant Professor.
- Bram C. Goldwater, B.A. (*McGill*), M.A. (*Cornell*), Ph.D. (*Bowling Green*), Assistant Professor.
- Lorne K. Rosenblood, B.S. (*Case Western Reserve*), M.A., Ph.D. (*Ohio*), Assistant Professor and Assistant Chairman of the Department.
- Frank J. Spellacy, B.A. (*West. Wash.*), M.Sc. (*Ore.*), Ph.D. (*U. of Vic.*), Assistant Professor.
- David R. T. Walker, B.A. (*U. of Vic.*), M.A., Ph.D. (*Iowa*), Assistant Professor.

GENERAL, MAJOR AND HONOURS PROGRAMMES

Several undergraduate programmes are offered by the Department of Psychology. The concentration in the General programme is designed to provide flexibility and a general background for students planning to enter other fields such as social work or journalism. The Honours programme is recommended for students planning graduate work in scientific or professional psychology. The Major programme requires a degree of specialization in the last two years, and may permit the student to proceed to graduate study or to professional training or business careers if sufficiently high standing is obtained. A student may proceed to either a B.Sc. or B.A. in psychology, see pages 90-91. A student taking a Major or Honours programme is encouraged to consult a member of the Department early in his academic career.

The Department of Psychology recognizes the right of a student to demonstrate competence in any area of these programmes by passing an appropriate examination.

General — Psychology 100 is strongly recommended in the first year. Psychology 200 or 220 or 230 or 240 or 250 is required (usually taken in the second year). Students must complete a minimum of three upper level (third and fourth year) courses (9 units) during their third and fourth years.

Major — Psychology 100 is strongly recommended in the first year, Psychology 200 or 220 or 230 or 240 or 250 is required (usually taken in the second year). Psychology 301 is recommended. Major students must take Psychology 300 plus a minimum of four additional psychology courses (12 units) numbered above 300 in their third and fourth years.

Honours — Students seeking an Honours degree in Psychology should apply to the Honours Advisor of the Department before the start of their third year, although

under some circumstances an applicant may be accepted at the start of his final year. Psychology 100 is strongly recommended in the first year. Psychology 200 or 220 or 230 or 240 or 250 is required (usually taken in the second year). Psychology 300, 301, 400 or 401, and 499 are required, plus an additional three psychology courses (9 units) numbered above 300 in their third and fourth years. At least one of these additional courses must be chosen from each group (A and B).

<i>A</i>	<i>B</i>
Psychology 311 Learning	Psychology 330 Personality
Psychology 411 Perception	Psychology 331 Social Psychology
Psychology 414 Motivation	Psychology 335 Developmental Psychology
Psychology 415 Human Neuropsychology	Psychology 402 Experimental Social Psych.
Psychology 423 Physiological Psychology	Psychology 430 Abnormal Psychology
Psychology 434 Animal Behavior	

A 3.5 grade point average for all work and a 5.5 grade point average in Psychology are normally minimum Departmental requirements for an Honours degree.

Outside electives are recommended in the third and fourth years.

RECOMMENDED ELECTIVES

FIRST AND SECOND YEARS

Students planning to major or honour in Psychology are urged to select at least one course from each of several areas outside of the Psychology Department. A first year mathematics course or recent completion of Mathematics 12 or its equivalent is prerequisite for Psychology 300. Students who plan to take Psychology 230, or 415 or 423 or 434 are encouraged to take Biology 150. Members of the department will be happy to recommend other courses to fit individual programmes.

THIRD AND FOURTH YEARS

The Psychology Department recognizes the diversity of career orientations which might lead a student to concentrate in Psychology. Accordingly it suggests the following guidelines for upper level courses.

Students planning to enter social services — mental health, school psychology, social work, parole, child care and related fields: Psychology 311, 330, 331, 335, 415, 430 or 432, 450, plus courses in philosophy and social sciences.

Students planning careers in business and industry, civil service, government, personnel work: Psychology 311, 330, 331, 334, 401, 414, 432, plus courses in economics, political science, geography, mathematics.

Students planning to pursue advanced degrees in Psychology, but not enrolling in Honours: Psychology 300, 301, 311, 400 or 401, and at least one course from each group (A and B).

<i>A</i>	<i>B</i>
Psychology 311 Learning	Psychology 330 Personality
Psychology 411 Perception	Psychology 331 Social Psychology
Psychology 414 Motivation	Psychology 335 Developmental Psychology
Psychology 415 Human Neuropsychology	Psychology 402 Experimental Social Psych.
Psychology 423 Physiological Psychology	Psychology 430 Abnormal Psychology
Psychology 434 Animal Behavior	

NOTE: The Bachelors degree in Psychology is intended primarily to prepare the student for further advanced study in Psychology or related fields (Education, Social Welfare, etc.), and in no way implies professional competence as a psychologist without such advanced training. Although students may on occasion find employment of a psychological nature with an undergraduate degree, it is expected that further preparation, perhaps in the form of in-service training, will normally be required by employers.

COURSES

PSYC 100. (3) General Psychology

A survey of the current status of selected problems in psychology including motivation, learning, perception, brain processes, psychological testing, and applications to school, industry, and personal adjustment.

Members of the Department.

(3-0; 3-0)

PSYC 200. (3) Introduction to Experimental Psychology

A study of empirical approaches to the understanding of human behaviour and methods of its control. Topics in learning, perception and motivation will be explored, with an examination of psychological theories of the processes underlying these phenomena, experimental findings, and applications outside the laboratory. Related methodological techniques will be integrated with these topics throughout the course.

Drs. Wright, Acker.

(2-2; 2-2)

PSYC 220. (3) Introduction to Personality

A study of empirical approaches to the understanding of individual personality. Includes several theories of personality (e.g. Freud, Jung, Maslow), methods of assessing personality, creativity, psychopathology. Related methodological techniques will be integrated with these topics throughout the course.

Dr. Hobson.

(2-2; 2-2)

PSYC 230. (3) Introduction to Psychobiology

A study of empirical approaches to the understanding of the relationships between biological functions and of behaviour. Topics will include the study of the brain mechanisms underlying human and animal behaviour, psychological effects of brain damage and such contemporary problems as drugs and behaviour, behaviour genetics, physiological correlates of emotion, sleep and dreaming, and the treatment of behaviour disorders. An attempt will be made to integrate many of these topics within the context of the physiology of memory. Related methodological techniques will be integrated with these topics throughout the course.

Dr. Walker.

(2-2; 2-2)

PSYC 240. (3) Introduction to Social Psychology

A study of empirical approaches to the understanding of man's social behaviour. Topics will include social facilitation, social learning, aggression, conformity, attitudes, conflict, communication, and group performance. Related methodological techniques will be integrated with these topics throughout the course.

Dr. Rosenblood.

(2-2; 2-2)

PSYC 250. (3) Introduction to Applied Psychology

The course covers aspects of social psychology, abnormal psychology, personality, environmental psychology, industrial and personnel psychology as pertinent to the study of social welfare, social work, child welfare, public administration and law.

Drs. Duncan, Rosenblood.

(3-0; 3-0)

Note: Students may receive credit for only one of these second year courses, Psychology 200 or 220 or 230 or 240 or 250.

For Psychology courses numbered 300 or above, Psychology 200 or 220 or 230 or 240 or 250 is a prerequisite unless an exemption is specifically stated in the course description. If a student is in doubt about this requirement he should consult the department, 196 Cornett.

PSYC 300. (3) Research Methods in Psychology

Intensive development of statistical reasoning and methodology in the application of research procedures to various areas of psychology. Emphasis upon meaningful actual usage of such techniques in the planning, conduct, analysis, interpretation, and reporting of empirical research by the class and individual students.

Prerequisites: Mathematics 180 or Mathematics 102/151 or Mathematics 130, or recent completion of Mathematics 12, or acceptable alternative qualifications as decided by the Instructor. Upon application, special second year students may be admitted.

Drs. Tolman, May, Wright. (2-3; 2-3)

PSYC 301. (3) Philosophical and Theoretical Foundations of Contemporary Psychology

An examination of the theoretical and methodological assumptions underlying the psychological study of behaviour, and their historical origins and development. A consideration of topics in the philosophy of science, theoretical models in modern psychology, controversial issues, and a comparison of different approaches to the study of human behaviour.

Dr. Tolman. (3-0; 3-0)

PSYC 311. (3) Learning

A critical survey of the basic experimental findings and theories of the learning process. Experiments with both animals and humans may be conducted.

Dr. Goldwater. (2-2; 2-2)

PSYC 330. (3) Personality

An introduction to contemporary personality theory and research. Survey of several traditional theories of individual behaviour (e.g. Freud, Rogers, need-achievement), plus emphasis on newest developments in the field (e.g. social influences on personality). Considerable emphasis on research and methods of evaluating theories. Several exams; one or two term projects.

Drs. J. Bavelas, Tryk. (3-0; 3-0)

PSYC 331. (3) Social Psychology

A survey of theories and findings in the following areas: social perception, socialization, social motivation, attitude development and change, interpersonal interaction, and group processes. Each student prepares one paper each term. (3-0; 3-0)

PSYC 334. (3) Industrial Psychology

An exploration of various applications of psychology to organizational behaviour and personnel selection with special emphasis on industry. Typical subjects for discussion: work environment, reward structures, training and counseling, problems of change and transition, advertising and marketing, human engineering, administrative process, organizational communications. Basis for grades: Objective exams on independent readings, short essay quizzes based on lectures, group projects.

Dr. A. Bavelas. (2-2; 2-2)

PSYC 335. (3) Developmental Psychology

Psychological development; determiners of psychological growth; motor, emotional, social, intellectual, language and personality development. Implications for the guidance of psychological development are indicated. (Faculty of Education does not recognize this course for credit for Education students.)

Drs. Duncan, Acker, Milton. (2-2; 2-2)

PSYC 350. (3) Environmental Psychology

The course is concerned with the study of the interrelationships between the physical environment (both built and natural) and man's behaviour in that environment. Coverage of this newly emerging area of investigation will account for and develop the work of psychologists, other social scientists, planners and designers in this field. A field project may be required. The contributions of different areas of psychology — primarily social, experimental and psychophysics — to this area will be emphasized. (A second year psychology course is not required).

Dr. A. Bavelas. (3-0; 3-0)

PSYC 370 (LING 370). (3) Psycholinguistics

Offered in collaboration with the Department of Linguistics. A course in the psychology of language covering such topics as the nature and function of language, language acquisition and language change, the pathology of language and cognition. Students may be admitted at the discretion of the instructors and/or their Departments. Two term papers will be required. Linguistics 100 and Psychology 100 are recommended. (A second-year psychology course is not required).

(Not offered 1974-75.)

(3-0; 3-0)

PSYC 390. (3) Special Problems in Psychology

Directed independent study for the student. Complete arrangements must be made with an instructor in the Department before registering.

Members of the Department.

PSYC 400. (3) Advanced Research Methods

Experimental design and statistical techniques will be applied to problems in psychology. A brief review of hypothesis testing and nonparametric statistics will be followed by extensive treatment of analysis of variance, regression, factor analysis and multivariate analysis of variance. Emphasis will be placed upon problems of application and interpretation.

Prerequisite: Psychology 300 or equivalent.

Texts: G. Keppel, *Design and Analysis: A Researcher's Handbook*; D. Morrison, *Multivariate Statistical Methods*.

Drs. May, Rosenblood.

(2-2; 2-2)

PSYC 401. (3) Psychometrics

The application of quantitative methods to problems in applied psychology. Topics to be covered include the measurement of individual differences, scaling, correlational analysis, test construction, and research issues in psychological assessment. Individual research projects may be conducted. A formal written report of the student's completed research project is required.

Prerequisite: Psychology 300 or equivalent.

Dr. J. Bavelas.

(2-2; 2-2)

PSYC 402. (3) Experimental Social Psychology

An examination of research and methodology in selected areas of social psychology. Individual research projects may be conducted.

Prerequisite: Psychology 300, equivalent, or permission of the instructor. (3-0; 2-2)

PSYC 411. (3) Perception

The experimental study of visual and auditory perception. Topics to be discussed may include sensory processes, psychophysics, hearing and speech perception, visual perception, the perception of art, and the effects of environment on perception. Students are expected to conduct an experiment or prepare a term paper in the area of perception.

Dr. May.

(2-2; 2-2)

PSYC 414. (3) Motivation

The primary question — how best can the forces underlying human behaviour be studied. Theoretical, conceptual and methodological issues arising out of consideration of both natural science (man is a machine?) and human science (man is more than a machine?) models form the basis of the course. Topics include the role of the unconscious, emotions, cognition, physiology, creativity, intention, etc., in determining or reflecting human behaviour.

Drs. Walker, Hobson.

(3-0; 3-0)

PSYC 415. (3) Human Neuropsychology

The study of brain-behaviour relationships. The first term of the course is primarily concerned with the neurophysiological and neuroanatomical bases of behaviour. The

second term focusses upon research and clinical studies in neuropsychology. Demonstrations of selected patients with cerebral lesions at the Royal Jubilee Hospital will be arranged during the second term. One term paper is required. Biology 150 is recommended.

Dr. Spellacy.

(2-2; 2-2)

PSYIC 423. (3) Physiological Psychology

One term: Introduction to neuroanatomy and neurophysiology, research techniques in physiological psychology, experimental findings from primarily animal research. Topics will include the sensory systems, brain mechanisms underlying sleep and attention, and the physiological bases of motivation, learning and memory. The other term: Human psychophysiology: the study of the physiological correlates of behaviour in the intact human subject. Topics will include the autonomic nervous system; measures and principles of psychophysiological research; physiological correlates of emotion, sleep and dreaming, and psychopathology; conditioning of autonomic responses; lie detection; and psychosomatic disorders. Biology 150 is recommended.

Drs. Goldwater, Walker.

(2-2; 2-2)

PSYC 430. (3) Abnormal Psychology

Definitions and models of the behaviour disorders; study of behaviour disorders with regard to social attitude, origins, development, manifestations, assessment and treatment. Emphases are on both the behavioural and humanistic approaches to problems in abnormal psychology. Tentative structure of the course includes one formal term paper. This course is intended for Psychology majors and Honours. Credit will not be given for both Psychology 430 and 432.

Drs. Tryk, Acker, Wright.

(3-0; 3-0)

PSYC 432. (3) Survey of Clinical Psychology

An introductory survey of clinical psychology, including clinical research, methods of behaviour assessment and modification, and the role of the clinical psychologist in the community. Tentative structure of the course includes guest speakers, lectures and discussion. Admission is open only to third and fourth-year students. (A second-year psychology course is not required as a prerequisite). Not open to Majors and Honours in Psychology.

Dr. Duncan.

(3-0; 3-0)

PSYC 434. (3) Animal Behaviour

A study of the phylogeny, functions and processes of animal behaviour from both the field-descriptive and laboratory-experimental points of view. This course is given in association with Biology 444 and 445 and students may not register for both Psychology 434 and Biology 444 - 445.

Prerequisite: Biology 150. Recommended: Psychology 300 or Biology 304.

(Not offered 1974-75.)

(2-2; 2-2)

PSYC 450. (3) Mental Deficiency

A survey of research theory and applied aspects of mental subnormality. Open to non-psychology students in related fields. Includes visits to several institutions. One term paper required.

Prerequisite: Psychology 100 (or equivalent) *and* written consent of department. (A second year psychology course is not required as a prerequisite.)

(3-0; 3-0)

PSYC 490. (3) Advanced Special Problems in Psychology

Independent study for the advanced student. Complete arrangements must be made with an instructor in the Department before registering.

Members of the Department.

PSYC 499. (3) Honours Thesis and Seminar

Students are required to complete an Honours Thesis. Class meetings will be centered around seminar discussions of student research.

Prerequisite: Honours standing. Laboratory hours will be arranged.

Dr. Tolman, Members of the Department.

(2-2; 2-2)

NOTE: Students may take Liberal Arts 305 (page 192) and/or Science 300 (page 243) as an elective in their senior years.

GRADUATE COURSES

Students must consult the Department concerning courses offered in any year.

PSYC 501. (1 ½-4 ½) Proseminar

PSYC 502. (1-4 ½) Research Apprenticeship

PSYC 503. (1 ½-6) Practicum in Clinical Psychology

PSYC 504. (1 ½-6) Individual Study

May be offered in areas A through Z (excluding I and O). The student must consult with his instructor about the area of his individual study prior to registration. A maximum of 6 units of PSYC 504 may be taken in any one Winter Session at the discretion of the student's Supervisory Committee.

PSYC 505. (1 ½-6) Animal Learning

PSYC 506. (1 ½-6) Human Learning

PSYC 507. (1 ½-6) Personality

PSYC 508. (1 ½-6) Motivation

PSYC 509. (1 ½-6) History of Psychology

PSYC 510. (1 ½-6) Theories of Psychology

PSYC 511. (1 ½-6) Comparative Psychology

PSYC 512. (1 ½-6) Physiological Psychology

PSYC 513. (1 ½-6) Sensory Psychology

PSYC 514. (1 ½-6) Perception

PSYC 515. (1 ½-6) Human Neuropsychology

PSYC 516. (1 ½-6) Psychotherapy

PSYC 517. (1 ½-6) Research Methods in Psychology

PSYC 518. (1 ½-6) Psychometric Methods

PSYC 519. (1 ½-6) Social Psychology

PSYC 520. (1 ½-6) Developmental Psychology

PSYC 521. (1 ½-6) Human Factors

PSYC 522. (1 ½-6) Personnel Psychology

PSYC 523. (1 ½-6) Psychopathology

PSYC 524. (1 ½-6) Psychological Assessment

PSYC 525. (1 ½) Learning Disorders

PSYC 526. (1 ½) Social Processes

PSYC 527. (1 ½) Social Design

PSYC 528. (1 ½) Clinical Psychology

PSYC 529. (1 ½-6) Psychophysiology

PSYC 530. (1 ½-6) Animal Motivation and Conflict

PSYC 531. (1 ½-6) Environmental Psychology

PSYC 532. (1 ½-6) Pharmacopsychology

Courses PSYC 505 to PSYC 524 and 529-532 inclusive may be taken in areas A, B, C and/or D. More than one area may be taken in any one Winter Session to a maximum of 6 units at the discretion of the student's Supervisory Committee. Each area carries 1½ units of credit. The specific content of each area will be designated prior to registration.

PSYC 570. (1 ½) Psycholinguistics

PSYC 599. (3-6) Thesis

PSYC 602. (1-6) Independent Research

PSYC 603. (1 ½-6) Advanced Clinical Practicum

PSYC 604. (1 ½-6) Individual Study

May be offered in areas A through Z, (excluding I and O). The student must consult with his instructor about the area of his individual study prior to registration. A maximum of 6 units of PSYC 604 may be taken in any one Winter Session at the discretion of the student's Supervisory Committee.

PSYC 605. (0) Practicum in the Teaching of Psychology

PSYC 628. (1 ½-6) Advanced Clinical Psychology

May be taken in areas A, B, C, and/or D, but only by Ph.D. candidates.

PSYC 699. (3-15) Ph.D. Dissertation

SCIENCE

Course Chairmen, 1974-75: 1st term, Gerhart B. Friedmann, B.Sc., M.A. (*Madras*), Ph.D. (*Brit. Col.*), Associate Professor (Physics).

2nd term, Robert G. B. Reid, B.Sc., Ph.D. (*Glasgow*), Associate Professor (Biology).

SCIE 300. (3) The Natural Sciences I

This course is directed to the promotion of a better understanding, among non-scientists, of what the natural scientists attempt; and of what they achieve and fail to achieve. It will be concerned with concepts and attitudes rather than the techniques. No formal laboratories are associated with this course.

The course is intended primarily for students whose main field of studies is outside the natural sciences.

The format of the course is flexible, but the normal procedure will involve lectures and seminars so that students will come in contact with instructors from different science disciplines.

Prerequisite: This course is open to non-science students in their third and fourth years and to others with the permission of the Course Chairman.

Not open to students in B.Sc. programmes. (1-0-2; 1-0-2)

SCIE 400. (3) The Natural Sciences II

A sequel to Science 300, open to non-science students who have successfully completed Science 300 and to science students in their third or fourth year.

(Not offered 1974-75.) (1-0-2; 1-0-2)

DEPARTMENT OF SLAVONIC AND ORIENTAL STUDIES

Terence M. Rickwood, B.A., Ph.D. (*Liverpool*), Assistant Professor and Head of the Department.

Hsin-i Hsiao, B.A. (*Tunghai*), M.A., Ph.D. (*Harvard*), Assistant Professor (Chinese and Japanese).

Zelimir Juricic, B.A., M.A. (*Brit. Col.*), Ph.D. (*Nottingham*), Assistant Professor (Russian and Serbo-Croatian).

Nicholas V. Galichenko, B.A., M.A. (*Brit. Col.*), Lecturer (Russian).

GENERAL, MAJOR AND HONOURS PROGRAMMES

All students planning to take Honours in the Department of Slavonic and Oriental Studies must consult with the Department concerning their selection of other courses. For both Major and Honours students, Serbo-Croatian 300 is strongly recommended as an elective course (usually taken in the Third Year).

Student wishing to take Third or Fourth Year courses to meet requirements for a B.A. degree on the General, Major or Honours programme, must satisfy the Department that they have satisfactory standing in appropriate courses at the 200 level. Students with advanced credits from secondary schools, or Junior Colleges, or those who are competent in Russian will be placed at an appropriate level. Students wishing to challenge courses are referred to on page 23 of the Calendar.

Admission to Honours programme, which should be sought at the end of the Second Year, requires permission of the Department and interested students should consult the Department as early as possible in the first two years. Students will be admitted to Honours programme only if they have obtained at least a second class standing in the Second Year. They will be required to maintain at least a second class average in Russian courses taken in the Third and Fourth Years. An Honours programme in the Department of Slavonic and Oriental Studies normally requires a total of 66 units over a four-year period. Students specializing in Russian (including Honours) will find that they have sufficient electives to enable them to concentrate in a second field. A wise selection of courses is particularly important to those who may wish to enter graduate school, teaching, library work, government service, etc.

Students wishing to take Russian as a teaching area in the Faculty of Education's Secondary Curriculum should consult page 269 of the Calendar.

PROGRAMMES IN RUSSIAN

GENERAL		MAJOR		HONOURS	
<i>First Year</i>					
Russian 100	(3)	Russian 100	(3)	Russian 100	(3)
Other courses	(12)	Other Courses	(12)	Other courses	(12)
<i>Second Year</i>					
Russian 200	(3)	Russian	(3)	Russian 200	(3)
Russian 201	(3)	Russian 201	(3)	Russian 201	(3)
Other courses	(9)	Other courses	(9)	Other courses	(9)
<i>Third and Fourth Years</i>					
Russian 302	(3)	Russian 302	(3)	Russian 302	(3)
6 units of Russian courses numbered above 400	(6)	Russian 306	(3)	Russian 306	(3)
Other courses	(21)	Russian 406	(3)	Russian 406	(3)
		6 additional units of Russian courses numbered above 400	(6)	Russian 499	(3)
		Other courses	(15)	At least 9 units of Russian courses numbered above 400	(9)
				Other courses	(15)

COURSES

RUSS 100. (3) First Year Russian

This is a beginners' course concentrating on the basic grammar and vocabulary. The aim of the course is to lead the student quickly into reading, writing and oral work. The course is designed to meet the needs of students in a variety of fields.

Prerequisite: Open to all students.

Texts: Stilman and Harkins, *Introductory Russian Grammar*, 2nd edition (with laboratory manual).

Members of the Department.

(3-1; 3-1)

RUSS 200. (3) Second Year Russian

This course is the sequel to RUSS 100. In the first term the grammar is completed. The second term is devoted to the study of an original literary text in Russian as well as wide reading of modern Soviet periodicals.

Prerequisite: Completion of Russian 100, or the permission of the instructor.

Texts: Stilman and Harkins, *Introductory Russian Grammar*; S. Khavronina, *Russian As We Speak It*; L. Tolstoy, *Kavkazskii Plennik*.

Dr. Rickwood.

(4-0; 4-0)

RUSS 201 (formerly 300). (3) Nineteenth Century Russian Literature Part I: Romanticism and Naturalism

This course is intended as an introduction to Russian literature from 1800-1830. Short stories and poetry of the period will be read in the original Russian, and there will be lectures on the Romantic and Naturalist movements as well as material on individual writers. There will be one major paper per term.

Prerequisite: Completion of Russian 100. (Credit cannot be obtained for both Russian 201 and Russian 300).

Texts: Pushkin, *Pikovaya Dama*, *Tsygany*; Lermontov, *Demon*, *Taman'*; Gogol, *Shinel'*; *Penguin Book of Russian Verse*; *Desyat' russkikh poetov*.

Dr. Rickwood.

(3-0; 3-0)

RUSS 301. (1½) Aspects of Russian Culture

A survey of outstanding cultural trends against the background of Russia's past and present. Lectures will focus on traditional concepts and major developments in religion, philosophy, folklore, literature, art, architecture and music in an attempt to give students a cultural perspective for viewing the Russian way of life. Other areas of discussion will include an assessment of Western attitudes towards Russia. No knowledge of Russian is required.

Prerequisites: None, the course is open to all students.

Prescribed reading: James H. Billington, *The Icon and the Axe*; Paul Miliukov, *Outlines of Russian Culture: I — Religion and the Church in Russia, II — Literature in Russia, III — Architecture, Painting and Music in Russia*.

Members of the Department.

September-December only. (3-0)

RUSS 302. (3) Intermediate Composition and Stylistics

This course, conducted in Russian, stresses translation of selected passages, the regular composition of essays and conversational skill. A basic knowledge of Russian grammar is assumed. A broad selection of reading material is provided aiming at comprehension and provocative discussion.

Prerequisite: Completion of Russian 200.

Texts: Borras and Christian, *Russian Syntax*; Borras and Christian, *Russian Prose Composition*; P. Waddington, *Advanced Translation From Russian Prose*.

Mr. Galichenko.

(3-0; 3-0)

RUSS 306. (3) Nineteenth Century Russian Literature Part II: Realism

This course is the sequel to RUSS 201 and is a study of Russian literature from 1830 to the end of the nineteenth century. There will be lectures on the development of

Russian realist prose as well as material on the social and historical background of the time. There will be class assignments and one major paper per term.

Prerequisite: Completion of Russian 200.

Texts: Pushkin, *Eugenii Onegin*; Lermontov, *Geroi Nashego Vremeni*; Gogol, *Mertvye Dushi*; Turgenev, *Otsy i deti*; Tolstoy, *Sevastopol'skie Rasskazy*; Goncharov, *Oblomov*; Dostoevsky, *Zapiski iz Mertvogo Doma*; Chekhov, *Muzhiki*, *Chelovek v Fulyare*.

Dr. Rickwood.

(3-0; 3-0)

RUSS 390. (3) Russian for Scientists

This is a one-year, terminal course, intended for all students in the Humanities, Natural or Social Sciences, who wish to acquire rapidly a reading knowledge of modern Russian. During the first term the basic Russian grammar is covered while in the second term students read and translate articles from current Soviet scientific journals. Material is chosen corresponding to the students' own special areas of interest. Since thirty per cent of world scientific literature is now published in Russian, this course is of special interest to students contemplating advanced work in the Natural or Social Sciences, particularly since most Canadian and North American graduate schools require a reading knowledge of at least one foreign language.

Prerequisite: Open to all students. (Students who have passed Russian 100 cannot receive credit for this course).

Text: Dennis Ward, *Russian for Scientists*.

Dr. Rickwood.

(3-0; 3-0)

RUSS 401. (3) Soviet Literature (in translation)

The course examines selected major works and trends in Russian literature since the Revolution: Symbolism, Imagism and Futurism (Blok, Esenin and Mayakovsky), The Utopian and Anti-Utopian novel (Zamyatin, Olesha), Soviet Science Fiction (A. Tolstoy, Elfremov), The Revival of Romanticism and the Psychological novel (Babel, Sholokhov), Socialist Realism (Gladkov, N. Ostrovsky), The Symbolist novel and Post-Stalinist literature (Pasternak), The Cryptographical novel (Bulgakov, Solzhenitsyn). The focus is on early modern and contemporary authors with particular consideration of Solzhenitsyn. There will be lectures and discussion in English, one essay per term and brief oral presentations.

Prerequisites: Open to all students. Students taking this course towards a Major or Honours in Russian must have RUSS 200 as a prerequisite and must take a fourth lecture hour in Russian.

Texts: Zamyatin, *We*; Babel, *Red Cavalry*; Olesha, *Envy*; Sholokhov, *The Quiet Don*; Bulgakov, *The Master and Margarita*; Pasternak, *Doctor Zhivago*; Solzhenitsyn, *One Day in the Life of Ivan Denisovich*, *The Cancer Ward*, *First Circle*; Blake, *Half-Way to the Moon*; Brown, *Russian Literature Since the Revolution*.

Mr. Galichenko.

(3-0; 3-0)

RUSS 402. (3) History of Russian Drama (in translation)

The course deals with the evolution of Russian drama from its beginnings to the Soviet period. Special emphasis is given to the most important Russian dramatists: Fonvizin (*The Brigadier*), Griboedov (*Woe from Wit*), Pushkin (*Boris Godunov*), Gogol (*The Inspector General*), Ostrovsky (*The Storm*), L. Tolstoy (*The Power of Darkness*), Gorky (*The Lower Depths*), Chekhov (*The Cherry Orchard*), Mayakovsky (*The Bedbug*), Andreyev (*He Who Gets Slapped*), Bulgakov (*The Days of the Turbins*). This course is given in English and no previous knowledge of Russian drama is necessary.

Prerequisites: Open to all students. Students taking this course towards a Major or Honours in Russian must have RUSS 200 as a prerequisite and must take a fourth lecture hour in Russian.

Texts: Slonim Marc, *Russian Theatre From the Empire to the Soviets*; Reeve, F. D., *An Anthology of Russian Plays* (Vols. 1 and 2).

Dr. Juricic.

(3-0; 3-0)

RUSS 403. (3) Dostoevsky and Tolstoy (in translation)

This course undertakes a detailed study of two writers who have had an enormous impact on world literature. It is conceived primarily as a seminar course, and students will be expected to examine and discuss the major works of these authors. Some material will be presented on the literary background from which both these giants emerged. Essays will be assigned periodically. The final mark is based on term work and class participation.

Prerequisites: Open to all students. A knowledge of Russian or Russian literature is not essential. Students taking this course towards a Major or Honours in Russian must have RUSS 200 as a prerequisite and must take a fourth lecture hour in Russian.

Texts: Dostoevsky, *Crime and Punishment*, *The Idiot*, *The Devils*, *The Brothers Karamazov*; Tolstoy, *Childhood, Boyhood and Youth*, *War and Peace*, *Anna Karenina*, *Ressurrection*. (3-0; 3-0)

RUSS 404. (3) Eighteenth Century Russian Literature

This course is devoted to a study of the principal Russian prosaists, poets and dramatists of the eighteenth century. Students will examine the influence in Russia of Western literature as well as the emergence of a national Russian literature.

Prerequisites: Completion of Russian 302.

Texts: Selected works of Lomonosov, Sumarokov, Fonvizin, Derzhavin, Krylov, Knyazhnin, Radishchev, Karamzin. (3-0; 3-0)

RUSS 405. (3) Russian Poetry, 1815 to the Present

The course deals with Russian poetry from the early nineteenth century to the contemporary Soviet period. Special emphasis is placed on the major Romantic works of Pushkin and Lermontov, on the nature lyrics of Tyutchev and Fet, and on the Realist verse of Nekrasov. The Symbolist, Acmeist and Futurist movements in poetry will be examined in detail, as well as the development of verse under Socialist Realism. In conclusion, some trends in recent Soviet poetry will be considered. Lectures and discussions will be conducted in Russian. One essay per term and several short assignments.

Prerequisite: Completion of Russian 302.

Texts: *Russkie Poety XIX Veka*; *Russkaya Literatura XX Veka*; *Penguin Book of Russian Verse*.

Dr. Juricic. (3-0; 3-0)

RUSS 406. (3) Advanced Composition and Stylistics

The course is conducted entirely in Russian and emphasizes written composition, stylistic analysis and conversational fluency. Formal reading material includes works by Chekhov, Bunin, Kazakov and others. Taking into account the student's discipline and area of interest, appropriate articles from the contemporary press are supplied. Exercises in syntax and stylistics are also provided. The course involves daily reading assignments and weekly written work. No language laboratory is required, but tapes are used in class. One full-length essay in Russian is required.

Prerequisite: Completion of Russian 302.

Texts: Borras and Christian, *Russian Syntax and Russian Prose Composition*.

Mr. Galichenko. (3-0; 3-0)

RUSS 430. (3) Directed Reading

This Directed Reading Course is intended to acquaint students with Old and Medieval Russian literature. Emphasis, which may change from year to year, will include Kievan and Muscovite literature. Required reading will be drawn from the following texts: *Povest' Vremennykh Let*; *Pouchenie Vladimira Monomakha*; *Skazanie o Borise i Glebe*; *Slovo o Polku Igoreve*; *Zadonschchina*; *Puteshestvie Ajanasiya Nikitina*; *Perepiska Knyazya Kurbskogo s Ivanom Groznym*; *Domostroy*; *Povest' o Frole Skobeeve*; *Povest' o Karpe Sutulove*; *Sochineniya Protopopa Avvakuma*.

Prerequisite: Completion of Russian 302 and the permission of the Department.

(3-0; 3-0)

RUSS 499. (3) Honours Essay

SERBO-CROATIAN

SERB 300. (3) First Year Serbo-Croatian

This course is designed for students of Russian wishing to acquire basic reading and translating competence in a *second Slavic language* and reasonable familiarity with its literature. Knowledge of a *second Slavic language* is imperative for candidates in Russian Language and Literature seeking admission to a higher degree in Slavic studies. Through carefully selected literary texts and scholarly materials other students will broaden their understanding and appreciation of Yugoslavia's rich culture, history, literature, language and peoples. Tapes are provided of some of the texts handled in class. The two best students will be awarded the Yugoslav Government scholarships for Summer Study in Yugoslavia (Zagreb and Dubrovnik).

Prerequisite: Completion of 200 level course in a foreign language or its equivalent, or the permission of the instructor.

Texts: Babic, Slavna, *Serbo-Croatian Reading Passages*; Partridge, Monica, *Serbo-Croatian: Practical Grammar and Reader*.

Dr. Juricic.

(3-0; 3-0)

JAPANESE

JAPA 100. (3) First Year Japanese

First introductory course in the Japanese language. Japanese letters will be introduced from the beginning.

Text: Japanese Language Promotion Centre, *Intensive Course in Japanese, Elementary*.
(4-1; 4-1)

JAPA 200. (3) Second Year Japanese

Reading and writing of Japanese script (Kana and Kanji), as well as conversational practice.

Prerequisite: Completion of Japanese 100 or its equivalent.

Texts: Niwa & Matsuda, *Basic Japanese for College Students*; Sakade, Florence, *A Guide to Reading & Writing Japanese*.
(4-1; 4-1)

CHINESE

CHIN 100. (3) First Year Chinese

First introductory course in Mandarin (romanized approach). Chinese characters will be introduced in the second term.

Texts: DeFrancis, *Beginning Chinese*; DeFrancis, *Character Text for Beginning Chinese*.

Dr. Hsiao.

(4-1; 4-1)

CHIN 200. (3) Second Year Chinese

Reading of traditional and simplified Chinese characters, as well as conversational practice.

Prerequisite: Completion of Chinese 100 or its equivalent.

Text: DeFrancis, *Character Text for Beginning Chinese*.

Dr. Hsiao.

(4-1; 4-1)

CHIN 301. (1½) Aspects of Chinese Culture

A survey of the development of the outstanding aspects of Han Chinese intellectual tradition from earliest to modern times, with special reference to national, social,

political, artistic, religious, and thought patterns, and to problems of modern change. Such topics as the conceptualizations of the natural world, the role and nature of man, the ideal order of society, the ideal world order, the role of art and literature, and the characteristics of religion will be analyzed in depth. No knowledge of Chinese required. Prerequisites: None, the course is open to all students.

Prescribed reading: Wm. Theodore de Bary, et al, *Sources of Chinese Tradition*.

Dr. Hsiao.

January-April only. (3-0)

SOCIAL WORK

SW 400. (3) Social Work

Introduction to the philosophy, concepts, and practice of social work in modern society.

This course is a required part of the B.A. with Major in Social Welfare but is open as an elective to students in Arts and Science. (3-0; 3-0)

DEPARTMENT OF SOCIOLOGY

Donald W. Ball, B.A. (*Calif., Santa Barbara*), M.S. (*Ore.*), M.A., Ph.D. (*Calif., Los Angeles*), Associate Professor and Chairman of the Department.

M. Elaine Cumming, B.A., M.A. (*Sask.*), Ph.D. (*Radcliffe-Harvard*), Professor.

Robert B. Hagedorn, B.A. (*San Fran. St.*), M.A. (*Wash.*), Ph.D. (*Texas*), Associate Professor.

T. Rennie Warburton, B.A. (*Leeds*), Ph.D. (*London*), Associate Professor.

Roy E. L. Watson, B.A., M.A., Ph.D. (*Tor.*), Associate Professor.

R. Alan Hedley, B.A., M.A. (*Brit. Col.*), Ph.D. (*Ore.*), Assistant Professor.

Daniel J. Koenig, A.B., (*Notre Dame*), M.Sc. (*Florida St.*), Ph.D. (*Illinois*), Assistant Professor.

Leonard M. Thornton, B.A. (*Edinboro State*), M.A., Ph.D. (*Illinois*), Assistant Professor.

S. Charles Lazer, A.B. (*Princeton*), M.A. (*Mich. St.*), Lecturer.

UNDERGRADUATE PROGRAMMES

NOTE: Three undergraduate programmes are offered in Sociology. The General programme is designed to produce flexibility, at the same time providing a general background for students entering related fields. The Major programme requires students to specialize in their last two years, initiating them into the theories and methods of the discipline. The Honours programme is recommended for students planning graduate work in Sociology. Students taking a Majors, or Honours programme are urged to consult the Department early in their academic careers.

Sociology 100 is a prerequisite for the General, Major or Honours programmes. First Year students who plan to undertake any of these programmes are therefore required to enrol in the introductory course. This requirement may be satisfied by course challenge or by permission of the Department. In addition, Sociology 209 is strongly recommended for all students contemplating advanced work in Sociology.

General — *First Year*: Sociology 100 as above; *Second Year*: Sociology 209 and/or 200; *Third and Fourth Years*: nine additional units of Sociology chosen from courses numbered 300 and above.

Major — *First Year*: Sociology 100 as above; *Second Year*: Sociology 209 and/or 200; *Third and Fourth Years*: a total of 15 units consisting of 371, 400, 430 and seven and a half additional units from courses numbered 300 and above.

Honours — *First Year*: Sociology 100 as above; *Second Year*: Sociology 209 and/or 200. Students who have achieved at least high Second Class standing in Sociology 200 and Sociology 209 (if both have been taken) or in either of these if only one has been taken, may be admitted to the Third Year in the Honours Programme with the permission of the Department; *Third and Fourth Years*: Students will take at least 34 units of which 22 above 300 level must be in Sociology and include Sociology 371, 372, 399, 400, 430 and 499. Students may be permitted to take some 300 level courses in their second year.

COURSES

Unless indicated otherwise, courses begin in September and end in April.

Prerequisite for Third and Fourth Year courses: Courses numbered 300 and above may be chosen as electives if one of the following conditions is satisfied:

- (a) Completion of Sociology 100
- (b) The student has at least Third Year standing and the permission of the course Instructor.

NOTE: Satisfaction of the Sociology 100 requirement is necessary for the students in the General programme as well as for those intending to Major and Honour in Sociology. Sociology 209 is strongly recommended for all students contemplating advanced study in Sociology.

SOCI 100 (formerly 200). (3) Introduction to Sociology

A general introduction to the perspectives and methods of sociology, including a consideration of basic concepts and problems in the analysis of groups and societies. (3-0; 3-0)

SOCI 200. (3) Canadian Society

The structure and development of modern Canadian Society. Topics include: ethnicity, immigration and population trends; social stratification; power, and educational opportunity; problems of national identity and immigration. Material is taken from research and scholarship in sociology and other social sciences. Prerequisite: At least Second Year standing or completion of Sociology 100. (3-0; 3-0)

SOCI 209. (3) Development of Modern Sociology

The sociological perspective as exemplified by theoretical and methodological innovations. Emphasis will be on the development of sociology from the late nineteenth century to the present. Students will participate in research projects in order to gain familiarity with sociological research techniques and strategies. Prerequisite: Sociology 100. (3-0; 3-0)

SOCI 301. (3) Deviance and Social Control

Criminological conceptualizations and statistics are critically analyzed. Various types of social deviance are analyzed and used as case studies to outline the evolution of social control from religion through law to medicine and science. (3-0; 3-0)

**SOCI 304 (formerly 305). (3) Interaction and Socialization
(formerly Socialization and Interaction)**

Models of interaction and socialization; transmission and learning of sociocultural categories and roles; self, identity and society; psychological sociology and social psychology; naturalistic and quantitative approaches to the study of interaction; ethnomethodology and studies in everyday life. (3-0; 3-0)

SOCI 305. (3) Sociology of Families and Households (formerly Family and Social Development)

Consideration of similarities and differences regarding families and households as an alternative unit of analysis. In the first term the focus will be upon families and households in comparative perspective, and their relationship to the larger society. In the second term the internal organization of families and households and interpersonal processes within them will be examined. Sex roles. The socialization of the young. Alternatives to the conventional family. (3-0; 3-0)

SOCI 310 (Anthropology 310). (3) Sociology of Religion

The analysis of religion as a social institution. Topics studied include: problems of definition and methodological approaches; theories about the origin and evolution of religion; anthropological field studies of religion; the validity and ramification of Weber's thesis on Protestantism and modern Western civilization, including his studies on the world religions; types of religious organization, e.g. sects, churches and denominations; messianic and nativistic movements; religion in contemporary Western societies. (3-0; 3-0)

SOCI 315. (3) Class, Status, and Power (formerly Social Stratification)

Social stratification. Differentiation and hierarchy in social systems. (3-0; 3-0)

SOCI 319 (formerly one-half of Sociology 320). (1 ½) Industrial Sociology

Man-work linkages; labour force trends; organizational, technological, and work group determinants of industrial behaviour.

Credit cannot be obtained for Soci. 319 (1½ units) and Soci. 320 (3 units).

September-December only. (3-0)

SOCI 321 (formerly 320). (1 ½) Sociology of Occupations

Attitudes to work, similarities and differences between occupations; the nature of professions; the contrast between jobs and careers.

Credit cannot be obtained for Soci. 320 (3 units) and Soci. 321 (1½ units).

January-April only. (3-0)

SOCI 325. (3) Small Groups

An introduction to the structural principles of small groups. Discussions of the problems of order in terms of group size, goals, and role allocations. Consideration of both experimental and natural groups. Introduction to the techniques of microsociological research. (2-2; 2-2)

SOCI 335 (Anthropology 335). (3) Minority and Ethnic Group Relations

Minority and ethnic groups within complex societies with special reference to Canada. (3-0; 3-0)

SOCI 340. (1 ½) Demography

Study of the growth, distribution, and movement of human populations with special emphasis on the social causes and consequences. September-December only. (3-0)

SOCI 341. (1 ½) Human Ecology

Study of the form and development of human communities as adaptations to continuously changing conditions of life. January-April only. (3-0)

SOCI 345. (1 ½ formerly 3 units) Sociology of Health and Medicine

Seminar in the social implications of illness, the health professions, systems of health care, epidemiology.

Credit cannot be obtained for Soci. 345 (3 units) and Soci 345 (1½ units).

September-December only. (3-0)

SOCI 350. (3) Social Welfare as a Social Institution

The historical developments of social welfare as a social institution; the organization of welfare services and the functions they perform in modern society; the relation of social welfare to other institutions. (3-0; 3-0)

SOCI 360. (1 ½) Sociology of Sport

Conceptual and empirical analyses of the social nature of sport and games. The relation of these phenomena to the sociocultural environment. Analysis of selected sports and games as social systems. September-December only. (3-0)

SOCI 365. (1 ½) Sociology of Leisure

Conceptual problems in the identification of leisure. The production, consumption and distribution of leisure. The emergence of leisure-defined lifestyles. The study of selected leisure activities.

Prerequisite: Sociology 100 or permission of instructor. January-April only. (3-0)

SOCI 371 (formerly 370). (1 ½) Statistics and Social Research I

The logic and interpretation of statistical concepts and techniques in the Social Sciences. Basic probability, distributions, sampling, parametric and non-parametric statistics, tests of hypotheses.

Credit cannot be obtained for Soci. 370 (3 units) and Soci. 371 (1½ units).

September-December only. (3-0)

SOCI 372 (formerly 370). (1½). Statistics and Social Research II

Techniques of multivariate analysis, including correlation and regression.

Credit cannot be obtained for Soci. 370 (3 units) and Soci. 372 (1½ units).

Prerequisite: Sociology 371, or consent of Instructor. January-April only. (3-0)

SOCI 380. (1½) Sociology of the Life Cycle

A general discussion of the concept of generation. Selected demographic aspects of cultural generations since 1900. The role structure and institutional connections typical of different stages in the individual life cycle. January-April only. (3-0)

SOCI 390. (1½) Selected Problems in Sociology

Presentation of current research interests of various faculty members.

Students interested in this course should inquire at Registration when the course is to be offered and what the substantive presentation will involve.

NOTE: Students may enrol in this course in different areas for a maximum of 3 units. (3-0)

SOCI 399. (1) Honours Seminar

For students in the Third Year of the Honours Programme. (1-0; 1-0)

SOCI 400. (3) Sociological Theory

A consideration of the nature of theory and explanation, with special emphasis on major sociological theories and theorists. The relation of earlier sociological thought to contemporary theory. Open only to students registered in the Fourth Year. (3-0; 3-0)

SOCI 415 (formerly 330). (3) Political Sociology

A discussion of conflict and cooption, the distribution of power, voting behaviour, extremist political behaviour, international stratification and political change.

(3-0; 3-0)

SOCI 418 (Anthropology 418). (1½) Social Change

General theory of cultural evolution and social change. The impact of complex cultures upon the native peoples of Africa, Asia, the Pacific and the Americas.

September-December only. (3-0)

SOCI 419 (Anthropology 419). (1½) Modernization and Development

Process of modernization. Industrialization and urbanization in the contemporary world. January-April only. (3-0)

SOCI 420. (3) Formal Organizations

A presentation of the major theoretical and research developments in the study of organizations. The course will revolve around five main topics: organizational objectives, technology and organizational structure, social relations in organizations, inter-organizational relationships, and comparative organization research.

Prerequisites: Fourth year standing or permission of the Instructor. (3-0; 3-0)

SOCI 430. (3) Introduction to Social Research

Introduction to important concepts and strategies of social research to enable students to evaluate critically the results of published research and begin to carry out research of their own. Current methodological issues, basic steps involved in doing research, research techniques, and theory construction. (3-0; 3-0)

SOCI 490. (1-3) Directed Studies

This course may be substituted for an elective course in Sociology in the Fourth Year of the Honours Programme with the permission of the Department.

SOCI 499. (3) Honours Seminar and Graduating Essay

GRADUATE COURSES

- SOCI 500. (1 ½ or 3) Problems in Sociological Theory**
- SOCI 510. (1 ½ or 3) Quantitative Methods**
- SOCI 511. (1 ½ or 3) Research Design**
- SOCI 530. (1 ½ or 3) Studies in Social Structure**
- SOCI 535. (1 ½ or 3) Studies in Social Processes**
- SOCI 590. (1 ½ or 3 or 6) Directed Studies**
- SOCI 599. (3 or 6) Thesis**

CHILD CARE PROGRAMME

BACHELOR OF ARTS, WITH AN EMPHASIS IN CHILD CARE

The Bachelor of Arts with emphasis in Child Care requires an academic programme integrated with practical experience in selected centres employing Child Care Workers. Students have considerable freedom in choosing courses towards the degree while satisfying the basic programme requirements. The practica, normally taken during the summer at Child Care Centres throughout the Province, do not carry credit towards the degree, but satisfactory performance is recognized by a Statement of Achievement at each level. On successful completion of the Programme, a Child Care Diploma will normally be granted in addition to the B.A. degree, based on both academic achievement and satisfactory performance in the practica.

Several areas of specialization are offered, as follows: the study and treatment of children who are (1) mentally retarded, (2) emotionally disturbed, (3) neurologically impaired, or suffering from (4) child psychosis, or (5) learning disorders; the care of children (6) in residences of the Department of Indian Affairs or (7) in family care units such as foster homes and day care centres and (8) Pre-School Day Care. Students must select a concentration of courses from at least two of these areas during their senior years.

Interested students should consult the Director of the Child Care Programme — an interview will normally be required. Students are selected on the basis of personal suitability as well as academic achievement. Enrolment may be limited.

NOTE: Formal acceptance by the University is required:

New students: Submit an Application for Admission to the Director of Admissions (due date is August 1)

Returning students: Submit an Application for Re-registration to the Registrar (due date is June 30).

The following academic programme is designed to provide a basic liberal arts education together with specialized practical training in Child Care. There is considerable flexibility for electives.

BASIC PROGRAMME

First and Second Years: English 110 or 120;
Psychology 100 and 220,
Psychology 335 or Education 305;
Sociology 100; and 15 units chosen in consultation with
the Director.

First and Second Year electives may be chosen from the following courses offered by the Faculties of Arts and Science, Education, and Fine Arts.

Arts and Science	Anthropology 100 or 200 level course Biology 150, or any 200 level course English — a 200 level course Linguistics 100 or 250 Mathematics 151 and 102 Philosophy — a 100 or 200 level course
Education	Art Education 100 Music Education — a 100 or 200 level course Physical Education — a 100 or 200 level course
Fine Arts	Music 100 or 200 Theatre 100 or 200 level course Visual Arts 100 or 200 level course

Third and Fourth Years:

(1) Social Work 400; Similar in Child Care Problems (Child Care 460).

(2) 12 or more units chosen so as to include the courses specified for at least two of the following areas of specialization:*

- | | | |
|---------|---|----------|
| (i) | Study and treatment of Mentally Retarded Children. | |
| | Required: Education 407 (The Exceptional Child) | 1½ units |
| | Education 409C (The Mentally Retarded) | 1½ units |
| | Psychology 450 (Mental Deficiency) | 3 units |
| (ii) | Study and treatment of Emotionally Disturbed Children. | |
| | Required: Education 409E (The Emotionally Disturbed) | 1½ units |
| | Psychology 415 (Human Neuropsychology) | 3 units |
| | Psychology 430 (Abnormal Psychology) | 3 units |
| * (iii) | Study and treatment of Neurologically Impaired Children. | |
| | Required: Education 415 (Diagnosis of Learning Difficulties) | 1½ units |
| | Education 416 (Remediation of Learning Difficulties) | 1½ units |
| | Psychology 415 (Human Neuropsychology) | 3 units |
| (iv) | Study and treatment of Psychotic Children. | |
| | Required: Psychology 230 (Introduction to Psychobiology) or | |
| | Psychology 415 (Human Neuropsychology) | 3 units |
| | Psychology 430 (Abnormal Psychology) | 3 units |
| * (v) | Study and treatment of Children with Learning Disorders. | |
| | Required: Education 415 (Diagnosis of Learning Difficulties) | 1½ units |
| | Education 416 (Remediation of Learning Difficulties) | 1½ units |
| | Psychology 415 (Human Neuropsychology) | 3 units |
| (vi) | Care of Indian Children in Residence. | |
| | The specific programme is to be developed by the Director in consultation with Representatives of Status and Non-Status Indians, the Department of Indian Affairs and the Departments of Anthropology and Sociology, to include six units of course work presently offered in the University. | |
| (vii) | Family Care. | |
| | Required: Education 316/317 (Verbal and Nonverbal Communication) | |
| | or Education 417 (Helping Relationships) | 3 units |
| | Sociology 305 (Family and Social Development) | 3 units |
| (viii) | Pre-School Day Care | |
| | Required: Sociology 304 (Interaction and Socialization) | |
| | or Sociology 305 (Family and Social Development) | 3 units |
| | and Education 440 (Early Childhood Education) | 1½ units |
| | and Education 441 (Research and Programme Development in Pre-School Education) | 1½ units |

(3) 12 units (or the balance required to total 30 units) of electives chosen in consultation with the Director.

*Areas (iii) and (v) require the same basic courses and students choosing both of these areas of specialization would require an additional 6 units of course work selected in consultation with the Director.

PRACTICUM

Practical experience is an essential part of the training in Child Care, and normally involves a period of full-time employment during each year of the Programme at one or more of the approved Child Care Centres. The academic courses carry credit towards a Bachelor's degree, while the practica count towards a Diploma. It is possible for a student to obtain the B.A. and fail to gain the Diploma, but not the reverse.

PROFESSIONAL CLASSIFICATION

1. Child Care Worker, Grade 1.

- (a) Training: The completion of the University first year or its equivalent, plus a minimum of 4 months of successful full-time experience in an agency or agencies on the University's list of approved Child Care Centres.

- (b) Recognition: On the student's successful completion of the above training, a Statement of Achievement as Child Care Worker, Grade 1, will normally be issued by the Registrar on the recommendation of the Director.
2. Child Care Worker, Grade 2.
- (a) Training: The completion of the first and second years of University training or its equivalent, plus a minimum of 8 months of successful full-time experience in agencies on the University's list of approved Child Care Centres.
- (b) Recognition: On the student's successful completion of the above training, a Statement of Achievement as Child Care Worker, Grade 2, will normally be issued by the Registrar on the recommendation of the Director.
- Mature students with a Bachelor's degree can obtain Grade 2 status by completing at least one course in Child Development (Psychology 335 or Education 305), Social Work 400 and Child Care 460 (Seminar in Child Care Problems), and at least 8 months of successful practical experience in recognized agencies.
3. Child Care Worker, Grade 3.
- (a) Training: The completion of the four-year Bachelor's programme in Child Care plus a minimum of 16 months of successful full-time practical experience in agencies on the University's list of approved Child Care Centres. The practica should include work in at least 4 agencies selected to provide a variety of professional experience.
- (b) Diploma: On the student's completion of the above training, the Director and an examining Committee will evaluate the student's academic achievement and all reports from agencies where he has interned. When the Director is satisfied that all requirements in Child Care have been met, he will recommend that the Senate grant the Diploma in Child Care.
- Mature students with a B.A. and Grade 2 status can obtain the Diploma in Child Care after an additional 8 months of successful practical experience and completion of such courses as may be recommended by the Director.

CREDIT FOR PREVIOUS EXPERIENCE

A student entering the programme with previous practical experience as a child care worker may be given practicum credit for 1/3 of this time, up to a maximum of 9 months for a fourth year student, 8 months for a third year student, 7 months for a second year student and 6 months for a first year student.

COURSE

C C 460. (3) Seminar in Child Care

A study of current theories and practices in Child Care. Topics will include childhood personality development, both normal and pathological, possible therapeutic treatment methods, in-service training, management problems, budgeting, space and long-term planning. A graduation essay will be required. Open to students in their fourth year of the Child Care Training Programme. (3-0; 3-0)

FACULTY OF EDUCATION

TABLE OF CONTENTS

	Page
Faculty	246
Programmes and Degrees offered by the Faculty of Education	248
Admission	248
Minimum Requirements for Acceptance into Professional Years	249
General Information	252
Academic Advice	252
Standing and Credit	252
Credit for Studies Undertaken at Other Institutions	253
School Experience, Student Teaching and Seminars	253
Teacher Certification	253
Teacher Qualification Service	255
A. The Bachelor of Education Degree	256
A1. Elementary Curriculum	256
Course Requirements	256
Programme by Years	257
Teaching Areas (Elementary)	258
Art Education	258
Creative Drama	258
Early Childhood Education	259
Language Arts	259
Library Education	259
Mathematics Education	259
Mathematics/Science	260
Music Education	260
Outdoor Education	260
Physical Education	260
Remedial	261
Science	261
Social Studies	262
Special Classes	262
Academic Subject Areas	262
A2. Secondary Curriculum	262
Course Requirements	262
Programme by Years	263
Programme for those who have completed Professional Training	263
Teaching Areas (Secondary)	264
Art	264
Biological Sciences	264
Chemistry	264
English	265
French	265
General Science	265

TABLE OF CONTENTS (Continued)

Geography	265
German	266
Guidance	266
History	266
History/History in Art	266
Industrial Education	267
Latin	267
Mathematics	267
Music	267
Physical Education	268
Physics	268
Russian	269
Social Studies	269
Spanish	269
Theatre	269
B. The Bachelor of Education (Elementary) Degree	270
C. Diploma Programmes for Graduates	270
C1. Elementary Curriculum	270
C2. Secondary Curriculum	270
E. Post-Bachelor of Education (Elementary) Degree Programme	270
F. Graduate Studies in Education	271
G. Diploma Programme in Native Indian Languages (non-certificate)	251, 271
Courses in the Faculty of Education	272
Undergraduate Courses	272
Education	272
Art Education	280
Library Education	281
Music Education	281
Physical Education	282
Graduate Courses	285

FACULTY OF EDUCATION

- K. George Pedersen, B.A. (*Brit. Col.*), M.A. (*Wash.*), Ph.D. (*Chicago*), Associate Professor and Dean of the Faculty.
- J. Douglas Ayers, B.A., B.Ed. (*Brit. Col.*), Ph.D. (*Tor.*), Professor. (On study leave 1974-75.)
- David J. Chabassol, B.A., B.Ed. (*Acadia*), M.Ed. (*Tor.*), Ph.D. (*Alta.*), Professor.
- Franklin E. Churchley, A.R.C.T., L.R.C.T. (*Royal Cons. Mus.*), B.Mus. (*Tor.*), M.A., Ed.D. (*Columbia*), Professor.
- John A. Downing, B.A., Ph.D. (*London*), Professor.
- Geoffrey P. Mason, B.A., M.A. (*Brit. Col.*), Ph.D. (*Wash. St.*), Professor.
- Richard H. J. Monk, B.A. (*Brit. Col.*), M.Ed., Ph.D. (*Wash.*), Professor.
- Robert D. Armstrong, B.Ed., M.A., M.Ed. (*Alta.*), Ed.D. (*Calif.*), Associate Professor.
- Martin L. Collis, Dip. P.E. (*Loughborough*), M.S. (*Idaho*), Ph.D. (*Stanford*) Associate Professor.
- William K. Cross, B.Ed. (*Brit. Col.*), M.A. (*Wash. St.*), Associate Professor, and Coordinator of Education Liaison.
- Donald R. Daus, B.S. (*Winona St. Coll.*), M.S., Ph.D. (*Ore. St.*), Associate Professor.
- Jean D. Dey, B.Ed., M.Ed. (*Alta.*), Ed.D. (*Calif., Berkeley*), Associate Professor. (On study leave 1974-75.)
- John D. Eckerson, B.S., M.A. (*Wash.*), Ph.D. (*Ore.*), Associate Professor.
- Peter O. Evanechko, B.Ed., M.Ed., Ph.D. (*Alta.*), Associate Professor.
- Charles G. Galloway, B.A. (*Cent. Wash. Coll. of Ed.*), M.A. (*Harvard*), Ph.D. (*Calif.*), Associate Professor.
- Cary F. Goulson, M.A. (*Brit. Col.*), Ed.D. (*Tor.*), Associate Professor.
- John F. Hall, A.B., A.M. (*Stanford*), M.S., Ph.D. (*Ore. St.*), Associate Professor.
- Christopher E. Hodgkinson, B.Sc.Econ. (*London*), M.Ed., Ed.D. (*Brit. Col.*), Associate Professor.
- Edgar B. Horne, B.A.Sc., B.A., M.A. (*Brit. Col.*), Ph.D. (*Illinois*), Associate Professor. (On study leave 1974-75.)
- A. Richard King, B.A. (*West Wash. Coll. of Ed.*), Ph.D. (*Stanford*), Associate Professor.
- Donald W. Knowles, B.A., B.Ed., M.Ed., Ph.D. (*Alta.*), Associate Professor. (On study leave 1974-75.)
- Arthur Kratzmann, B.Ed. (*Sask.*), M.Ed. (*Alta.*), Ph.D. (*Chicago*), Associate Professor.
- Fred L. Martens, B.A., B.Ed. (*Brit. Col.*), M.S. in P.E. (*Wash.*), Ph.D. (*Ore.*), Associate Professor.
- Norma I. Mickelson, B.Ed. (*Brit. Col. - Vic. Coll.*), M.A. (*U. of Vic.*), Ph.D. (*Wash.*), Associate Professor and Associate Dean of the Faculty.
- Walter Muir, B.Ed., M.Ed., Ph.D. (*Alta.*), Associate Professor and Assistant Dean of the Faculty.
- Lloyd O. Ollila, B.S., M.A., Ph.D. (*Minn.*), Associate Professor.
- Edward E. Owen, B.A., M.A. (*Auckland*), Ph.D. (*Edin.*), Associate Professor.
- R. Vance Peavy, B.A., M.A. (*Colo. St. Coll.*), D.Ed. (*Ore.*), Associate Professor.
- Roger A. Ruth, B.S., M.S. (*Kansas St. Teacher's Coll.*), Ph.D. (*Berkeley*), Associate Professor. (On study leave 1974-75.)
- Marion A. Small, B.Ed. (*Brit. Col.*), M.Ed. (*West. Wash. Coll. of Ed.*), Associate Professor. (On study leave 1974-75.)

- Hugh Taylor, B.A. (*Brit. Col.*), M.Ed. (*Ore. St.*), Ed.D. (*Wash. St.*), Associate Professor.
- Henry G. Timko, B.S. (*Kutztown St. Coll.*), M.A., Ed.D. (*Ill.*), Associate Professor.
- Ronald E. Tinney, B.A. (*Brit. Col.*), Ph.D. (*Minn.*), Associate Professor.
- Robert D. Bell, B.A. (P.E.) (*Sask.*), M.A., Ph.D. (*Ore.*), Assistant Professor.
- Ian L. Bradley, B.Ed. (*Brit. Col.*), M.Ed. (*West. Wash. St. Coll.*), Ed.D. (*Brit. Col.*), Assistant Professor.
- Irvin K. Burbank, B.Ed. (*Alta.*), M.S., Ed.D. (*Utah St.*), Assistant Professor.
- Gerald A. Carr, Dip. P.E. (*Loughborough*), B.A., M.S. (*Calif., Los Angeles*), Ph.D. (*Stellenbosch*), Assistant Professor.
- Rey A. Carr, B.A. (*Calif., Los Angeles*), M.A. (*San Francisco St.*), Ph.D. (*Calif., Berkeley*), Assistant Professor.
- John C. Cawood, B.Ed., M.Ed. (*Brit. Col.*), Assistant Professor.
- David Docherty, B.S., M.S., Ph.D. (*Ore.*), Assistant Professor.
- Maureen C. Hibberson, B.P.E. (*Brit. Col.*), M.A. (*Ore.*), Assistant Professor.
- Geoffrey S. Hodder, B.Ed., M.A. (*U. of Vic.*), Assistant Professor.
- Terry D. Johnson, B.Ed., M.A., Ed.D. (*Brit. Col.*), Assistant Professor.
- Werner W. Liedtke, B.Ed., M.Ed., Ph.D. (*Alta.*), Assistant Professor.
- Margaret McHugh, B.A. (*Utah*), M.A.Ed. (*Idaho St.*), Ph.D. (*Ore.*), Assistant Professor.
- R. Anne McLaughlin, B.Com. (*Brit. Col.*), M.S. (*Ore.*), Assistant Professor and Director of Advising Centre.
- Margaret M. Moody, M.Sc. (*Ore.*), Assistant Professor.
- Leslie H. Peake, Dip. in P.E. (*St. Paul's Coll., Bristol*), M.Sc. (*Springfield Coll.*), Assistant Professor. (On study leave 1974-75.)
- Geoffrey D. Potter, B.A., M.A. (*Sir George Williams*), Assistant Professor. (Leave of absence 1974-75.)
- John J. Sheppy, B.A., M.Ed. (*Brit. Col.*), Assistant Professor.
- Peter Shostak, B.Ed., M.Ed. (*Alta.*), Assistant Professor.
- Robert Swailes, B.S.A. (*Man.*), M.Ed. (*Brit. Col.*), Assistant Professor.
- Beverly A. Timmons, B.A. (*Chico St. Coll.*), M.S., D.Ed. (*Ore.*), Assistant Professor.
- James H. Vance, B.Sc. (*Alta.*), M.A. (*Wash.*), Ph.D. (*Alta.*), Assistant Professor.
- Margery M. Vaughan, L.R.S.M. (*Royal School of Music*), Mus.G. (*West. Ont.*), B.Mus. (*Tor.*), M.Litt. (*Durham*), Ed.D. (*Georgia*), Assistant Professor.
- Carl R. Viesti, B.A. (*Catholic U. of America*), M.S. (*Bridgeport*), Ph.D. (*Ore.*), Assistant Professor.
- Richard L. Williams, B.S. (*St. Cloud St. Coll.*), M.S. (*Cornell*), Assistant Professor.
- E. Ann Shafer, A.B. (*Pacific Union Coll.*), M.A. (*San Fran. Coll.*), Lecturer.
- Larry D. Yore, B.S., M.A., Ph.D. (*Minn.*), Lecturer.
- Leandre Lacroix, M.C., B.A., B.Phil. (*Laval*), Administrative Assistant.
- Diana F. McBratney, C.D., Advising Officer.

PROGRAMMES AND DEGREES OFFERED BY THE FACULTY OF EDUCATION

The Faculty of Education offers programmes leading to degrees in Education awarded by the University and to teaching certificates issued by the Provincial Department of Education. The following degrees and programmes are offered:

- A. THE BACHELOR OF EDUCATION DEGREE:
 - A1. ELEMENTARY CURRICULUM
 - a. Regular Programme
 - b. Transitional Programme
 - A2. SECONDARY CURRICULUM
- B. THE BACHELOR OF EDUCATION (ELEMENTARY) DEGREE
- C. DIPLOMA PROGRAMMES FOR GRADUATES:
 - C1. ELEMENTARY CURRICULUM
 - C2. SECONDARY CURRICULUM
- D. INTERNSHIP PROGRAMMES:
 - D1. ELEMENTARY CURRICULUM
(Not offered 1974-75.)
 - D2. SECONDARY CURRICULUM
(Not offered 1974-75.)
- E. POST-BACHELOR OF EDUCATION (ELEMENTARY) DEGREE PROGRAMME
- F. GRADUATE STUDIES IN EDUCATION
- G. DIPLOMA PROGRAMME IN NATIVE INDIAN LANGUAGES (NON-CERTIFICATE)

ADMISSION TO THE FACULTY OF EDUCATION

For admission to the Faculty of Education applicants must meet general University requirements specified on pages 12-18, and in addition where applicable, requirements specified under the following section entitled *Minimum Requirements for Acceptance into Professional Years*. Not all fully qualified applicants will be accepted if the number of applicants exceeds the number provided for in each year or programme of studies. The University reserves the right to refuse admission to this Faculty on the grounds of physical handicaps or for other reasons, including unsatisfactory academic records.

Admission to the Faculty of Education may also be denied to those who are unable to demonstrate good use of English. Applicants whose native tongue is not English may be required to pass oral and written tests in English before being admitted to the Faculty.

Students who are entering the University for the first time are required to submit a Course Planning Form to the Education Advising Centre prior to registration. This form will be forwarded with registration materials.

For purposes of admission to the Faculty of Education, Grade Point Averages are normally based on work done in winter sessions in which 15 units have been attempted.

Applicants for admission who have completed professional training and who hold a B.C. Teacher's Certificate may, at the discretion of the Faculty Admissions Committee, receive up to 15 units of credit for basic professional training. Those whose professional training was not completed within the last ten years must submit the following for the Committee's consideration: (1) a resumé of all teaching experience — indicating dates, locations, and grade levels; and (2) a copy of the most recent Superintendents' and/or Principals' Reports. The Admissions Committee will determine what credit for work already completed will be applied to the student's chosen programme.

Many Education courses are open to students in other Faculties by permission of the instructor. A student may receive retroactive credit upon transfer to the Faculty of Education for course work taken for no credit while registered in another Faculty. Normally such credit will be granted only to students who have received prior approval of the Education Advising Centre.

MINIMUM REQUIREMENTS FOR ACCEPTANCE INTO PROFESSIONAL YEARS

No registration in any of the Professional Years will be accepted after September 3, 1974.

Normally the professional year is the third year in the elementary programme and the fifth year in the secondary programme. Diploma programmes follow a degree.

Students on a Bachelor of Education degree programme who are admitted with only minimum requirements to a professional year will not qualify for a teaching credential until further specified work has been completed. (Refer to teacher certification p. 253.)

A candidate who does not fully meet the following requirements for acceptance into a professional year may petition the Faculty of Education Admissions Committee for special consideration of his case.

A. THE BACHELOR OF EDUCATION DEGREE

A1. ELEMENTARY CURRICULUM

- (a) Regular Programme — (For students previously registered in this degree programme.)

Credit in at least 25½ units that must include:

Education 297	1½ units
Education 200	3 units
Core course(s) in art or music or physical education	3 units
Two of English 111, 115, 121, 122	3 units
Mathematics 160 or other approved mathematics	3 units
Education 145 or other laboratory science	3 units
Geography 101 (or 200-level laboratory courses taken with permission of the Department of Geography) or History 230 (or other Canadian history with permission of the Education Advising Centre)	3 units

A G.P.A. of 3.00 in the immediately preceding year is required.

- (b) Transitional Programme — (Normally for students transferring to this degree programme.)

Credit in at least 24 units that must include:

English	6 units
Mathematics	3 units
A laboratory science	3 units
Geography (must normally include a laboratory session)	3 units
History (Canadian content; other only with permission of Education Advising Centre)	3 units

A G.P.A. of 3.00 (UVic C+) in the immediately preceding year is required.

A2. SECONDARY CURRICULUM

Completion of:

- (a) two teaching areas with a G.P.A. of 3.00 in the senior courses of each (except where fewer than 9 units of senior work is taken in which case the senior-level courses and one or more of the 200-level courses in the area will be included to a total of 9 units);
- (b) the specified co-requisites; and
- (c) the courses in Education required in the first four years of the programme.

In addition, a G.P.A. of 3.00 in the immediately preceding two years is required.

C. DIPLOMA PROGRAMMES FOR GRADUATES**C1. ELEMENTARY CURRICULUM**

The applicant must possess a degree from a recognized university acceptable in content to the Faculty Admissions Committee with a minimum G.P.A. of 3.00 (UVic C+) in the immediately preceding *two* years.

The academic preparation for the Elementary Diploma Programme normally shall include the following:

English	6 units
Mathematics	3 units
Laboratory Science	3 units
Geography (must normally include a laboratory session) or History (Canadian content; other only with permission of the Education Advising Centre)	3 units

Under exceptional circumstances, if a student lacks any of the above as prerequisites he may be admitted to this programme provided that he is prepared to correct deficiencies. It is to be expressly understood that a student *will not be awarded the diploma nor be recommended for a teaching certificate until all courses specified by the Faculty Admissions Committee are successfully completed*. Candidates are strongly urged to make up deficiencies before entering the diploma programme.

C2. SECONDARY CURRICULUM

Students are advised that it is highly desirable to offer two teaching subjects. Recommended courses are listed on pages 264-269.

The applicant must possess a degree from a recognized university acceptable in content to the Faculty Admissions Committee with a minimum G.P.A. of 3.00 (UVic C+) in the immediately preceding *two* years. The degree must include:

- (a) the equivalent of at least 9 units in senior courses in each of two of the following subjects: art, biological sciences*, chemistry*, English, French, general science*, geography, German, history, Latin, mathematics, music**, physical education, physics*, Russian, Spanish, theatre; or with special approval of the Dean, other subject areas normally taught in the secondary schools of British Columbia; with a G.P.A. of 3.00 (UVic C+) on the best 9 units of senior courses in each subject area; or
- (b) a Master's or Honours degree in one of the subjects listed in (a); or
- (c) the equivalent of at least 15 units in senior courses in any one of the subjects listed in (a) with a G.P.A. of 3.00 (UVic C+) in these courses and an additional 9-unit sequence of junior and senior courses in a second teaching subject area.

*All science courses must be acceptable to the Science Education Section.

**Students are strongly urged to include 3 units of Music Education in their undergraduate programmes.

D. INTERNSHIP PROGRAMMES

These programmes have been suspended and will not be offered in 1974-75.

G. DIPLOMA PROGRAMME IN NATIVE INDIAN LANGUAGES

(non-certificate)

A programme of courses over one academic year will be offered, beginning in September 1974 to prepare individuals to function as consultants, coordinators, or resource aides in the teaching of Native Indian languages in communities or schools of British Columbia. Priority for admission will be given to individuals who are identified by local community organizations which express an interest in developing or continuing native language instruction. Some degree of competence in one of the native languages of British Columbia is a desirable prerequisite but is not absolutely necessary if the student meets other admission criteria and has adequate access to speakers of a native language.

The courses may be taken by an individual for the one year diploma only or they may be taken as a part of or after completion of a degree programme by students currently enrolled in the University. In cases where the courses are taken as part of a degree programme, they would be counted as electives only.

Preliminary screening will be made by a committee from the Department of Linguistics and the Faculty of Education which will forward applications and committee recommendations to the Senate Committee on Admission and Re-registration when such action is appropriate. In addition to the usual application form and transcripts for new admissions to the University submitted to the Director of Admissions (see page 11), each application should include two letters of reference and a letter written by the applicant outlining his personal background and future aspirations.

GENERAL INFORMATION

ACADEMIC ADVICE

Students wishing advice about any of the undergraduate courses or programmes (including the Diploma programmes) offered in the Faculty of Education should consult the Education Advising Centre, Room 250, MacLaurin Building, or write to that office for information.

All undergraduate students registered in the Faculty are expected to make a commitment to a particular programme with two specific teaching areas. The Education Advising Centre will prepare a Programme Outline for each student based on current Faculty regulations. In preparing the Programme Outline the Advising Centre will consider all previously completed work in relation to the student's choice of programme and teaching areas. Because of the accelerating rate of change in subject matter, students may not always receive full credit for work taken more than ten years earlier. All Programme Outlines prepared by the Advising Centre will be subject to revision in the light of current requirements if not completed within ten years and may, on occasion, be lengthened. All students are advised to confirm programme requirements with the Advising Centre before they register in any session in order to learn of changes in course numbers and teaching areas.

Advisors are available by appointment. When possible interviews should be scheduled in advance by telephone or letter.

STANDING AND CREDIT

Professional Year. Successful completion of the professional year (including Diploma programme as well as regular and transitional professional years) requires a G.P.A. of 3.00 on all courses taken during that year for the purpose of determining eligibility for a teaching credential.

Graduation Requirements. Students should refer to the general statements on page 22 of this Calendar. In addition, to be eligible for the Bachelor of Education degree, the candidate must normally have earned:

- (a) a passing grade in each of the courses comprising the degree programme;
- (b) a G.P.A. of 3.00 on the work of the professional year;
- (c) a G.P.A. of 3.00 on the work of the teaching areas in the elementary programme, and on the teaching areas as specified on pages 264-69 in the secondary programme;
- (d) a G.P.A. of 3.00 on all work taken subsequent to the professional year. Failed courses will be counted in computing the G.P.A.

Graduating Average. The graduating average of a student graduating from the Faculty of Education shall be determined as the weighted average of all 300 and 400 level courses taken for credit in the Faculty except where credit has been obtained for more than 30 units of such courses, in which case the 30 units yielding the highest weighted average will be selected (including where necessary, the appropriate fraction of a course).

Probation. A student who meets the University's minimum requirement for satisfactory standing in a given year but whose standing is nevertheless considered by the Faculty to be unsatisfactory, will be placed on probation for the following year. At the end of that year the probationary category may be removed, or if there has been insufficient improvement, the student will not be permitted to proceed to the next higher year. If a student fails to qualify for acceptance into the professional year, a year's extension may be granted to complete these requirements. This year shall be considered probationary. Students who fail to meet the stated requirements shall be denied entry to the professional year and normally shall be required to withdraw from the Faculty.

CREDIT FOR STUDIES UNDERTAKEN AT OTHER INSTITUTIONS

Students who plan to undertake work at other institutions are required to seek prior approval from the Education Advising Centre if they wish such courses to be credited toward a degree at the University of Victoria.

Reference is made to the general university regulations given on pages 19-22.

SCHOOL EXPERIENCE, STUDENT TEACHING AND SEMINARS

School experience, student teaching and seminars form an integral part of the elementary and secondary programmes. Requirements for the elementary programme are outlined in the course descriptions of EDUC 197, 297 and 797, and for the secondary programme in the course descriptions of EDUC 398 and 498. It should be noted that material formerly associated with EDUC 798 is now included in the methodology courses and EDUC 430.

Students should be aware that *all arrangements* for school experience and student teaching are made through the seminars and/or the Student Teaching Office which is located in the MacLaurin Building.

Professional year students should note that starting in 1974-75 *all* elementary and secondary programmes commence with a two-week school experience. Orientation and placement for these activities will take place Tuesday afternoon, September 3, after the completion of registration. In order to provide for sufficient school placements it will be necessary for each professional year student to apply for school experience on a form provided by the Registrar's Office when authorization for registration has been granted. This application must reach the Student Teaching Office by August 16 if a school placement is to be guaranteed. Students will only be admitted into the professional year programmes after this date if placements can be arranged. However, absolutely no professional year students will be accepted after September 3, 1974.

Education students undertaking any school experience should budget for an additional \$50.00 to \$100.00 for travel to schools. When a post-session practicum is required, students are reminded that their year may not be completed until the latter part of May. Only those students resident in the Victoria area may normally expect to take post-session experiences in School Districts No. 61, 62 or 63.

TEACHER CERTIFICATION

The Public Schools Act of British Columbia requires that any person employed as a teacher in any public school hold a teacher's certificate issued by the Provincial Department of Education. Sole authority to issue such teaching certificates rests with the Department of Education, Parliament Buildings, Victoria, and all enquiries concerning certification must be directed to the Registrar of that Department. A degree or a transcript of credit from a university or teacher's college is not a certificate of authority to teach.

The following general statement on certification policy was provided by the Registrar's Branch of the Department of Education at the time the Calendar went to print. Information on subsequent changes which may have been made by the Department of Education, or clarification on specific certification problems, must be obtained from that same source.

The Professional Certificate and the Standard Certificate are the two types of regular teaching certificates currently issued by the Department of Education. The Professional Certificate requires completion of an acceptable four or five-year post-secondary school programme, normally culminating in a suitable university degree, and the Standard Certificate, of a minimum three-year post-secondary school programme of approved professional and academic preparation. All acceptable programmes must evidence completion of at least one year or the equivalent of basic teacher education including suitable study of teaching methodology, educational foundations (such as educational psychology, philosophy, history, sociology), measurement and evaluation, either elementary or secondary school curricula, and supervised observation and practice teaching.

All initial certificates issued are interim, valid for up to four years. Permanent Professional and Standard Certificates *may* be authorized after the teacher has satisfied additional conditions including proof of at least two years of recent satisfactory teaching service in British Columbia schools.

Persons possessing minimal British Columbia teacher certification issued under previous regulations (Elementary B, Elementary C) or under current regulations (Teaching Licence issued for certain *approved* teacher preparation programmes of less than three years' duration), and those holding Standard Certificates may qualify for higher certification by completing approved preparation programmes at the University. Teacher preparation programmes approved by the Department of Education for higher certification are premised upon the applicant's standing on a suitable degree programme. Consequently, courses to be undertaken must be carefully planned in accordance with the programme or degree requirements of the Faculty of the University in which the applicant is registered. Attention is drawn to course requirements for degree programmes as prescribed in the Calendar of the University. All inquiries concerning such requirements must be made at the appropriate Faculty at the University (see page 38 **Academic Advising**).

In summary, providing full basic teacher professional education is included, under current regulations teachers generally may qualify for the types of certificates noted below by completing the appropriate specified standing on a degree programme in the Faculty of Education.

Full Fourth Year or Full Fifth Year Professional Certificate
 Full Third Year Standard Certificate

Those with *basic teacher professional education acceptable to the Department of Education* (at least one university year or the equivalent) may proceed to a suitable *Bachelor of Arts or other appropriate degree* and, under *current* regulations, normally qualify for certification as follows:

*Full Third Year or Full Fourth Year Professional Certificate
 *Full Second Year Standard Certificate

*NOTE: A Student wishing to qualify for certification on the basis of full Second or Third Year standing in a faculty other than the Faculty of Education, will be required to file a declaration of degree programme with the Advising Centre of the faculty concerned before any statement can be made by the Registrar's Office concerning his status on that degree programme.

APPLICATION FOR TEACHER CERTIFICATION

It must be recognized that the sole responsibility for teacher certification rests with the Department of Education in Victoria.

The *initial application* for a teaching certificate by a candidate who has completed basic professional training at the University must be made on a form provided by the Department of Education which is sent out with a student's Statement of Grades at the end of the Winter Session. This form, duly completed by the applicant and accompanied by a registration fee of \$5.00 and birth certificate, must be forwarded direct to *The Registrar, Department of Education, Parliament Buildings, Victoria.*

It is also the responsibility of a teacher to make application to *The Registrar, Department of Education*, for any change in certification, including permanent certification, or for extension of interim certification. Such applications can be made by letter to the above official. In cases where completion of course work satisfies requirements for a type of certificate which may be made permanent, providing other requirements for permanent certification already have been satisfied (including two years of recent satisfactory teaching in British Columbia schools), the teacher must make simultaneous but separate application for permanent certification in the normal fashion through his or her District Superintendent of Schools.

As soon as possible after the conclusion of each Winter Session, the University reports to the Department of Education and District Superintendents on the academic record of each student registered in the Faculty of Education and is taking 9 units or more

who has successfully completed basic professional training. Students have the right to request in writing that information on their academic records be omitted from the report. Since the type of certificate issued is dependent upon the student's standing with the University, the report gives the Department of Education the necessary information upon which to base its assessment of the candidate's eligibility for the teaching credential for which he has applied.

A person who has previously completed the basic professional training and plans to apply to the Department of Education for a change in certification, but who has been registered in another faculty during the Winter Session, must request the Registrar of the University to send a statement of standing to that Department.

PROVISIONS FOR TEACHERS WITH CERTIFICATES FROM OTHER PROVINCES OR COUNTRIES

All enquiries must be directed to the Registrar of the Department of Education, Parliament Buildings, Victoria. For an individual who has qualified for certification, there are opportunities to advance certification level through the undertaking of various university degree programmes by means of university summer session or full-time winter session studies. Admission and placement in terms of university degree studies is determined by the university at which the individual registers, not by the Department of Education. Placement on a degree programme, therefore, is not made by the university on the basis of the certificate issued by the Department of Education but on the amount of appropriate course credit recognized on admission. Advancement of certification thereafter is related to the obtaining of a given standing toward a specific degree at an approved institution.

TEACHER QUALIFICATION SERVICE

The Teacher Qualification Service, sponsored jointly by the B.C. Teachers' Federation and the B.C. School Trustees' Association, provides an advisory service to teachers and school boards and evaluates teacher qualifications.

The Service acts only upon application and only after the individual has been granted a British Columbia Teaching Certificate (or has been assured of being granted such a certificate) by the Provincial Department of Education.

Qualifications are evaluated and categories assigned on the basis of complete years of professional preparation; partial years are not evaluated. At present the Teacher Qualification Service recognizes six categories, each corresponding to the number of years of training acceptable to the Teacher Qualification Service. One of the years must be a professional year.

Broadly speaking, the B.C. Teaching Licence qualifies for Teacher Qualification Service category 1 or 2, the Standard Certificate for category 3 or 4, and the Professional Certificate for category 4, 5 or 6. Teacher Qualification Service category 6 requires a minimum of six years of training and a Master's degree.

"Request for Evaluation" forms are available from the Teacher Qualification Service office, #220 - 1070 West Broadway, Vancouver 9; the Education Advising Centre, Room 250, MacLaurin Building; and the Registrar's Office, Building M.

A. THE BACHELOR OF EDUCATION DEGREE**A1. ELEMENTARY CURRICULUM**

Candidates for this degree are required to complete at least 75 units including two teaching areas as described on pages 258 to 262. In addition they must elect either the Primary or Intermediate option. In programmes involving certain teaching areas Years Four and Five may be taken in Summer Sessions.

This programme extends over five regular sessions and ALL courses shown in the programme as the "Professional Year" should normally be taken during one winter session. In special cases students may petition the Faculty Admissions Committee to have this requirement waived.

Students registered in a Professional Year are normally not permitted to register for courses other than those specified. Consult the Education Advising Centre.

Students entering this programme with advanced standing from another faculty or institution will be required to make up any deficiency. In some instances, therefore, students will need courses beyond the minimum degree requirement.

COURSE REQUIREMENTS:

The degree requires successful completion of the following as a minimum:

a. Education:	26½-28½ units
Education 197 (Regular programme only)	1½
Education 297 (Regular programme only)	1½
Education 797	3
Education 200	3
Education 305	3
Education 340, or 342 and 343	3
Education 420, 423, 425, or 427	3
Education 337	1½
Education 437 or Education elective	1½
Curriculum and Instruction, 700 series	6-8½
b. Core Courses:	21 units
Two of English 111, 115, 121, 122, and one of 200, 201, 203, 204, 205, 300	6
History 230 (or other Canadian history with per- mission of the Education Advising Centre)	3
Geography 101 (or 200-level laboratory courses taken with permission of the Department of Geography)	3
Mathematics 160* or other approved mathematics	3
Education 145 or other laboratory science	3
Approved course(s) in art education, music education or physical education	3
c. Two teaching areas and electives**	27-33 units
<hr/> TOTAL 75-77½ units	

* Mathematics 160 is not acceptable for credit in the mathematics or mathematics/science teaching areas.

** When choosing electives, students should note the following:

1. Psychology 335 is not normally acceptable for credit in the Faculty of Education because the course content is similar to Education 305 and 406.
2. Not more than 3 units of additional courses applicable to a student's particular teaching area may be taken without permission of the Advising Centre.
3. General University regulations require a minimum of 21 units of courses numbered 300 or 400.

PROGRAMME BY YEARS:

A. REGULAR PROGRAMME

Year One:

Education 197	1½	
Two of English 111, 115, 121, 122	3	
History 230 (or other Canadian history with permission of the Education Advising Centre)	3	
Education 145 or other laboratory science	3	
Approved three units from the following:		
Art Education 100;		
Music Education 106 and one of		
Music Education 105, 207, 208, 209;		
Physical Education 149; or 100, 141 and		
143 for students on a physical		
education teaching area	3	
A course in a teaching area if required,		
or elective	1½	15 units

Year Two: Pre-Professional Year

Education 297	1½	
Education 200	3	
English 200, 201, 203, 204, 205 or 300	3	
Geography 101 (or 200-level laboratory courses taken with permission of the Department of Geography)	3	
Mathematics 160, or other approved mathematics	3	
A course in a teaching area or elective	1½	15 units

Year Three: Professional Year

NOTE: Students registered in a Professional Year are normally not permitted to take courses other than those specified.

Education 305	3	
Education 337	1½	
Education 742 (Primary or Intermediate)	2	
Education 744	1½	
Education 745	1	
Education 746	1	
Education 797	3	
*Two of Education 701, 705 or 706 or 707, 747	2	15 units

*Students are required to complete 1-unit courses in the areas they have not already covered in depth. Those on the Music Education teaching area may be required to take Education 707 in addition. Students on the Physical Education teaching area who have not completed PE 345/446 are advised to take Education 747 in addition.

Years Four and Five:

Education 340 (Primary) or 342 and 343 (Intermediate)	3	
Education 420, 423, 425 or 427	3	
Education 437 or Education elective	1½	
Courses in teaching areas and electives	24	31½ units

TOTAL UNITS 76½

- b. **Transitional Programme:** (Normally for students transferring to this degree programme; see page 256 for minimum acceptance requirements.)

Years One and Two:

Two of English 111, 115, 121, 122 (equivalent) ..	3	
English 200, 201, 203, 204, 205, or 300 (equivalent)	3	
Mathematics	3	
Laboratory science	3	
Geography (must normally include a laboratory session)	3	
History (Canadian content; other only with permission of the Education Advising Centre)	3	
Teaching area, prerequisites, or electives	12	30 units

Year Three: Transitional Professional Year

Education 200	3	
Education 305	3	
Education 701	1	
Education 705, 706, or 707	1	
Education 742 (Primary or Intermediate)	2	
Education 744	1½	
Education 745	1	
Education 746	1	
Education 747	1	
Education 797	3	17½ units

Years Four and Five:

Education 337 (Required in Year Four)	1½	
Education 340 (Primary) or 342 and 343 (Intermediate)	3	
Education 420, 423, 425, or 427	3	
Education 437 or Education elective	1½	
Courses in teaching areas and electives	21	30 units

TOTAL UNITS 77½

TEACHING AREAS (ELEMENTARY)**ART EDUCATION:**

Core: Art Education 100

Area:

History in Art 120	3	
Art Education 300	3	
Art Education 301	3	
Art Education 302 or Visual Arts elective	3	
Art Education 400	3	15

CREATIVE DRAMA:

Theatre 181	3	
Two of Theatre 382, 383, 330	3	
Two of Education: 316 or 317; 344; 360	3	12

EARLY CHILDHOOD EDUCATION (PRIMARY OPTION ONLY):

Education 341	3	
Approved electives	6	
One of the following:	3	12
Kindergarten		
Education 440, 441	3	
Primary		
Education 440, 342	3	

LANGUAGE ARTS:

Linguistics 390	3	
Either of the following options:	9	12
Primary option:		
Education 341	3	
Education 342	1½	
Education 343	1½	
3 units from:	3	
Education 344, 347, 348, 442,		
Theatre 181, 382,		
Library Education 432, 433, 434, 435.		
Intermediate option:*		
English 301 or Education 341	3	
Education 347	1½	
Education 348	1½	
3 units from:	3	
Education 344, 442,		
Theatre 181, 382,		
Library Education 432, 433, 434, 435.		

*Education 342 and 343 must be included in the core.

LIBRARY EDUCATION:

Library Education 432	1½	
Library Education 433	1½	
Library Education 434	1½	
Library Education 435	1½	
Education 360	1½	
One of Education 341* or English 301	3	
Approved elective**	1½	12

* Students on the primary option must take Education 341.

** Education 342 must be included as part of the degree programme of all students in this area.

MATHEMATICS EDUCATION:

Core: 3 units of approved mathematics chosen from Mathematics 130 (or 100/101); 151/102; 110/210; or other 3 units of Mathematics by special permission.

Area:

Education 443	1½	
Education 444	1½	
Approved mathematics	9	12

In planning a sequence of courses, students must consider prerequisites. Mathematics 102, 151, 240, 110, 210, and Computing Science 170 and 171 would be an appropriate selection of courses. Students with at least a B standing in Mathematics 12 might consider courses suggested for prospective secondary teachers: Mathematics 130, 110, 200, 201, 210, 332, and Computing Science 170, 171.

The following courses are not acceptable for credit in the mathematics teaching area or in the core when the teaching area is mathematics: Mathematics 012, 160, 180, 203, 360.

MATHEMATICS/SCIENCE:

Core: Approved mathematics chosen from 151/102; 130 (or 100/101); 110/210 (or 232); or other mathematics courses by special permission.
Approved laboratory science.

Area:

Education 443/444	3
Education 345	3
Approved mathematics	3
Education 445 or approved science	3
	12

The following courses are not acceptable for credit in the Mathematics/Science teaching area or in the core when Mathematics/Science is the teaching area: Mathematics 012, 160, 180, 203, 360.

MUSIC EDUCATION:

Core: Music Education 106 and one of Music Education 105, 207, 208, 209.

Area:

Music Education 300	1½
Music Education 306	1½
Music Education 309	1½
Approved Music and/or Music Education	10½
	15

All students accepted in this area will be required to complete one of the following:

- one year in a university performance group; or
- equivalent participation in an off-campus performance group approved by the Music Education Section.

Students wishing to enter the Music Education teaching area must first consult with the Music Education Section Chairman regarding acceptance. Any student presenting an A.R.C.T. or equivalent diploma will have his diploma evaluated by the Music Education Section. Up to 6 units of credit may be granted for his diploma at the discretion of the Music Education Section.

OUTDOOR EDUCATION:

Education 345	3
Education 370	3
Education 371	1½
Approved electives*	6
	13½

*Students will elect at least six additional units from approved courses in Education, Biology, Geography, Anthropology or History. Selection must include courses in two of these subject areas.

PHYSICAL EDUCATION:

Core: Physical Education 100, 141, 143.

Area:

Physical Education 101	0
Physical Education 142	1½
Physical Education 151	1½
Physical Education 241	3
Approved Physical Education (PE 341, 342, or 442; PE 444 or 445; PE 345; PE 446; PE 460)	7½
	13½

Students who do not have a current First Aid certificate are strongly advised to take PE 344 as an elective.

Entry into the Physical Education teaching area is limited. Candidates whose dossier is not complete (including medical report, transcript, and letter of experience) by August 15 cannot be considered. Application for Admission or Re-Registration must be made by the due dates given on pages 10 and 11.

- Medical:* All students planning on entering this teaching area must have a full medical examination within four months prior to registration. Even before completing the Application for Admission to the University, and in any case before

July 1, students should write to the Admissions Office for medical cards; these must be fully completed, including the medical examiner's statement and returned to the University Health Service by August 15. The line on the card headed "Faculty" should be clearly marked "Physical Education Teaching Area."

2. *Transcripts*: In addition to submitting transcripts for admission to this faculty as specified on page 11, a student wishing to enter this teaching area must submit by August 15 to the Physical Education Section a transcript of his previous year's work. If he is planning to enter the programme as a second year student, he should supply transcripts for the previous two years. Applicants for First and Second Year should have C+ or equivalent standing in their last year in Secondary School and/or in First Year University.
3. A student must request a form from the Admissions Office on which to describe his experience in physical education, athletics and recreation activities in secondary school and the community. This should be completed and returned to the Physical Education Section by August 15.
4. *Physical Proficiency Test*: The standards achieved on this examination will be included in the criteria for acceptance to the programme. Students planning to enter this teaching area will undergo a physical proficiency examination at 8:30 a.m. on Wednesday, August 28th, in the Gymnasium. Gym clothing will be required. Students should expect to be in Victoria for three days of testing.

Students are advised to include chemistry and biology in their secondary school programmes. Students who do not have Chemistry 11 and Biology 11 may be denied acceptance into the Physical Education teaching area.

Regulation uniforms, which may be obtained at the University Bookstore, are required by all students specializing in physical education.

Students who fail to qualify for acceptance to this area on first application and who intend to re-apply in their second year are warned that Physical Education 149 is not acceptable for credit on a Physical Education teaching area. Any student who has elected to do Physical Education 149 and is then accepted into the Physical Education teaching area cannot count the credit for this course toward his degree.

Completion of a Physical Education teaching area normally requires attendance in at least three regular winter sessions, exclusive of the professional year.

REMEDIAL:

Education 316	1½	
Education 402	1½	
Education 415	3	
Education 417	3	
Education 342 and 343*	0-3	
Approved remedial options	3-6	15

*Education 342 and 343 may not be included if they form part of the core.

SCIENCE:

Core: A laboratory science chosen from one of the following groups:

1. Education 145, Physics, or Chemistry
2. Biology or Bacteriology

Area:

A laboratory science chosen from the other group above	3	
One of Astronomy 120, 200, Geology 200, Geography 203, alternative approved by the Science Education Section	3	
Science elective chosen from any subject listed above or Education 345, Science 300, Geography 372, Physical Education 241 (Education 145 may not be chosen)	3	
Education 445	3	12

Students on the four-year Bachelor of Education (Elementary) programme will substitute an elective for Education 345 in Year Four.

SOCIAL STUDIES:

Anthropology 339 or other approved		
anthropology	3	
Education 346	3	
*Six units of senior Geography or 6 units of Senior History or 6 units of approved		
Anthropology	6	12

*Education 432 (1½) may be substituted in this 6 unit concentration.

SPECIAL CLASSES:

Education 407	1½	
Education 415	3	
4½ units chosen from Education 402, 408, 409A, 409C, 409D, 409E, 442	4½	9

Education 496 is recommended in addition to the above for students specializing in certain areas.

ACADEMIC SUBJECT AREAS:

With prior approval of the Education Advising Centre, 15 units of a General Programme offered by a department of the Faculty of Arts and Science may be acceptable as a teaching area (elementary).

A2. SECONDARY CURRICULUM

Candidates for this degree are required to complete a minimum of 75 units including specialization in two subject areas normally taught in the secondary schools of B.C. In each of these areas including prerequisite courses, students must complete no fewer than 15 units. For graduation, a G.P.A. of 3.00 must be obtained in the senior courses of each subject area. The calculation of a teaching area G.P.A. on the secondary programme shall be based on all senior courses of the teaching area. When less than nine units of senior courses are taken the minimum basis for the calculation shall include the senior courses and one or more of the 200-level courses from the same teaching area to a total of 9 units. In addition, a G.P.A. of 3.00 must be attained in the courses of the professional year. A G.P.A. of 3.00 is required in courses taken subsequent to the professional year.

With the approval of the Faculty Admissions Committee and the Dean of Education, students may be recommended for a degree with a teaching area regularly taught in the B.C. School System but outside of those offered within the Faculty of Education.

The programme ordinarily requires attendance at five winter sessions. A seminar and professional experience or student teaching will be required in Years Three, Four, and Five. All courses shown in the programme as the "Professional Year" should normally be taken during one winter session. In special cases students may petition the Faculty Admissions Committee to have this requirement waived.

Students registered in a Professional year are normally not permitted to register for courses other than those specified. Consult the Education Advising Centre.

COURSE REQUIREMENTS:

The degree requires successful completion of the following as a minimum:

a. Education:		24 units
Education 303	1½	
Education 337	1½	
Education 398	1½	
Education 406	3	
Education 420, 423, 425, or 427	3	
Education 430	1½	
Education 437 or Education elective	1½	

Education 498	1½	
Education electives	3	
Curriculum and Instruction, 750-769	6	
b. Courses chosen from two teaching areas (including prerequisites and co-requisites)	42	42 units
c. Electives*	9	9 units
		<u>TOTAL 75 units</u>

* When choosing electives students should note the following:

1. Psychology 335 is not normally acceptable for credit in the Faculty of Education because the course content is similar to Education 305 and 406.
2. General University regulations require a minimum of 21 units of courses numbered 300 or 400.

PROGRAMME BY YEARS:

Year One:

Two of English 111, 115, 121, 122	3	
Teaching areas	6	
Corequisites and/or electives	6	15 units

Year Two:

Teaching areas	9	
Corequisites and/or electives	6	15 units

Year Three:

Education 398	1½	
Education 316, 317, 360, or other approved education elective	1½	
Education 406	3	
Teaching areas and/or electives	9	15 units

Year Four:

Education 498	1½	
Education 303	1½	
Teaching areas and/or electives	12	15 units

Year Five: Professional Year

Education 337	1½	
Education 420, 423, 425, or 427	3	
Education 430	1½	
Education 437 or Education elective	1½	
One of Education 750 to 769 (first teaching area)	3	
One of Education 750 to 769 (second teaching area)	3	
Approved Education elective	1½	15 units

TOTAL 75 units

PROGRAMME FOR THOSE WHO HAVE COMPLETED PROFESSIONAL TRAINING:

Students who have completed two or three years of university study including a professional year at this university or who hold a teaching certificate issued by the Department of Education may transfer to the Bachelor of Education (Secondary Curriculum) programme and complete the degree and requirements for teaching in the secondary schools. The following specific conditions will apply:

- (1) As a minimum the student must meet the unit requirements, teaching area requirements, and G.P.A. requirements as stated in section A2, page 262.

- (2) Education courses will be determined by the Faculty Admissions Committee.
- (3) A student will be considered to have met the minimum requirements for Year Four only when 15 units or less are required to complete the degree and for Year Three only when 33 units or less are required to complete the degree (and provided 30 units have been completed in addition to a professional year).

TEACHING AREAS (SECONDARY):

The minimum required in each of the two teaching areas is 15 units. In addition to these 30 units a total of 12 units is required made up of corequisites and additional area courses. Only with prior permission of the Education Advising Centre may exceptions be permitted to any of the following subject and course requirements.

ART:

*Corequisites:

Two of English 111, 115, 121, 122	3
English 200, 201, 202, 203 or 300	3..... 6

Area:

History in Art 120	3
Art Education 100	3
Art Education 300	3
Art Education 301	3
Art Education 400	3.....15

*At least 3 units of English literature must be included.

Additional area courses may be chosen from Art Education 302, 303, 304; or, with prior approval of the Art Education Section Chairman, from courses in Visual Arts or History in Art.

BIOLOGICAL SCIENCES:

Corequisites:

Chemistry 124 or 120	3
Chemistry 230 or 233	3
Two of English 111, 115, 121, 122	3..... 9

Area:

Biology 150*	3
Biology 200	3
Two of Biology 203, 204, 206, 207	3
Biology 300 or 320	1½
**Electives from Biology, Bacteriology, Biochemistry, Education 370	4½.....15

*Students excused Biology 150 by the Biology Department (see page 107) will substitute 3 units in Biology or Bacteriology.

**One botany course must be included in the area.

Except where prior permission is obtained from the Education Advising Centre, additional area courses will be chosen from those numbered 300 or higher.

CHEMISTRY:

Corequisite:

Two of English 111, 115, 121, 122	3..... 3
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Area:

Chemistry 124*	3
Chemistry 224	3
Chemistry 230 or 233	3
Approved Chemistry electives	6.....15

*Students excused Chemistry 124 by the Chemistry Department will substitute 3 units of approved Chemistry.

Additional area courses must be approved by the Science Education Section Chairman.

ENGLISH:

Corequisites:		
Linguistics 100	3	
Linguistics 390	3	6
Area:		
English 121, 122	3	
English 200*	3	
English 400**	3	
English 434 or 435	3	
English 437	3	15

*English 204 and 205 may be taken in place of English 200 in 18-24 unit sequences.

**English 300 may be taken in Year Two, in place of English 400.

Additional area courses: English 423 or 424, 413, 389 (formerly 433), 430, or 386/387 formerly 431), 429 or 438 (recommended in this order). English 203 may be taken in a 21- or 24-unit sequence. Only one course in American literature may be taken in the area.

FRENCH:

Corequisites:		
English 121, 122	3	3
(English 200 recommended)		
Area:		
French 180	3	
French 285	3	
French 290	3	
French 302	3	
French 350*	3	15

*Where a student can demonstrate competence in oral French satisfactory to the instructor in Education 754, 3 units of French numbered 400 or higher may be substituted for French 350.

Additional area courses will be chosen from those numbered 400 or higher.

GENERAL SCIENCE:

Corequisites:		
Two of English 111, 115, 121, 122	3	
Mathematics 130	3	6
*Area:		
Astronomy elective	3	
Physics elective	3	
Biology, Bacteriology, or Biochemistry elective	3	
Chemistry elective	3	
3 units from: Geology 200, Geography 203, 350, 370, 372, 373, 374, 375, 376, 377	3	
One 200-level course from Physics, Chemistry, or Biology	3	
One elective from any of the above or Education 370	3	21

*The selected programme must be approved by the Science Education Section Chairman.

GEOGRAPHY:

Corequisite:		
Two of English 111, 115, 121, 122	3	3
Area:		
Geography 101	3	
Geography 201, 203, or 205	3	
Geography 204	3	
Geography 340 (formerly 305) or 350	3	
Senior Geography	3	15

Except where prior permission is obtained from the Education Advising Centre, additional area courses will be chosen from those numbered 300 or higher.

One senior course in regional geography is strongly recommended. Students taking 21 or 24 units of geography are advised to take both Geography 340 and 350.

GERMAN:

Corequisites:

English 121, 122	3
English 200	3..... 6

Area:

German 100 or 140	3
German 200	3
German 201 or 202	3
German 302	3
Senior German (400 or higher)	3.....15

Additional area courses will be chosen from those numbered 400 or higher.

GUIDANCE:

This teaching area is not open to new students. Students now registered in this area may complete the programme as described on their Programme Outlines.

Students interested in Guidance and Counselling are directed to the following courses which may be taken as electives: Education 316, 317, 414, 417, 438 (formerly 302).

HISTORY:

Corequisites:

Two of English 111, 115, 121, 122	3
English 200, 201, 204, or 205	3..... 6

Area:

Courses in History chosen to meet the following requirements:

1. at least 3 units in Canadian History
2. at least 3 units in modern European or contemporary world history
3. at least 6 units junior-level
4. at least 9 units senior-level 15.....15

Political Science 216 or 316 may be elected in place of one history course. Students in this area may not elect History/History in Art as their second area.

Except where prior permission is obtained from the Education Advising Centre, additional area courses will be chosen from those numbered 300 or higher.

HISTORY/HISTORY IN ART:

Corequisites:

Two of English 111, 115, 121, 122	3
English 200, 201 or 205	3..... 6

Area:

History courses must be chosen to meet the following requirements: 12

1. at least 6 units at the senior level
2. at least 3 units of Canadian History
3. at least 3 units of modern European or contemporary world history

History in Art 120 or 390 3

Nine further units from History in Art (excluding HA 490) 9.....24

This is a 24-unit area for students wishing to take History and History in Art as one area. Students in this area may not elect History as their second area.

INDUSTRIAL EDUCATION:

Corequisite:

Two of English 111, 115, 121, 122 3..... 3

Area:

Courses in Industrial Education will be taken at Burnaby. Students will register for this work in the Faculty of Education at U.B.C. normally in years three and four taking courses specified by that faculty at the time of registration. Letters of Permission must be obtained from the Education Advising Centre to be submitted with applications for admission to U.B.C. Upon completion of these two years, approved credit towards the degree will be transferred to the University of Victoria.

Students planning to enter Industrial Education must be acceptable to the Division of Technical and Vocational Education, Department of Education. An interview with officials of this department should be arranged during the first year.

Candidates for the Industrial Education programme should take Math 11 and Physics or Chemistry at the Grade 11 or 12 level, in addition to their Industrial Education courses.

In years one and two students will select two of English 111, 115, 121, 122, courses and co-requisites for the second teaching area, education courses and academic electives. Assistance in choosing appropriate courses should be obtained from the Advising Centre. A brochure describing the Industrial Education programme in full may be obtained from the Department of Education.

LATIN:

Corequisites:

English 121, 122 3
 English 200 3
 Classical Studies 100 or Greek 100 3..... 9

Area:

Approved Latin courses (including Latin 240)15

Additional area courses may include 3-6 units of senior Classics.

MATHEMATICS:

Corequisite:

Two of English 111, 115, 121, 122 3..... 3

Area:

Mathematics 130 (or 100, 101) 3
 Mathematics 110 and 210, or 232 3
 Mathematics 200 and 201, or 230 3
 Mathematics 332 or 333 3
 Computing Science 170 and 171 3.....15

Additional area courses may include Computing Science 272 and 273.

Mathematics 362 and 366 are strongly recommended.

MUSIC:

Corequisite:

Two of English 111, 115, 121, 122 3..... 3

Area:

Approved Music and/or Music Education 15
 Music performance groups (see below) 0-2½..... 15-17½

Additional area courses must be approved by the Music Education Section Chairman. Students wishing to enter the Music teaching area must first consult with the Music Education Section regarding acceptance. Any student presenting an A.R.C.T. or equivalent diploma will have his diploma evaluated by the Music Education Section. Up to 6 units of credit may be granted for his diploma at the discretion of the Music Education Section.

All students accepted in this area will be required to complete one of the following:

- (a) two years in a university performance group (Music 180 to 487); or
- (b) one year in each of two university performance groups (as specified in (a) above plus Music Education 300); or
- (c) equivalent participation in an off-campus performance group(s) approved by the Music Education Section Chairman.

PHYSICAL EDUCATION:

Corequisites:

Two of English 111, 115, 121, 122 3..... 3

Area:

Physical Education 100	0
Physical Education 101	0
Physical Education 141	1½
Physical Education 142	1½
Physical Education 143	1½
Physical Education 151	1½
Physical Education 241	3
Physical Education 350	1½
Physical Education 443	1½
Physical Education 450	1½
Physical Education 460	1½
One of Physical Education 341, 342, 441, 444	1½.....16½

- NOTES: 1. Students who do not have a current First Aid certificate are strongly advised to take PE 344 as an elective.
2. Students who wish to take a stronger concentration in Physical Education are advised to take the following 24-unit programme:

Physical Education 100	0
Physical Education 101	0
Physical Education 141	1½
Physical Education 142	1½
Physical Education 143	1½
Physical Education 151	1½
Physical Education 241	3
Physical Education 344	1½
Physical Education 350	1½
Physical Education 442	1½
Physical Education 443	1½
Physical Education 450	1½
Physical Education 460	1½
Physical Education 343 or Education 371	1½
Three of: Physical Education 341, 342, 441, 444	4½.....24

3. REFER TO PAGE 260 FOR INFORMATION REGARDING ACCEPTANCE INTO THIS AREA.

PHYSICS:

Corequisites:

Two of English 111, 115, 121, 122 3
 Mathematics 130 3
 Mathematics 231 (or 230 and 232) 3-6..... 9-12

Area:

Physics 101, 211, 212 and 313	12
or Physics 121, 212 and 213	or 9
Approved Physics electives	3-6.....15

Students are urged to seek advice from the Science Education Section regarding this area.

RUSSIAN:

Corequisites:

Two of English 111, 115, 121, 122 (Linguistics 100 recommended)	3	3
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Area:

Russian 100	3	
Russian 200	3	
Russian 201	3	
Russian 302	3	
Russian 406	3	15

Additional area courses will be chosen from the following: Russian 306, 401, 402, 403, 405.

SOCIAL STUDIES:

Corequisites:

Two of English 111, 115, 121, 122	3	
English 200, 201 or 205	3	6

Area:

Geography 101	3	
Geography 201, 203, or 205	3	
Geography 204	3	
Canadian History	3	
Modern European or contemporary world history	3	
History electives	3	
Additional courses in geography* or history	6	24

*If further geography courses are desired, Geography 340 (formerly 305) or 350 must be taken.

This is a 24-unit area for students wishing to take geography and history as one teaching area. In the professional year students will elect either Education 755 or 758. Students in this area may not elect Geography or History as their second area.

SPANISH:

Corequisites:

Two of English 111, 115, 120, 121	3	
Linguistics 100 or 360	3	6

Area:

Spanish 100	3	
Spanish 260	3	
Spanish 290	3	
Spanish 302	3	
Spanish 400	3	15

Additional area courses will be chosen from those numbered 400 or higher.

THEATRE:

Corequisites:

Two of English 111, 115, 121, 122	3	
English 200, 201 or 203	3	6

Area:

Theatre 105	3	
Theatre 181	3	
Theatre 312	3	
Theatre 330	3	
Theatre 382	3	15

An additional 9 units of area courses may be elected from any Theatre offerings.

B. THE BACHELOR OF EDUCATION (ELEMENTARY) DEGREE

This programme is being phased out and students will no longer be accepted on it. Teachers who have an official Programme Outline must complete the degree by 1977; otherwise, if they wish to proceed to a degree, it will be necessary to transfer to the five-year Bachelor of Education (Elementary Curriculum) degree programme. In so doing, credit for all courses previously completed cannot be assured.

In this programme students are required to complete only one of the teaching areas listed on pages 258 to 262 in addition to the education and core courses as specified in previous calendars.

C. DIPLOMA PROGRAMMES FOR GRADUATES

Diploma programmes are one-year professional programmes for graduates of a faculty other than Education who wish to qualify for a credential enabling them to teach in the public schools of British Columbia. Programmes are offered at the elementary and secondary levels.

Admission requirements are detailed on page 250. These programmes commence with a two-week school experience at the beginning of September and terminate about the middle of May. Successful completion requires a G.P.A. of 3.00.

Students who feel they have previously completed courses equivalent to those listed in the programmes below should consult the Education Advising Centre.

C1. ELEMENTARY CURRICULUM

Education 200	3
Education 337	1½
Education 360	1½
Education 437 or Education elective	1½
Two of Education 701, 705 or 706 or 707, 747	2
Education 742 (Primary or Intermediate)	2
Education 744	1½
Education 745	1
Education 746	1
Education 797	3.....18

C2. SECONDARY CURRICULUM

Education 303	1½
Education 337	1½
Education 406	3
Education 420, 423, 425, or 427	3
Education 430	1½
Education 437 or Education elective	1½
*Education 750 to 769	4½-6
Education elective (if required)	1½.....18

*Students admitted on the basis of two teaching subjects are required to complete 6 units of Education 750-769.

E. POST-BACHELOR OF EDUCATION (ELEMENTARY) DEGREE PROGRAMME

Teachers who hold the four-year Bachelor of Education (Elementary) degree may qualify for the Teacher Qualification Service's Category 5 by completing an approved programme consisting of a minimum of 15 units. The courses must be acceptable to the University and to the Teacher Qualification Service.

As this programme must be approved in advance, students should consult the Education Advising Centre prior to beginning any courses of the fifth year.

The programme will include the following in the order given provided they have not been completed as part of the degree:

- (a) Education 337;
- (b) A second teaching area;
- (c) Education 340, or 342 and 343 (to be taken only if necessary to bring total to 15 units);
- (d) Approved senior electives (to be taken only if necessary to bring total to 15 units).

Junior-level courses required as prerequisites must be taken in addition to the basic 15 units. A minimum G.P.A. of 3.00 is required on the courses of this programme before the Faculty will advise the Teacher Qualification Service that the year has been completed.

F. GRADUATE STUDIES IN EDUCATION

The Master of Education, and the Master of Arts and Doctor of Philosophy degrees with specialization in Education are offered through the Faculty of Graduate Studies; information about these degrees may be found on pages 311-316, and 325 of the Calendar. Inquiries concerning Graduate Studies in Education should be directed to the Dean of the Faculty of Graduate Studies or to the Graduate Advisor of the Faculty of Education.

G. DIPLOMA PROGRAMME IN NATIVE INDIAN LANGUAGES (NON-CERTIFICATE)

All students will register in the same section of the following courses:

Linguistics 220 — Language and Culture

Linguistics 240 — Studies in Indian Languages of B.C.

Linguistics 400 — Field Methods and Techniques in Language Analysis

Education 490 — Principles of Teaching Second Languages

Native Indian Studies 100 and Native Indian Studies 102

(1 term each at Camosun College)

— Administrative and Legal Patterns and Current Problems of Native Indian Communities

Students will register at Camosun College

After admission to the programme, orientation, counselling and general University coordination of the programme will be provided by the Studies of Intercultural Education Office of the Faculty of Education. The terminal diploma, to be offered by the Faculty of Education, will carry no connotation of "certification" as a professional teacher. It will be relevant solely to functions involved in Native Language instruction.

COURSES IN THE FACULTY OF EDUCATION

Unless indicated otherwise, courses begin in September and end in April.

Specific information about course offerings, e.g. instructor, term will be available at Registration. Students registering in a professional year will be provided with prepared timetables.

Courses numbered 300 or above are normally reserved for students registered in third or following years.

Prerequisites may be waived (a) if the student has completed equivalent work, or (b) in other exceptional cases. Consult the Education Advising Centre.

UNDERGRADUATE COURSES

EDUCATION

EDUC 145. (3) General Science

Topics from astronomy, biology, chemistry, geology and physics selected to provide a broad background for the teaching of elementary school sciences. Laboratory exercises will emphasize the process of scientific inquiry. (3-2; 3-2)

EDUC 197. (1 1/2) First-Year Elementary Seminar and School Experience

Consists of a weekly seminar and school experience to be arranged throughout the year by the Student Teaching Office. A two-week post-session practicum may be required.

EDUC 200. (3) Introduction to Educational Psychology

The application of psychological principles to elementary classroom practice. (3-0; 3-0)

EDUC 297. (1 1/2) Pre-Professional Year Elementary Seminar and School Experience

Consists of weekly seminars and school experience to be arranged throughout the year by the Student Teaching Office. A two-week post-session practicum may be required.

EDUC 303. (1 1/2) Introduction to Psychology of Classroom Learning.

An introduction to the psychology of learning in the secondary school.

September-December. Also January-April. (3-0)

***EDUC 305. (3) Psychology of Childhood**

Mental, social, emotional and physical characteristics of pre-school and elementary school pupils, their interests and problems; emphasis upon classroom implications.

Credit cannot be granted for both Education 305 and Education 406. (3-0; 3-0)

EDUC 316. (1 1/2) Verbal Communication

Study of interpersonal verbal skills and processes. Skill practice and analyzed applications to classroom, counselling, family, social work and mental health. (Not open to students with credit for Education 300.)

September-December only. (3-0)

EDUC 317. (1 1/2) Non-verbal Communication

Study of non-verbal interactions: movement, posture, gesture, qualities of voice, and spacing. Analysis of implications in teaching, counselling, family relations, mental health. (Not open to students with credit for Education 300.)

January-April only. (3-0)

EDUC 337. (1 1/2) Evaluation of Student Achievement

The construction of classroom measures; including rating scales, self-reports, check lists, performance tests, essay and objective tests, organization and use of measurement data. (Not open to students with credit for Education 401.) (3-0)

* The professional year is prerequisite to this course.

***EDUC 340. (3) Research and Programme Development in Primary Education**

Trends, issues and research in primary education as the basis for curriculum development, organization, and instruction. (3-0; 3-0)

EDUC 341. (3) Literature in the Elementary School

Survey of children's literature; selection of books for children; scope and sequence in the development of a literature programme in the primary or intermediate grades. Students will specialize according to their option. (3-0; 3-0)

***EDUC 342. (1 ½) Foundations of Reading**

Consideration of the processes and psychology of reading.

September-December only. (3-0)

***EDUC 343. (1 ½) Reading in the School**

Components of a total reading programme: examination, evaluation, and construction of instructional materials; curricular organization.

343A — Reading in the Primary Grades

343B — Reading in the Intermediate Grades

343C — Reading in the Secondary Schools

Prerequisite: Education 342.

January-April only. (3-0)

EDUC 344. (1 ½) Oral Communication and Speech Development in the Elementary School

Factors influencing communication; improvement of oral facility in teacher and pupil; analysis of English sounds and voice characteristics; early recognition of speech problems; classroom activities for speech development.

January-April only. (3-0)

EDUC 345. (3) Selected Topics in General Science

In depth studies of scientific concepts basic to the new elementary school science curricula. (2-2; 2-2)

***EDUC 346. (3) Social Studies in the Elementary School**

The structural character and implication for teaching of the social studies discipline; principles and practices of direct and indirect teaching; sample and patch studies as advanced organizers of resource materials; unit planning and preparation and the evaluation of procedures.

Enrolment in this course is limited.

(Will be offered 1974-75 and alternate years.)

(3-0; 3-0)

***EDUC 347. (1 ½) Foundations of Elementary Language**

A study of the development, scope and sequence of the language of elementary school children including the nature of the listening, speaking and writing processes.

September-December only. (3-0)

***EDUC 348. (1 ½) Language in the Elementary School**

The development of curriculum in the elementary school language programme: a study of methods and materials.

January-April only. (3-0)

EDUC 360. (1 ½) Educational Media

The application of media to education. Communication theory and practical experience in production and utilization of film, photography, audio and video tapes, and classroom audio-visual materials.

September-December only. (3-0)

EDUC 361. (1 ½) Advanced Educational Media

Comprehensive synthesis of audio-visual media, educational television, programmed instruction, and multimedia systems for all levels of education. Laboratory experiences

* The professional year is prerequisite to this course.

in the operation of complex equipment and the preparation of video tapes, sound slides, learning programmes, and single concept films.

Prerequisite: Education 360.

(May not be offered 1974-75.)

(3-0)

EDUC 370. (3) Introduction to Outdoor Education

The major premise upon which this course and its content is based is the belief that there is an urgent need for individuals to re-examine and in many cases look for the first time at the relationship that exists between man and all other living things. Emphasis will be placed on having individuals look critically at the effect man's use of the outdoors has upon the living things he comes in contact with. How can man interact with the outdoors in such a way as to insure its continued existence for use by future generations? By being full participants in many activities it is intended that students will become more aware of the outdoors as well as understand how man can wisely live with his surroundings. Course content will be inter-disciplinary and staffed as such. It is felt that division of content and activities into traditional subject areas is neither possible nor desirable. This course will serve all levels of education students desiring to include the outdoors as part of the learning experience. (2-2; 2-2)

EDUC 371. (1½) Outdoor Recreation

Study of the outdoor environment as an educational medium; organization of outdoor programmes and practical laboratory experiences in camping skills and outdoor recreational pursuits.

Prerequisite: Consent granted through the Advising Centre.

(May not be offered 1974-75.)

(3-0)

EDUC 398. (1½) Third-Year Secondary Seminar and School Experience

A programme of regularly scheduled seminars in which students will receive some instruction in methodology as preparation for visits to secondary school classrooms. A two-week post-session practicum may be required.

***EDUC 402. (1½) Individual Testing**

Theory and practice in the use of individual tests in education. Students will be required to spend three hours per week in the Learning Assistance Centre diagnosing learning problems.

Prerequisite: Education 301 or 337 or consent granted through the Advising Centre.

January-April only. (0-3)

EDUC 403. (1½) Social Psychology of School and Classroom

The application of social learning theory to school and classroom management.

Prerequisite: Education 200 or 303.

January-April only. (3-0)

EDUC 406. (3) Psychology of Adolescence

The physiological, psychological, social, and educational aspects of adolescence.

Credit cannot be granted for both Education 406 and Education 305.

(3-0; 3-0)

***EDUC 407. (1½) The Exceptional Child — Cognitive and Affective Functions**

A consideration of children for whom the intellectual demands of the regular classroom are inappropriate — the gifted, the mentally retarded, the culturally disadvantaged, and the emotionally disturbed. Characteristics and programme modifications. This course is prerequisite to Education 409A, 409C, 409D, 409E.

September-December only. (3-0)

***EDUC 408. (1½) The Exceptional Child — Sensory and Motor Functions**

A consideration of children whose sensory or motor defects or chronic illnesses render the regular school programme inappropriate — the visually or auditorially handicapped, children with orthopedic defects or chronic illnesses limiting activity, cerebral palsy and other neurological deficits. Characteristics and programme modifications.

January-April only. (3-0)

* The professional year is prerequisite to this course.

***EDUC 409A. (1½) Education of the Exceptional Child — the Gifted**

Identification procedures; early school admission and acceleration; setting goals for instruction; effective teaching methods; currently operating programmes.
Prerequisite: Education 407. September-December only. (3-0)

***EDUC 409C. (1½) Education of the Exceptional Child — the Mentally Retarded**

Selection procedures; curriculum modifications; effective teaching methods; currently operating programmes; evaluating programme effectiveness.
Prerequisite: Education 407.
(May not be offered 1974-75.) (3-0)

***EDUC 409D. (1½) Education of the Exceptional Child — the Disadvantaged**

The effect of cultural disadvantages on school performance; special curricula for the disadvantaged; evaluating the effectiveness of the programme.
Prerequisite: Education 407.
(May not be offered 1974-75.) (3-0)

***EDUC 409E. (1½) Education of the Exceptional Child — Emotionally Disturbed**

Identifying emotionally maladjusted children; school consequences of maladjustment; techniques of therapeutic intervention; psycho-educational programmes; school and community resources.
Prerequisite: Education 407. January-April only. (3-0)

EDUC 413. (1½) Mental Health

An examination of the principles of mental health and their application to the classroom.
(Not offered 1974-75.) (3-0)

EDUC 414. (3) Group Processes

Analysis of group decision-making; discovery and discussion methods in group learning; study of group interaction in classrooms, family life, counselling, and mental health. First portion of course is devoted to skill development, second part to analysis, theory and research. (3-0; 3-0)

***EDUC 415 (formerly 415/416). Diagnosis and Remediation of Learning Difficulties**

A consideration of theories and programmes relevant to the causes, correction and remediation of learning difficulties; common tests used in the diagnostic battery, and the interpretation and education implications of test results. Students will be required to spend three hours per week in the Learning Assistance Centre working with children with learning problems. This course is open to students on the elementary programme only. (3-3; 3-3)

EDUC 417. (3) Helping Relationships (formerly Introduction to Counselling)

Study of helping relationships in the classroom, counselling, family life, and mental health. Theories of personal effectiveness; analysis and practice of effective relating skills. The course is conducted as a participative seminar and includes skill-building laboratory experience. (3-0; 3-0)

***EDUC 420. (3) Philosophy of Education**

An introductory course dealing with the philosophical foundations of education and their implications for curriculum and instruction in the schools. (3-0; 3-0)

***EDUC 423. (3) History of Education**

Development of educational theory and practice from the time of ancient Greece to the present. (3-0; 3-0)

* The professional year is prerequisite to this course.

EDUC 425. (3) Anthropology and Education

Theory and perspectives from cultural anthropology relevant to the processes of education and operations of schools. (3-0; 3-0)

EDUC 427. (3) Sociology of Education

The social structure of western civilization and its significance for education. (Offered Summer Session 1975 and alternate summer sessions.) (3-0; 3-0)

EDUC 430. (1½) The Organization and Administration of Education in British Columbia

Introduction to structure and process of the B.C. School System. Teacher-administration relationships. Emerging trends and controversial issues in school organization and practice. Value problems in the profession. School law and legal requirements. Public and professional relationships. September-December. Also January-April. (3-0)

***EDUC 431. (1½) An Introduction to Educational Administration**

The meaning and purpose of Educational Administration. Concepts related to the theory, tasks, authority, processes of Educational Administration. The Administrator — characteristics, qualifications, selection, preparation. January-April only. (3-0)

EDUC 432. (1½) Value Education

An examination of the nature of value, the developmental and psychometric aspects of values, and some current practices in value education in schools. January-April only. (3-0)

EDUC 437. (1½) Measurement and Evaluation in Education

Reliability and validity of educational measures; the measurement of aptitudes and affect; diagnostic, formative and summative evaluation; problems and issues in educational evaluation. (Not open to students with credit for Education 401.) Pre- or Co-requisite: Education 337. (3-0)

EDUC 438 (formerly 302). (1½) Use of Group Tests

Study of the purposes, uses, administration, scoring, and interpretation, of group tests commonly used in schools. Includes tests of aptitudes, achievement, interests, and personality. Prerequisite: Consent granted through the Advising Centre. (Not offered 1974-75.) (3-0)

EDUC 439. (1½) Introduction to Quantitative Research Methods in Education

An introduction to research design and statistical inference. The major purpose is to prepare teachers to read and interpret the research literature in education. Prerequisite: Education 337. Pre- or Co-requisite: Education 437. (Not offered 1974-75.) (3-0)

***EDUC 440. (1½) Early Childhood Education**

An introduction to the philosophy underlying pre-school education. Current trends, issues, and research related to the developmental needs and behaviours of children under six years of age. September-December only. (3-0)

***EDUC 441. (1½) Research and Programme Development in Pre-School Education**

Trends, issues, and research in pre-school education as a basis for curriculum development, organization, and instruction. Prerequisite: Education 440. January-April only. (3-0)

* The professional year is prerequisite to this course.

***EDUC 442. (1½) Corrective Reading Instruction**

Classroom diagnosis and treatment of reading difficulties; prevention of reading disabilities; corrective classroom procedures.

Prerequisite: Education 342.

January-April only. (3-0)

***EDUC 443. (1½) Mathematics Curriculum in the Elementary School**

Principles of curriculum development and their application to elementary school mathematics; history of mathematics education; psychology of mathematics learning; research on elementary mathematics curriculum and instruction.

Prerequisite: Education 744 or Mathematics 203 or equivalent.

September-December only. (3-0)

***EDUC 444. (1½) Mathematics Instruction in the Elementary School**

Teaching strategies; learning activities; classroom organization; instruction materials, their function and use; laboratory methods.

Prerequisite: Education 744 or Mathematics 203 or equivalent.

January-April only. (3-0)

***EDUC 445. (3) Science Education**

The nature of scientific inquiry, studies of the research in science teaching, comparative curricula, and contemporary thinking in science education. Laboratory work in the preparation and use of experimental materials.

(Subject to minimum enrolment.)

(3-3; 3-3)

***EDUC 450. (3) Programme Development in Education**

Trends, issues and research in education as the basis for curriculum development, organization, and instruction.

450A — Intermediate

(3-0; 3-0)

EDUC 480. (1½-3) Contemporary Issues in Education

Current topics and developments in education, with particular consideration of their relevance to the schools of British Columbia.

(Not offered 1974-75.)

(3-0) or (3-0; 3-0)

†EDUC 490. (3) Principles of Teaching Second Languages

The application of linguistic principles in teaching second languages including contrastive language analysis, methods, materials; gradation, presentation, repetition, and measurement in lesson development. Attention given to automated language teaching.

Prerequisite: One of Linguistics 100, 210, 360, 390.

(Not offered 1974-75.)

(3-0; 3-0)

EDUC 494. (1½) Directed Studies

Research projects, directed reading, or additional course work in a specified area. All students must obtain written approval from the Education Advising Centre before registering in this course. Permission will not normally be given for more than three units of directed studies courses. The following areas have been approved:

494A Art Education

494B Helping Professions

494C Drama in Education

494D Early Childhood Education

494E Educational Administration

494F Educational Foundations

494G Educational Media

* The professional year is prerequisite to this course.

† Approved for elective credit in the Faculty of Arts and Science.

- 494H Educational Psychology
- 494J Human Development
- 494K Language Arts — Corrections & Remediation
- 494L Language Arts — Language
- 494M Language Arts — Literature
- 494N Language Arts — Reading
- 494P Learning
- 494Q Library Education
- 494R Mathematics Education
- 494S Measurement
- 494T Music Education
- 494U Outdoor Education
- 494V Physical Education
- 494W Remedial
- 494X Science Education
- 494Y Social Studies
- 494Z Special Classes

September-December only. (3-0)

EDUC 495. (1 ½) Directed Studies

(Description as for Education 494)

January-April only. (3-0)

***EDUC 496. (1 ½) Practicum in Specified Areas of Teaching**

Supervised practice in teaching kindergarten and/or children who learn inefficiently or ineffectively in regular classroom settings. A post-session practicum in May normally will be required.

- 496A Teaching the gifted child.
Pre- or co-requisite: Education 409A
- 496B Teaching the kindergarten child
Pre- or co-requisite: Education 441
- 496C Teaching the mentally retarded
Pre- or co-requisite: Education 409C
- 496D Teaching the culturally disadvantaged learner
Prerequisite: Education 409D
- 496E Teaching the emotionally disturbed child
Pre- or co-requisite: Education 409E

Students anticipating enrolment in Education 496 should make early enquiry to the Education Advising Centre to determine availability of supervisory personnel and school placement. Approval of the Education Advising Centre is required prior to enrolment. In general, course activities require a time commitment of one-half day per week throughout the second term.

EDUC 498. (1 ½) Fourth-Year Secondary Seminar

A programme of seminars and school experiences prerequisite to the Education 750-769 sequences. A two-week post-session practicum may be required.

Prerequisite: Education 398.

EDUC 701. (1) Curriculum and Instruction in Art

A study of the curriculum organization and techniques of instruction in elementary art. (2-0; 2-0)

EDUC 705. (1) Basic Concepts in Music

Introductory course in fundamentals, methods, and materials for elementary classroom teachers. Designed for students with little or no background in music.

(1-1; 1-1)

* The professional year is prerequisite to this course.

EDUC 706. (1) Music for Classroom Teachers

Methods, materials, and philosophy of music education for elementary classroom teachers. Designed for students who have had some previous musical experience, for example, private lessons or participation in choirs or bands. (1-1; 1-1)

EDUC 707. (1) Music for Classroom Teachers — Advanced

Methods, materials, and philosophy of music education for elementary classroom teachers. Designed for students with considerable musical background, for example, the A.R.C.T. diploma. (Not offered 1974-75.) (1-1; 1-1)

**EDUC 742. (2) Curriculum and Instruction in the Language Arts
(Primary or Intermediate Grade Emphasis)**

A study of the curriculum organization and techniques and materials of instruction in language arts. (3-0; 3-0)

EDUC 744. (1½) Curriculum and Instruction in Elementary Mathematics

A study of the curriculum organization and techniques of instruction in elementary mathematics. (1-1; 1-1)

EDUC 745. (1) Curriculum and Instruction in Elementary Science

A study of the curriculum organization and techniques of instruction in elementary science. September-December. Also January-April. (1-2)

EDUC 746. (1) Curriculum and Instruction in Elementary Social Studies

A study of the curriculum organization and techniques of instruction in elementary social studies. September-December. Also January-April. (2-2)

EDUC 747. (1) Curriculum and Instruction in Elementary Physical Education

A study of the curriculum organization and techniques of instruction in elementary physical education. September-December. Also January-April. (2-2)

EDUC 750-769. Curriculum Instruction and Practicum in Secondary School Subjects

Open to students who have completed the prescribed teaching area or who have special permission of the Education Advising Centre.

A two-week practicum (orientation period) is required at the beginning of the school year.

EDUC 750. (3-4½) Art

EDUC 753. (3-4½) English

EDUC 754. (3-6) Second Language

Students with teaching areas in French, German, Latin, Russian, and Spanish will enrol for this course. Those who present one such teaching area will be credited with 3 units, and two such areas, 6 units.

EDUC 755. (3-4½) Geography

EDUC 757. (3-4½) Guidance

EDUC 758. (3-4½) History

EDUC 761. (3-4½) Mathematics

EDUC 762. (3-4½) Music

EDUC 764. (3-4½) Physical Education

EDUC 767. (3-4½) Theatre

EDUC 769. (3-6) Science

Students with teaching areas in biology, chemistry, physics, or general science will enrol for this course. Those who present one such teaching area will be credited with 3 units, and two such areas, with 6 units.

EDUC 797. (3) Seminar and Elementary Student Teaching

For students registered in the professional year, elementary programme. A two-week practicum is required at the beginning of the school year.

ART EDUCATION**A E 100. (3) Art Education**

A study of the growth and development of Art Education, classroom management, teaching techniques in art as related to elementary and/or secondary level. (3-0; 3-0)

A E 300. (3) Art Education (Advanced)

Programme planning and laboratory investigation of art media involved in handling painting, design, graphics and other two-dimensional problems at the elementary and/or secondary level.

Prerequisite: Art Education 100 or Education 701. (3-0; 3-0)

A E 301. (3) Three-Dimensional and Crafts

Teaching methods and techniques involving carving, modelling, constructions, and other three-dimensional problems and crafts related to elementary and/or secondary level.

Prerequisite: Art Education 100 or Education 701. (3-0; 3-0)

***A E 302. (3) Drawing and Painting in the Classroom**

Development of sensory perception; exploration of visual imagery found in both the natural and manmade environment; expression of an emerging personal visual imagery using drawing, painting, and projected light techniques. Emphasis throughout will be on personal experience and expression with qualifying discussion on its application to leadership in art. This may include work with children and a parallel study of the visual development of children.

(May not be offered 1974-75.) (3-0; 3-0)

A E 303. (1½ or 3) Ceramics in the Classroom

An introductory course in ceramics for elementary and secondary teachers. Discussion and practice will include all aspects of ceramics as these relate to human development and classroom practice.

Prerequisite: Art Education 100 or Education 701. (3-0) or (3-0; 3-0)

A E 304. (1½) Crafts in the Classroom

An introductory course in crafts for elementary and secondary teachers; a practical, laboratory investigation of various craft media which can be used in the school system.

Prerequisite: Art Education 100 or Education 701. (2-0; 2-0)

***A E 400. (3) Special Study**

This will include a study of a particular field of Art Education carried out under the direction of a member of Faculty. A lecture-demonstration study of the growth and development of children in relation to creative expression, including the philosophy of art education.

Prerequisites: Art Education 300 and 301.

(May not be offered 1974-75.) (3-0; 3-0)

* The professional year is prerequisite to this course.

LIBRARY EDUCATION

LE 432 (formerly one-half of 431). (1 ½) The School Library and the Teacher

The library as a vital part of the teacher's programme, its philosophy and services. For all teachers — elementary and secondary. January-April only. (3-0)

***LE 433 (formerly one-half of 431). (1 ½) The School Librarian**

The role of the school librarian, administration of a school library, staffing, supervision. (Not offered 1974-75.) (3-0)

***LE 434 (formerly one-half of 430). (1 ½) Elementary School Library Materials**

The evaluation, selection and acquisition of learning materials in all media formats, etc. (Offered in 1974-75 and alternate years.) (3-0)

***LE 435 (formerly one-half of 430). (1 ½) Cataloguing and Classification for School Libraries**

The principles and practice of basic classification systems and cataloguing rules applied to the needs of the school library. (Offered in 1974-75 and alternate years.) (3-0)

MUSIC EDUCATION

ME 105. (1 ½) Music Fundamentals for Classroom Teachers

Introduction to music for schools. This course will normally be followed by Music Education 106 in the second term. (Students with exceptionally strong musical backgrounds may not be required to take this course.) September-December only. (3-0)

ME 106. (1 ½) Elementary School Music Materials and Activities

Survey of texts and materials for use in the elementary classroom music programme. Use of materials in a sequential programme involving singing, listening, playing, rhythmic and creative activities.

Students with a considerable music background may be permitted to enter Music Education 106 without the regular Music Education 105 prerequisite.

Co- or Prerequisite: Music Education 105 or equivalent. January-April only. (3-0)

ME 207 (formerly 107). (1 ½) Educational Materials for Listening

Continuation and development of classroom music activities with special emphasis on listening experiences.

Prerequisite: Music Education 106.

January-April only. (3-0)

ME 208 (formerly 108). (1 ½) Piano Class for Classroom Teachers

Development of piano keyboard skills useful in classroom music.

January-April only. (3-0)

ME 209. (1 ½) Creativity in Music Education

The relationship of theories of creative behaviour to classroom music teaching. Seminars and workshops.

Prerequisite: Music Education 106.

(May not be offered 1974-75.)

(3-0)

ME 300 (formerly 100). (1 ½) The Teaching of Choral and Classroom Singing

Materials and rehearsal techniques for use with school choral activities.

September-December only. (3-0)

ME 302. (1 ½) Music in Early Childhood

A survey of developmental implications as they pertain to the musical growth of the young child. Current Music Education methods and materials will be studied, and laboratory experiences will be included. (3-0)

* The professional year is prerequisite to this course.

ME 304. (1 1/2) Management of School Bands and Orchestras

Initiating and maintaining instrumental programmes in the schools. Emphasis will be on field experiences.

ME 306. (1 1/2) Music Activities in the Elementary School (Advanced)

A study of modern methods, materials, and objectives pertaining to the teaching of music in elementary schools.

Prerequisite: Music Education 106.

(May not be offered 1974-75.) (3-0)

ME 307. (1 1/2) Music Activities in the Secondary Schools (Advanced)

A study of modern methods, materials, and objectives pertaining to the teaching of music in secondary schools.

Prerequisite: Consent granted through the Advising Centre.

(Not offered 1974-75.) (3-0)

ME 308. (1 1/2) Piano Class for Classroom Teachers (Advanced)

Continuation of development of piano keyboard skills useful in classroom music.

Prerequisite: Music Education 208 or equivalent. September-December only. (2-2)

ME 309. (1 1/2) Foundations of Music Education

Implications of philosophical, sociological and psychological principles for music education.

Pre- or Corequisite: Music Education 306 or 307. January-April only. (3-0)

ME 400. (3) Special Study in Music Education

An individualized study of a particular field in music education carried out under the direction of a member of Faculty. Regular seminars will be included.

Prerequisite: Consent granted through the Advising Centre.

(May not be offered 1974-75.) (3-0; 3-0)

PHYSICAL EDUCATION

PE 100. (0) Year 1 — Basic Skills in Physical Education Activities (1 1/2 fee units)

Proficiency in the skills in the following areas: areas 1, 2, and 3; one of the activities in each of areas 4, 5, and 6; five of the activities in area 7 for men and four in area 7 for women.

- Area 1 Swimming
- Area 2 Track and Field
- Area 3 Gymnastics
- Area 4 Badminton, Tennis
- Area 5 Dance
- Area 6 Curling, Golf, Archery
- Area 7 (Men) Softball, Basketball, Soccer, Volleyball, Rugby, Field Hockey, Wrestling
- Area 7 (Women) Softball, Basketball, Soccer, Volleyball, Field Hockey or choice of one activity in Areas 4 or 6 that has not been taken

- NOTES: 1. Students may be exempted from Physical Education 100, 101, or part thereof, by demonstrating proficiency in a skills test given during the first week of lectures. Students are expected to complete the courses in the required basic skills in the first two years; most students should plan to spend a minimum of three hours per week in these courses.
2. Not all activities are offered every year.

PE 101. (0) Year 2 — A Continuation of Physical Education 100 (Year 1) (1 1/2 fee units)

PE 141. (1½) Introductory Human Anatomy

Lecture and laboratory orientation to human anatomy. Emphasis on the basic anatomical structures used in locomotion and fundamental motor skills. Reference made to the structural components of the circulatory, digestive, excretory and endocrine systems. Labs include examination and dissection of mammalian specimens, and extensive use of human anatomical charts, models and stereoscopic slides.

September-December. Also January-April. (2-2)

PE 142. (1½) Human Potential

An introduction to the physical, emotional and social aspects of human growth and human interpersonal relationships.

January-April only. (3-0)

PE 143. (1½) Introduction to Physical Education

Orientation to the profession; the aims and objectives of physical education, relationship of physical education to education, athletics, health, recreation, and safety education.

September-December. Also January-April. (3-0)

PE 149. (3) Physical Education in Elementary Schools

Content of the physical education programme in the elementary school; principles and techniques of instruction; intramural organization. Reasonable performance of skills by student is required and a percentage of the grade is based on performance.

NOTE: Physical Education 149 is not acceptable for credit on a physical education teaching area. Any student who has elected to do Physical Education 149 and then is accepted into the physical education teaching area cannot count the credit for this course toward his degree. (2-2; 2-2)

PE 151. (1½) Theory and Practice in Fundamental Movement

A study of basic movement skills and basic principles of movement. Practical aspects include rhythmic, tumbling skills, and movement education.

September-December. Also January-April. (2-2)

PE 241. (3) Introductory Human Physiology

Lecture and laboratory orientation to human function. Emphasis on basic bodily processes used in production of energy and homeostasis. Labs include introduction to techniques used to assess status of selected physiological parameters, e.g. nerve conduction, indirect calorimetry, and cardiopulmonary function.

Pre- or Corequisite: Physical Education 141. (2-2; 2-2)

PE 341. (1½) Biomechanics (formerly Kinesiology)

Analysis of human movement and performance. The relationship of the laws of physics concerning motion, force, inertia, levers, etc., to muscular and mechanical analysis of motor skills.

Prerequisite: Physical Education 241. January-April only. (3-0)

PE 342. (1½) History of Physical Education (formerly History and Principles of Physical Education)

Interpretative study and analysis of physical education and sport through their historical development; current trends, social and cultural implications; relationship to education.

September-December only. (3-0)

PE 343. (1½) Recreation in School and Community

Nature of recreation; its function and scope; school-community administration and programmes; leadership in schools, camps, and communities; inter-relationship of these programmes.

January-April only. (3-0)

PE 344. (1½) Core and Prevention of Athletic Injuries

Training techniques, protective equipment and first strapping for the prevention of athletic injuries; emergency procedures and first aid practices for the treatment of athletic injuries; care and re-training of injured areas.

Prerequisite: Physical Education 241. September-December only. (3-0)

PE 345. (1½) Physical Education in Early Childhood

The development of motor behaviour of children in the pre-school and early school years; activities and designed use of equipment for developing basic motor skills; a study of various curriculum designs for this age group.

Prerequisite: Education 747 or PE 149 or 3 units of PE teaching area.

(May not be offered 1974-75.) (3-0)

PE 350. (1½) Theory and Techniques of Teaching Skills in Team Games

Methods of teaching softball, basketball, soccer, field hockey, volleyball, rugby.

Prerequisites: Physical Education 100, 101, 151. September-December only. (3-0)

PE 441. (1½) Exercise Physiology

The anatomical and physiological adaptation of the human body to exercise and training; the relationship of exercise to hypokinetic diseases; nutrition of the athlete.

Prerequisite: Physical Education 241. September-December only. (3-0)

PE 442. (1½) Motor Learning

Implications of perceptual-motor development for learning; psychology of motor-skill acquisition. January-April only. (3-0)

PE 443. (1½) Organization and Administration of Physical Education

Budget and finance; personnel; facilities, equipment and supplies; scheduling; public relations; organization and management of physical education and athletics.

January-April only. (3-0)

**PE 444. (1½) Measurement & Evaluation in Physical Education
(formerly Evaluation in Health and Physical Education)**

Use of tests and measurements in physical education; principles of test construction; test administration and interpretation of results; use of evaluating equipment in a variety of physical education tests. September-December only. (3-0)

PE 445. (1½) Developmental and Adaptive Physical Education

Methods of identifying and evaluating the atypical child and application of a physical education programme to his needs; case-study techniques, developmental programmes; basic therapeutic exercise techniques. September-December only. (3-0)

PE 446. (1½) Physical Education in the Intermediate Grades

Acquisition of motor skills of children in the Intermediate Grades. Methods of instruction to develop basic motor skills; development of resource units; the role of outdoor education; curriculum construction and organization.

Prerequisite: Education 747 or PE 149 or 3 units of P.E. teaching area.

(May not be offered 1974-75.) (3-0)

PE 450. (1½) Theory and Techniques of Teaching Skills In Individual Activities

Methods of teaching minor games, swimming, badminton, tennis, wrestling, dance, track and field, gymnastics.

Prerequisites: Physical Education 100, 101, 151. January-April only. (3-0)

PE 460. (1½) Advanced Skills: Coaching and Officiating

In-depth study of two areas selected by the student. Advanced skill level, knowledge and ability to coach and officiate will be required in the two areas. Electives: badminton, basketball, field hockey, soccer, volleyball, track and field, dance, gymnastics, swimming, softball, tennis, rugby, wrestling.

Prerequisites: Physical Education 100, 101, 151. Candidates are asked to consult the Physical Education Section before registering. (1-1; 1-1)

GRADUATE COURSES

Students should consult the Graduate Advisor of the Faculty of Education concerning the courses offered in any particular year; such offerings will depend upon student programme needs and the availability of instructors.

Further information about programmes, courses, and prerequisites is given in a mimeographed bulletin *Graduate Studies in Education*.

- EDUC 500. (1 ½) Learning Principles
- EDUC 501. (1 ½) Theory of Measurement
- EDUC 502. (1 ½) Seminar in Educational Evaluation
- EDUC 503. (1 ½) Verbal Learning
- EDUC 504. (1 ½) Psychology of Conceptual Learning
- EDUC 505. (1 ½) Basic Concepts in Human Development
- EDUC 506. (1 ½) Selected Topics in Human Development
- EDUC 507. (1 ½) Psychology of Individual Differences
- EDUC 508. (1 ½) Theories of Learning
- EDUC 509. (1 ½) Psychology of Classroom Learning
- EDUC 510. (1 ½) Psychology of Group Differences
- EDUC 512. (1 ½) Measurement in the Affective Domain
- EDUC 515. (1 ½) Advanced Diagnosis of Learning Disabilities
Prerequisite: Education 402, 415, 416; or consent of instructor.
- EDUC 516. (1 ½) Advanced Remediation of Learning Disabilities
Prerequisite: Education 515, or consent of instructor.
- EDUC 517. (3) Practicum in Counselling
- EDUC 518. (1 ½) Seminar in Counselling Psychology
- EDUC 519. (1 ½) Advanced Seminar in Counselling Psychology
- EDUC 520. (3) Seminar in Philosophy of Education
- EDUC 521. (3) Educational Classics
- EDUC 531. (1 ½) Administration of Public Education in Canada
- EDUC 532. (1 ½) Administration of the Educational Programme
- EDUC 533. (3) Concepts in Administrative and Supervisory Behaviour in Education
- EDUC 534. (1 ½) Educational Finance

EDUC 540. (1 1/2) Research in Curriculum and Instruction in the Elementary Grades

Students may enrol in more than one of the areas listed below at 1 1/2 units each.

- 540A Language
- 540B Reading
- 540C Social Studies
- 540D Mathematics
- 540E Science
- 540F Physical Education
- 540G Music

EDUC 541. (1 1/2) Research in Curriculum and Instruction in the Secondary Grades

Students may enrol in more than one of the areas listed below at 1 1/2 units each.

- 541A English
- 541B Geography
- 541C History
- 541D Mathematics
- 541E Science
- 541F Physical Education
- 541G Music

EDUC 542. (3) Processes of Reading

EDUC 556. (1 1/2) Basic Concepts of Curriculum Development

EDUC 557. (1 1/2) Applied Concepts of Curriculum Development

EDUC 558. (1 1/2) Development and Implementation of the Curriculum in a Specific Area

Students may enrol in more than one of the areas listed below at 1 1/2 units each.

- 558A Language
- 558B Reading
- 558C Social Studies
- 558D Mathematics
- 558E Science
- 558F Physical Education
- 558G English
- 558H Geography
- 558J History
- 558K Music

EDUC 560. (1 1/2) Statistical Methods in Education

EDUC 561. (1 1/2) Methods in Educational Research

EDUC 562. (1 1/2) Advanced Statistical Methods in Education

EDUC 570. (3) Motor Learning

EDUC 572. (3) Advanced Exercise Physiology

EDUC 573. (3) Seminar, Selected Topics in Physical Education

EDUC 590. Special Problems (credit to be determined)

May be offered in Areas A through Z (excluding I and O) for credit towards a Master's degree. The student must consult with his instructor about the area of his individual study, and the graduate advisor, prior to registering in EDUC 590.

EDUC 598. Project (credit to be determined)

EDUC 599. Thesis (credit to be determined)

EDUC 617. Internship in Counselling Psychology (credit to be determined)

EDUC 618. Doctoral Seminars in Counselling Psychology (credit to be determined)

EDUC 690. Special Problems (credit to be determined)

May be offered in Areas A through Z (excluding I and O) for credit toward a Doctoral degree. The student must consult with his instructor in the area of his individual study, and the Graduate Advisor, prior to registering in EDUC 690.

EDUC 699. Ph.D. Dissertotion (credit to be determined)

FACULTY OF FINE ARTS

Peter L. Smith, B.A. (*Brit. Col.*), M.A., Ph.D. (*Yale*), Dean of the Faculty.

The Faculty of Fine Arts comprises the Departments of History in Art, Music, Theatre, and Visual Arts, and offers courses leading to the degree of Bachelor of Arts, in History in Art; Bachelor of Music; Bachelor of Fine Arts with majors in Theatre and in the Visual Arts; Bachelor of Fine Arts with a general programme in Visual Arts.

Certain courses in the Faculty of Fine Arts carry unrestricted credit in the Faculty of Arts and Science, and other courses may be chosen in keeping with the free elective regulation of that Faculty.

Students in the Faculty of Education may register for credit in any course offered by the Faculty of Fine Arts, provided that space is available and that they have the prior approval of the Education Advising Centre.

Graduate work is offered in Music and Theatre and History in Art. (See section of calendar on Faculty of Graduate Studies for details of programmes and degrees).

Qualifications for Admission

See pages 11-18 inclusive of the calendar. See additional requirements under departmental entries for Music, Theatre, and Visual Arts.

General Regulations

Calendar regulations governing registration fees, and academic advancement (see pages 19-37), apply to all students registered in the Faculty of Fine Arts. Special regulations are set out under the Departmental offerings.

Academic Advice

Students entering the Faculty for the first time should consult departmental offices for advice about course planning. If possible, this should be done before registration week.

Questions about academic planning in Fine Arts that do not relate to any specific departmental programme can be referred to the Dean's Office in MacLaurin 192.

DEPARTMENT OF HISTORY IN ART

Alan A. Gowans, M.A. (*Tor.*), M.F.A., Ph.D. (*Princeton*), Professor and Chairman of the Department.

Siri Gunasinghe, B.A. (*Ceylon*), D.U. (*Paris*), Associate Professor.

John C. Freeman, B.A. (*Harpur*), M.A. (*Delaware*), Assistant Professor.

Richard K. Morris, B.A. (*Cantab.*), Ph.D. (*London*), Assistant Professor. (Leave of absence 1974-75.)

S. Anthony Welch, B.A. (*Swarthmore*), M.A., Ph.D. (*Harvard*), Assistant Professor.

Martin J. Segger, B.A., Dip. Ed. (*U.Vic.*), Visiting Lecturer.

Philip R. Ward, F.R.S.A., Part-time Lecturer.

PROGRAMMES LEADING TO THE DEGREE OF B.A.

The history of art is a specialized branch of historical study, differing from history proper in that, instead of relying primarily on the interpretation of written documents, it interprets architecture, painting, furniture, sculpture and other arts as evidence of how past generations lived and thought. It follows that history in art is at once a specialized discipline, demanding particular knowledge about historical art as well as ability to read its "language," and the broadest of all humanistic studies; full interpretation of historic art requires study not only of cognate arts such as literature and music and drama, but also of many related disciplines ranging from social sciences to theology and aesthetics. No undergraduate programme could hope to offer an entirely adequate background in all these areas, and students should understand that the B.A. degree in History in Art represents only a sound foundation for further growth toward fuller awareness and deeper understanding of history as revealed in art, towards that "wisdom" which, as T. S. Eliot once declared, "educational institutions cannot teach because it cannot be learnt in the time or wholly in such surroundings, but which they can teach us to desire, which they can teach us how to go about acquiring." Fortunately, because art and architecture in some form surround everyone everywhere, the learning process can and should proceed through life for graduates in this field as in no other, whether or not they go on to formal graduate school.

Within these limitations, however, the Department's Programme of study is intended to make this foundation as broad as feasible, its wide range of electives providing at least an opportunity to sample the scope of possibilities within the discipline.

To graduate as a B.A. majoring in history in art students require 21 units (seven courses) in history in art, plus 39 units (13 courses) of free electives. The department also requires students to pass a reading knowledge test in a language other than their own. This test will be administered by the department at any time, on the student's request. Should students take formal courses in a foreign language in order to pass this test, two of them (6 units) may count as free electives towards the degree.

An integral part of the History in Art programme will be the John and Katharine Maltwood Memorial Museum at Royal Oak, dedicated to study of the Arts and Crafts movement from William Morris to the 1920's in all countries and media, especially architecture and furniture. With a specialized library and seminar facilities, work in its collections will give students a chance to work directly with materials and have first-hand experience in the operation of a University museum.

B.A. PROGRAMME IN HISTORY IN THE ARTS

In addition to the above major programme, there is offered under the department's aegis the following programme of History in the Arts, offering a wider and interdisciplinary approach to the study of history:

4 of any courses currently offered by the Department of History in Art

4 of any courses currently offered by the Department of Music, in the area of Music History and Musicology

4 of any courses currently offered by the Department of Theatre in the area of Theatre History (recommended courses: Theatre 310, 311, 312, 370)

2 courses to be chosen among the following: History 238, 240, 400

2 courses to be chosen among the following: Classical Studies 100, 340, Liberal Arts 305

4 free electives

Language requirement to be in accordance with the History in Art policy.

COURSES

NOTE: Firm decisions on what courses the Department is in a position to offer cannot always be made in time for announcement in the Calendar. Students are therefore advised to check with the Department by 'phone or otherwise before electing senior courses especially.

***H A 120. (3) Language of History in Art**

A theoretical course designed to provide an introduction to the understanding of art as evidence for history, and to prepare the student for qualified judgment of traditional and contemporary art forms. Preference in registration given to First and Second Year students.

Members of the Department.

(2-0-1; 2-0-1)

***H A 221. (3) History of Christianity in Art**

A broad survey of the major artistic and architectural monuments of Christianity from the Early Christian works in Southern Europe, North Africa, and the Near East, through the Middle Ages and the Reformation period, to late manifestations in the Baroque & Gothic Revival styles: the works of the missionary expansion in America, Asia, and Africa will also be covered. The material will be considered primarily in its symbolic and iconographic contexts.

(3-0; 3-0)

***H A 230. (3) Introduction to the History of India in Art**

A study of major monuments of art and architecture in the Indian subcontinent from early times to the present day, in the context of historic Indian thought and civilization.

Dr. Gunasinghe.

(3-0; 3-0)

***H A 315. (3) Ancient History in Art**

An introduction to ideas and life-styles, from prehistoric times to c.300 A.D., through arts, artifacts, and architecture from all parts of the world.

Mr. Freeman.

(3-0; 3-0)

***H A 325. (3) Medieval History in Art**

An introduction to the art and architecture of medieval Europe, with particular emphasis on the stylistic analysis of monuments and monumental art in the Romanesque and High Gothic periods. Reference will also be made, when occasion permits, to the arts of other civilizations in this period.

(3-0; 3-0)

***H A 331. (3) Early Buddhist Art**

A broad survey of major monuments of the early schools (Theravada) of Buddhism. The course will examine the beginnings of Buddhist art in India and its expansion in Ceylon, Burma, Thailand, Indochina and Indonesia.

(3-0; 3-0)

***H A 340. (3) Renaissance and Baroque Art in Western Europe**

The evolution of art and architecture as the expression of ideas from ca. 1400-1750, with special emphasis on the art of "Old Masters" such as van Eyck, Ghiberti, Dona-

*Approved for elective credit in the Faculty of Arts and Science.

tello, van der Weyden, Leonardo, Raphael, Michelangelo, Titian, Bernini, Rembrandt, etc.

Mr. Segger. (3-0; 3-0)

H A 351. (3) Medieval Islamic Art

An intensive study of the art and architecture of the Islamic World (Spain, North Africa, Egypt, The Near East, Turkey, Iran, and India) from the 7th century to the Mongol Invasions in the 13th century. Special attention will be paid to wider cultural problems in the history, philosophy, religion, and literature of Muslim peoples and to the interrelationships of Islam, Byzantium, and Latin Christendom.

Texts: O. Grabar, *The Formation of Islamic Art*; K. A. C. Creswell, *A Short Account of Early Muslim Architecture*.

Dr. S. A. Welch. (3-0; 3-0)

***H A 353. (3) Islam in Art After 1250**

This course will deal in detail with the major later Islamic cultures of Turkey, India, and Iran. It will also concern itself with the art and architecture of Muslim peoples in Spain, North Africa, the Middle East, and Central Asia. (3-0; 3-0)

***H A 360. (3) Pointing Since 1750**

An examination of the development in painting over the last 200 years with special emphasis on the changing concepts of what art is and what artists do in and for society. The parallel developments in sculpture will be considered. (3-0; 3-0)

***H A 362. (3) Western Art in the 20th Century**

A survey of painting, sculpture, architecture, and allied arts from the turn of the century to the present day. The course will cover Expressionism, Cubism, Surrealism, and other major developments and will include a study of contemporary Canadian developments. (3-0; 3-0)

***H A 380. (3) Architecture since 1750**

Basic developments in the theory and practice of architecture in Western Europe, Canada and U.S.A. over the last 200 years, with special emphasis on architecture as the expression of social, economic and religious ideas. (3-0; 3-0)

***H A 390. (3) World History in Art (formerly Language of History in Art)**

This course affords an opportunity for Third- or Fourth-Year students to elect a basic survey of history in art on a level appropriate to their maturity. Emphasis will be on history horizontally structured across the world in given epochs, rather than on line-of-progress, using as data arts and artifacts interpreted in terms of social function.

Dr. Gowans. (3-0; 3-0)

***H A 420 (formerly 320). (3) Special Problems in the Area of Ancient & Medieval History in Art**

(3-0; 3-0)

***H A 430. (3) Art of the Far East**

A survey of the arts of China, Korea, and Japan with special emphasis on the role of Buddhism in their development. The course will examine the beginnings of Mahayana Buddhist art in India and its expansion through Central Asia to the Far East.

Dr. Gunasinghe. (3-0; 3-0)

***H A 441. (3) Special Studies in the Renaissance Tradition**

Specialized aspects of painting, sculpture and architecture in Europe from 1300-1500, or later manifestations of the tradition then established. (3-0; 3-0)

*Approved for elective credit in the Faculty of Arts and Science.

***H A 450. (3) Special Studies in Islamic Art and Civilization**

This course will involve intensive study of some special aspect or area of Islamic civilization. Different material will be offered each year, depending upon student needs. For 1974-75, this course will deal with Islamic Manuscript Painting.

Dr. Welch.

(3-0; 3-0)

***H A 481. (3) History of Architecture in North America**

Study of architectural developments in Canada and U.S.A. from the 17th century to the present, with special emphasis on interiors and furniture, and the expression of distinctively North American cultural attitudes.

Mr. Freeman.

(3-0; 3-0)

H A 485. (3) Conservation of Antiquities

Care and maintenance of museum materials and/or historic architecture. Causes of damage and decay; museum environment; handling, storage, and preservation; principles of critical examination and historical evaluation; cleaning and repair. Depending on instructor and areas covered, and with departmental permission, this course may be taken more than once. Usually, but not necessarily, involves field work.

This course is given by Mr. Philip Ward, Chief Conservator, British Columbia Provincial Museum. (lecture vs. laboratory hours available).

***H A 490. (3) Directed Studies**

This course may be taken more than once, in different fields, at the discretion of the Department.

Members of the Department.

GRADUATE COURSES

H A 501. (3) Problems in History of Art History

An examination of how the discipline of art history developed, as shown in changing approaches to diverse classic or standard problems of identity and interpretation over several generations.

(3-0; 3-0)

H A 503. (3) Special Problems of East-West Relationships

Parallels and contrasts among the arts of Europe, Islam, India, China, Japan, America, etc. in selected epochs of history.

(3-0; 3-0)

H A 505. (3) Directed Readings

Studies of history in art through selected readings, supervised by the staff.

H A 599. (9-15) Thesis

*Approved for elective credit in the Faculty of Arts and Science.

DEPARTMENT OF MUSIC

- Phillip T. Young, B.A. (*Bowdoin*), Mus.M. (*Yale*), Professor and Chairman of the Department.
- George W. Corwin, B.S. (*Ithaca*), M.A., D.M.A. (*Rochester*), Associate Professor.
- Christine Mather, A.R.C.M., M.Mus., Ph.D. (*Michigan*), Associate Professor.
- Boyde W. Hood, B.M. (*Eastman*), M.M. (*Ball St.*), Assistant Professor.
- Rudolf Komorous, Diploma, State Cons. of Music (*Prague*). Artist Diplomas, Academy of Musical Arts (*Prague*), Assistant Professor.
- William C. Mickelsen, B.A. (*Brigham Young*), M.A. (*Utah*), Ph.D. (*Indiana*), Assistant Professor.
- Bruce E. More, B.Mus. (*Brit. Col.*), M.Mus., M.M.A. (*Yale*), Visiting Assistant Professor.
- Gordon S. Rowley, A.B., M.A. (*Stanford*), Lecturer, Music.
- Eileen Gibson, B.A. (*Calif. St. Coll., Hayward*), M.M.A. (*Yale*), Part-time Lecturer (oboe).
- Richard Ely, B.M. (*Montana*), M.M. (*Illinois*), Instrumental Instructor, and Director, University Concert Band.

VICTORIA CONSERVATORY OF MUSIC

Students in the Bachelor of Music programme and in the music teaching area in the Bachelor of Education programme receive their solo performance tuition from the faculty of the Department of Music and the Victoria Conservatory of Music. See page 356.

FACULTY OF THE VICTORIA CONSERVATORY OF MUSIC

- Robin Wood, F.R.A.M., Principal, Victoria Conservatory; piano.
- Winifred Wood, A.M.M. (*Man.*), A.R.C.M., L.R.S.M., A.R.A.M., Registrar, Victoria Conservatory; piano.
- Murray Adaskin, LL.D. (*Lethbridge*), violin.
- Aurette Biggs, A.R.C.T., L.R.C.T., piano.
- Harry Cawood, A.R.C.M., violin.
- Kathryn Ely, B.Ed., B.M. (*Illinois*), harp.
- John Gallienne, A.G.S.M., organ.
- Donald Haig-Robinson, L.R.A.M., A.R.C.M., piano.
- Margaret Hendry, A.T.C.M., piano.
- Boyde Hood, B.Mus. (*Eastman*), M.Mus. (*Ball St. U.*), trumpet.
- James Hunter, Graduate, Toronto Conservatory, cello.
- Selena James, M.Mus. (*Manhattan*), voice.
- Brian King, B.A. (*Bristol*), viola.
- Edward Lazenby, trombone.
- Else Menting, A.R.C.T., piano.
- Jan Menting, Instructor, Canadian Forces, flute.
- Dennis Miller, tuba.
- Charles Palmer, M.A., B.Mus. (*Oxon.*), A.R.C.M., A.R.C.O., piano.
- Richard Proudman, M.A., Mus.B. (*Cantab.*), L.R.A.M., A.R.C.M., organ and piano.

Naomi Rowley, B.M. (*Valparaiso*), M.A., D.M.A. (*Stanford*), harpsichord and organ.

Austin Scott, flute.

Cardo Smalley, viola.

John Smith, B.A. (*Ball State*), percussion.

Noel Smith, A.R.C.M., piano.

Marjorie Tebo, A.L.C.M., L.R.S.M., piano.

Beal Thomas, B.M. (*So. Methodist*), S.M.M. (*Union*), organ.

Barry Wells, A.R.C.T., piano.

Jacqueline Wood, L.R.A.M., A.R.C.M., piano.

Catherine Young, B.M., M.M. (*Eastman*), voice.

GENERAL REQUIREMENTS

In addition to fulfilling general requirements for the Faculty of Fine Arts, each student seeking admission to the Bachelor of Music programme must achieve satisfactory scores in the Department's aptitude test, audition on his major instrument and be interviewed. Confidential letters of recommendation are also required from two adult musicians who know something of the applicant's musical ability and potential. One's secondary school music teacher and/or private teacher would be logical choices where possible. Each prospective student is urged to make an appointment to visit the Department before July 30 in order to fulfill these requirements. If such a visit is impossible, final acceptance must be delayed until the candidate arrives in September to complete these admission requirements and is then subject to space limitation.

UNDERGRADUATE PROGRAMMES

For students who wish to prepare themselves for careers in music, graduate study, etc., the Department of Music offers majors in Composition and Theory, Music History and Literature, General Programme, and Performance, leading to the degree of Bachelor of Music.

PROGRAMME OF COURSES

All B.Mus. students regardless of their choice of Major will take a common first-year programme. However, in this first year a limited number of students may take extra units either in performance (Music 145 instead of 140) or in composition (Music 105) with the permission of the Department. As indicated below, all first year B.Mus. students are required to participate in the University Chorus (Music 180) as a supplement to Music 100's emphasis on sight-singing and ear training. The Department requires minimum keyboard skill which, if not achieved by the end of the first year, may require summer study with a teacher of one's choice and subsequent examination by the Department.

<i>Year 1</i>	
Music 100	3
Music 110	3
Music 140 or 145	2 or 3
Music 180	1
*Music electives	½ to 3
English 110 or non-music elective	3
**Non-Music elective	3
	15½ to 18

* Chosen from Orchestra, Concert Band, Wind Ensemble, String Ensemble, Chamber Singers, Collegium Musicum and Accompanying.

** To be chosen in consultation with the Department of Music.

Students in the General Programme who intend to teach music in the public school system should prepare themselves in a second teaching area. Before entering the fifth professional year in the Faculty of Education a student must have completed a specified number of units in this other academic discipline. (See the Faculty of Education regulations.)

Towards the end of the first year, each student will be expected to declare his choice of major and will be assigned an advisor with whom he will develop a programme of studies related to his needs and abilities.

The following programmes are *typical* but can be modified in consultation with the departmental chairman.

Major in Composition and Theory

*Year 2		*Year 3		*Year 4	
200	3	300	3	356	3
205	3	305	3	405	3
Non-music elective	3	400	3	440	2
240	2	340	2	Non-music elective	3
350	3	Non-music elective	3	Elective	3
	<hr/>		<hr/>		<hr/>
	14		14		14

Major in Music History and Literature

*Year 2		*Year 3		*Year 4	
Music History elective	3	Music History elective	3	400	3
200	3	300	3	Music History elective	3
240	2	340	2	499	3
Non-music elective	3	390	3	440	2
Elective	3	Non-music elective	3	Non-music elective	3
	<hr/>		<hr/>		<hr/>
	14		14		14

Major in General Programme

*Year 2		*Year 3		*Year 4	
200	3	300	3	400	3
Two of 330-336 series	3	356 or 360	3	440	2
240	2	Two of 330-336 series	3	Non-music elective	3
350	3	340	2	Two Music electives	6
Non-music elective	3	Non-music elective	3		
	<hr/>		<hr/>		<hr/>
	14		14		14

Major in Performance

*Year 2		*Year 3		*Year 4	
245	6	345	6	400	3
200	3	300	3	445	6
Elective	3	Music History elective	3	447	3
Non-music elective	3	Non-music elective	3	Non-music elective	3
	<hr/>		<hr/>		<hr/>
	15		15		15

*Students in all years will normally take two music courses in the 180 series receiving 1 to 2 units of credit beyond the total limits shown above.

UNDERGRADUATE COURSES

Unless indicated otherwise, courses begin in September and end in April.

LANGUAGE OF MUSIC***MUS 100. (3) Language of Music I**

A study of the basic materials and organization of music and the development of individual skills, including writing, ear training, sight-reading, and keyboard theory.

Prerequisite: Evidence of music training acceptable to the Department. (3-2; 3-2)

***MUS 200. (3) Language of Music II**

A study of music from plainsong to the 17th century with emphasis on strict counterpoint. Continued development of ear training, sight singing, and keyboard theory.

Prerequisite: Music 100. (3-1; 3-1)

***MUS 300. (3) Language of Music III**

A study of the music of the 18th and 19th centuries emphasizing the writing and analysis of harmony, counterpoint, and form. Continued development of ear training, sight reading, and keyboard theory.

Prerequisite: Music 200 or consent of the Department. (3-1; 3-1)

***MUS 400. (3) Language of Music IV**

Theory, techniques, and practice of twentieth-century music.

(3-0; 3-0)

COMPOSITION**MUS 105. (2) Introduction to Composition**

Prerequisite: Permission of Instructor.

(2-0; 2-0)

MUS 106. (3) Seminar in Sound

Experiments in musical expression, intended to free and strengthen the participants' creative powers. Members of the class will create, perform, and then critically evaluate their work.

(2-1; 2-1)

MUS 205. (3) Music Composition I

Prerequisite: Permission of Instructor.

(2-1; 2-1)

MUS 305. (3) Music Composition II

Study of electronic music. Practical experience in the electronic studio.

Prerequisite: Music 205.

(2-1; 2-1)

MUS 405. (3) Music Composition III

Prerequisite: Music 305.

(2-1; 2-1)

MUSIC HISTORY AND LITERATURE***MUS 110. (3) Introduction to Music History and Literature**

A survey of music literature in the changing cultural patterns of Western civilization from antiquity to the present day. Intended for students with some elementary knowledge of notation.

(4-0; 4-0)

***MUS 115. (3) The Elements of Music**

A study of the technical, historical, and aesthetic materials necessary to the critical evaluation of music. Primarily intended for the non-musician. Not open to B.Mus. students.

(3-0; 3-0)

*Approved for elective credit in the Faculty of Arts and Science.

***MUS 311. (3) Music of the Medieval Period and the Renaissance**

A study of music from the beginning of Christianity to c.1600.

Prerequisite: Music 110. (3-0; 3-0)

***MUS 312. (3) Music of the Baroque Era**

A study of music from c.1600 - c.1750.

Prerequisite: Music 110. (3-0; 3-0)

***MUS 313. (3) Music from c.1730 to the Late 19th Century**

Prerequisite: Music 110. Not open for credit to those who have taken Music 314.

(3-0; 3-0)

MUS 390. (3) Special Studies

With the consent of the Department, a student who has demonstrated a capacity for independent work may undertake an individual project.

Prerequisite: Music 110. (3-0; 3-0)

MUS 490. (3) Special Studies

With the consent of the Department, a student who has demonstrated a capacity for independent work may undertake an individual project.

Prerequisite: Music 110. (3-0; 3-0)

MUS 499 (formerly 426). (3) Seminar in Musicology

For Music History majors only. Seminar will include the graduating essay. (3-0; 3-0)

INSTRUMENTAL AND CHORAL TECHNIQUES

MUS 330. (1 ½) Strings

Group instruction in playing all orchestral string instruments.

One term only. To be announced. (2-2)

MUS 331. (1 ½) Brasses

Group instruction in playing all orchestral brass instruments.

One term only. To be announced. (2-2)

MUS 332. (1 ½) Woodwinds

Group instruction in playing all orchestral woodwind instruments.

One term only. To be announced. (2-2)

MUS 333. (1 ½) Percussion

Group instruction in playing all orchestral percussion.

One term only. To be announced. (2-2)

MUS 334. (1 ½) Voice

Group instruction in vocal production.

One term only. To be announced. (2-2)

MUS 336. (1 ½) Keyboard

Group instruction in piano, harpsichord, and/or organ.

One term only. To be announced. (2-2)

MUS 350 (formerly 335). (3) Orchestration

Study of instrumentation and orchestration.

Prerequisite: Music 100. (3-0; 3-0)

MUS 356. (3) Introduction to Conducting

Fundamental conducting techniques as applied to instrumental and vocal music.

Prerequisite: Permission of Instructor. (2-1; 2-1)

*Approved for elective credit in the Faculty of Arts and Science.

MUS 360. (3) Choral Techniques

The elements of conducting, vocal production, repertoire, analysis and rehearsal technique.

Prerequisite: Music 110. (2-1; 2-1)

MUS 456. (3) Conducting

Prerequisite: Music 356 and the consent of the instructor. (2-1; 2-1)

APPLIED MUSIC

Instruction in voice or in an instrument will be provided by the faculty of the Department of Music or by the Victoria Conservatory of Music.

MUS 140. (2) Individual Tuition

Lessons in instrument or voice.

Prerequisite: Evidence of marked musical ability demonstrated by audition. (0-6-1; 0-6-1)

MUS 145. (3) Seminar in Performance

Individual tuition and weekly class including discussion of repertoire, pedagogy, and techniques of ensemble performance.

Prerequisite: A.R.C.T. Diploma (Performers') or equivalent.

For Performance Majors only. (1-12-2; 1-12-2)

MUS 240. (2) Individual Tuition

Lessons in instruments or voice.

Prerequisite: Music 140. (0-6-1; 0-6-1)

MUS 245. (6) Seminar in Performance

Individual tuition and weekly class including discussion of repertoire, pedagogy, and techniques of ensemble performance.

Prerequisite: Music 145.

For Performance Majors only. (1-12-2; 1-12-2)

MUS 340. (2) Individual Tuition

Lessons in instruments or voice.

Prerequisite: Music 240. (0-6-1; 0-6-1)

MUS 345. (6) Seminar in Performance

Individual tuition and weekly class including discussion of repertoire, pedagogy, and techniques of ensemble performance.

Prerequisite: Music 245.

For Performance Majors only. (1-12-2; 1-12-2)

MUS 440. (2) Individual Tuition

Lessons in instruments or voice.

Prerequisite: Music 340. (0-6-1; 0-6-1)

MUS 445. (6) Seminar in Performance

Individual tuition and weekly class including discussion of repertoire, pedagogy, and techniques of ensemble performance.

Prerequisite: Music 345.

For Performance Majors only. (1-12-2; 1-12-2)

MUS 447. (3) Graduating Recital

Prerequisite: Music 345.

For Performance Majors only.

PERFORMANCE GROUPS

MUS 180 (formerly 150). (1) University Chorus	(0-3; 0-3)
MUS 181 (formerly 151). (1) University Orchestra	(0-4; 0-4)
MUS 182 (formerly 152). (1) University Concert Band	(0-4; 0-4)
MUS 183 (formerly 153). (½) Wind Ensembles	(0-2; 0-2)
MUS 184 (formerly 153). (½) String and Piano Ensembles	(0-2; 0-2)
MUS 185 (formerly 155). (1) University Chamber Singers	(0-4; 0-4)
MUS 186 (formerly 410). (1) Collegium Musicum	(0-4; 0-4)
MUS 187. (1) Accompanying	(0-4; 0-4)
MUS 280 (formerly 150). (1) University Chorus	(0-3; 0-3)
MUS 281 (formerly 151). (1) University Orchestra	(0-4; 0-4)
MUS 282 (formerly 152). (1) University Concert Band	(0-4; 0-4)
MUS 283 (formerly 153). (½) Wind Ensembles	(0-2; 0-2)
MUS 284 (formerly 153). (½) String and Piano Ensembles	(0-2; 0-2)
MUS 285 (formerly 155). (1) University Chamber Singers	(0-4; 0-4)
MUS 286 (formerly 410). (1) Collegium Musicum	(0-4; 0-4)
MUS 287. (1) Accompanying	(0-4; 0-4)
MUS 380 (formerly 150). (1) University Chorus	(0-3; 0-3)
MUS 381 (formerly 151). (1) University Orchestra	(0-4; 0-4)
MUS 382 (formerly 152). (1) University Concert Band	(0-4; 0-4)
MUS 383 (formerly 153). (½) Wind Ensembles	(0-2; 0-2)
MUS 384 (formerly 153). (½) String and Piano Ensembles	(0-2; 0-2)
MUS 385 (formerly 155). (1) University Chamber Singers	(0-4; 0-4)
MUS 386 (formerly 410). (1) Collegium Musicum	(0-4; 0-4)
MUS 387. (1) Accompanying	(0-4; 0-4)
MUS 480 (formerly 150). (1) University Chorus	(0-3; 0-3)
MUS 481 (formerly 151). (1) University Orchestra	(0-4; 0-4)
MUS 482 (formerly 152). (1) University Concert Band	(0-4; 0-4)
MUS 483 (formerly 153). (½) Wind Ensembles	(0-2; 0-2)
MUS 484 (formerly 153). (½) String and Piano Ensembles	(0-2; 0-2)
MUS 485 (formerly 155). (1) University Chamber Singers	(0-4; 0-4)
MUS 486 (formerly 410). (1) Collegium Musicum	(0-4; 0-4)
MUS 487. (1) Accompanying	(0-4; 0-4)

These may all be taken in more than one year or in all four years, the year of an individual's participation to be designated by the first digit.

GRADUATE COURSES

Students should consult with the Department of Music concerning the courses offered in any particular year.

Apart from the following courses, graduate students are encouraged to take an active part in the performing groups and musical life of the University.

MUS 501. (1 ½ or 3) **Seminar in Historical Musical Notations** (3-0) or (3-0; 3-0)

MUS 502. (3) **Musical Aesthetics and the Theory of Criticism** (3-0; 3-0)

***MUS 503.** (1 ½) **Introduction to Graduate Study and Music Bibliography**
September-December only. (3-0)

MUS 504. (1 ½ or 3) **Seminar in Performance Practice** (3-0) or (3-0; 3-0)

MUS 505. (1 ½ or 3) **History of Musical Instruments** (3-0) or (3-0; 3-0)

MUS 506. (1 ½) **Musical Acoustics**

MUS 540. (1) **Individual Tuition**

Lessons in instruments or voice.

Optional for graduate students in musicology and composition. (0-1; 0-1)

††**MUS 545.** (4) **Major Instrument Study**

Individual tuition and master class.

For M.Mus. candidates in performance only. (2-2; 2-2)

†**MUS 550.** (3) **Studies in a particular Era of Music History** (3-0; 3-0)

†**MUS 551.** (1 ½ or 3) **Studies in particular Forms or Genres in Music History**
(3-0) or (3-0; 3-0)

†**MUS 552.** (1 ½ or 3) **Studies in the music, life and times of individual composers**
(3-0) or (3-0; 3-0)

****MUS 560.** (1 ½ or 3) **Seminar in Musicology** (3-0) or (3-0; 3-0)

MUS 561. (3) **Seminar in Composition**

†**MUS 580.** (1 ½ or 3) **Directed Studies**

††**MUS 581.** (2) **Ensemble Coaching and Playing** (0-4; 0-4)

§**MUS 597.** **M.Mus. Graduating Composition(s)**

MUS 598. (0) **M.Mus. Practicum**

Degree recital required for performance majors in final years.

§**MUS 599.** **M.A. Thesis**

§**MUS 699.** **Ph.D. Dissertation**

* All students in Musicology must register for this in their first term of graduate study.

** All students in Musicology must register for this each year they are in residence.

† May be taken more than once, in different fields, at the discretion of the Department.

†† Performance majors must register for this in each year of study.

§ Credit to be determined.

DEPARTMENT OF THEATRE

Barbara McIntyre, B.A., M.A. (*Minnesota*), Ph.D. (*Pittsburgh*), Professor and Chairman of the Department.

Carl R. D. Hare, M.A. (*Alta.*), Dip. R.A.D.A., Associate Professor.

John F. Krich, A.B. (*Baldwin-Wallace*), M.F.A. (*Yale*), Associate Professor.

Harvey M. Miller, B.S., M.Ed., M.A., Ph.D. (*Pittsburgh*), Assistant Professor.

Irene M. Pieper, B.A. (*Calif.*), M.A. (*San Fran. St. Coll.*), Assistant Professor.

William D. West, Assistant Professor.

Giles W. Hogya, B.A. (*Miami*), M.A. (*Northwestern*), Lecturer.

Kazimierz Piesowocki, Senior Academic Assistant.

E. Patricia Wainman-Wood, B.A. (*Queen's*), Lecturer.

GRADUATE PROGRAMMES

Departmental offerings leading to the M.A. and M.F.A. degrees are outlined on page 343 of this Calendar.

UNDERGRADUATE PROGRAMMES

BACHELOR OF FINE ARTS WITH A MAJOR IN THEATRE

The Bachelor of Fine Arts with a major in Theatre is an intensive programme intended for students who wish to continue their studies in graduate or professional schools or who wish to prepare for a career in community, educational or professional theatre. The programme is designed to provide not only a broad general education but also a theoretical, historical and practical knowledge of one or more areas of theatre performance: acting, directing, design, or children's drama.

Students who wish to register in the Department of Theatre as theatre majors should seek an interview with the Chairman of the Department before August 15 or during registration week. Students from two year colleges who anticipate transferring to the University of Victoria with the intention of majoring in theatre should consult the Department of Theatre before registering in any theatre courses. Such students should be aware of the special degree requirements in this area and should not normally expect to fulfill those requirements in two years.

Students will be required to take part in rehearsals and performances associated with departmental projects. They must consult the Department before accepting major commitments not related directly to their course of study.

Each season, the Theatre Department presents major productions in the Phoenix Theatre as well as various experimental performances.

PROGRAMME OF COURSES

All Bachelor of Fine Arts students with a major in Theatre will be required to complete a minimum of twenty-four units of course work outside the Department of Theatre.

General Programme

In the general programme B.F.A. students must complete sixty units of course work of which thirty normally will be in theatre. Each student is required to take English 111, 115 or 121, 122, Theatre 100, Theatre 105, and either Theatre 120 or 181 in his first year. In his second year each student will be assigned an advisor who will develop a programme of studies related to his needs and abilities. During his final three years a student normally will be required to take Theatre 310, 311 and 312.

Special Programme

A student showing exceptional talent in acting, designing, directing or children's drama may be permitted to specialize in one of these areas. Such a student must offer at least 36 credits of theatre course work for graduation of which at least nine units must be in his specialty and three units in a related area as determined by his advisor. The 36 units of theatre must include the courses required for the general programme.

COURSES**INTRODUCTORY COURSES*****THEA 100. (3) The Language of the Theatre**

A practical and theoretical introduction to play analysis, to dramatic criticism, to theatrical form, and to the principles of stage production. Attendance at live performances is required. (3-0; 3-0)

THEA 105. (3) An introduction to Stage Design and Technical Practice

Elementary principles of design and lighting; the techniques of scenery and costume construction. (1-4; 1-4)

HISTORY OF THEATRE***THEA 310. (3) The History of the Theatre to 1642**

An examination of the western theatre in relation to society from its beginnings in primitive ritual to the close of the English playhouses in 1642. (3-0; 3-0)

***THEA 311. (3) The History of the Theatre from 1642 to the Rise of Naturalism**

An examination of the late seventeenth-, eighteenth-, and nineteenth-century theatre with particular emphasis on England, France, Italy and Germany. (3-0; 3-0)

***THEA 312. (3) Modern World Theatre (formerly Studies in Contemporary Theatre)**

An examination of the theatre from Ibsen to the present. (3-0; 3-0)

THEA 410. (1½) Seminar in Theatre History I

Intensive study of a specific period of genre. The topics for consideration will change each term. Students may take this course for credit more than once.

Prerequisite: Permission of the instructor. September-December only. (3-0)

THEA 411. (1½) Seminar in Theatre History II

Intensive study of a specific period or genre. The topics for consideration will change each term. Students may take this course for credit more than once.

Prerequisite: Permission of the instructor. January-April only. (3-0)

ACTING**THEA 120. (3) Acting I**

First steps in movement, voice, improvisation and scene study. Elementary phonetics. (0-6; 0-6)

THEA 220. (3) Acting II

Advanced work in acting. Prerequisite: Theatre 120 and permission of the instructor. Corequisite: Theatre 250 and 260. (0-6; 0-6)

THEA 250. (1½) Beginning Speech

Intensive training of the human voice with emphasis on speech for the stage. Prerequisite: Theatre 120 and permission of the instructor. (0-3; 0-3)

*Approved for elective credit in the Faculty of Arts and Science.

THEA 260. (1½) Introduction to Stage Movement (formerly Introduction to Dance)

An introduction to the principles regulating the relationship between the use of the body and acting.

Prerequisite: Theatre 120 or permission of the instructor. (0-3; 0-3)

THEA 320. (3) Acting III

Intensive study in characterization.

Prerequisite: Theatre 220, 250, 260 or permission of the instructor. Corequisite: Theatre 350 and 360. (0-6; 0-6)

THEA 350. (1½) Advanced Speech

Advanced training in interpretation, vocal character studies, dialects, microphone techniques. Prerequisite: Theatre 250 and permission of the instructor. (0-3; 0-3)

THEA 360. (1½) Advanced Problems in Stage Movement (formerly Special Projects in Dance)

Exploration of problems of expression movement on the stage.

Prerequisite: Theatre 260 and permission of the instructor. (0-3; 0-3)

THEA 420. (3) Special Problems in Acting

Advanced work under performance conditions. Prerequisite or corequisite: Theatre 350, 360 and permission of the instructor. (0-6; 0-6)

DIRECTING

THEA 330. (3) Directing I

Fundamental textual analysis; stage composition, movement and rhythm; methods of rehearsal procedure and basic techniques of working with the actor. Prerequisite: Theatre 120 or 181 and permission of the instructor. (1-4; 1-4)

THEA 430. (3) Directing II

Advanced work in stage direction with particular emphasis on special problems of style. Prerequisite 330 or permission of the instructor. (1-4; 1-4)

DESIGN AND TECHNICAL PRACTICE

THEA 240. (3) Graphic Techniques for Theatre Designers

A course designed to develop rendering and delineation skills in both freehand and mechanical idioms useful to the designer for the communication of appropriate information in an appropriate form for design development or working drawings. (1-4; 1-4)

THEA 340. (3) Scenery for the Theatre

Fundamentals of three-dimensional design and spatial perception in the theatre. Graphic techniques for planning, analyzing and describing plastic space for the stage. Practical problems in the design of stage settings. Prerequisite: Theatre 105 and 240 or permission of the instructor. (2-2; 2-2)

THEA 341. (3) Costume for the Theatre

Problems in costume design and construction; history of costume. Prerequisite: Theatre 105 or permission of the instructor. (2-2; 3-0)

THEA 342. (3) Lighting for the Theatre

Lighting design; its theory and practice. Prerequisite: Theatre 105 or permission of the instructor. (2-2; 2-2)

THEA 441. (1½) Costume Pattern Drafting

Practical application of various techniques for drafting costume patterns for the theatre; adaptations of historical patterns, development of variations from basic patterns, and draped costumes.

Prerequisite: Theatre 341 or permission of the instructor. (2-1; 2-1)

CHILDREN'S DRAMA

THEA 181. (3) An Introduction to Children's Drama

A basic theoretical introduction and practical exploration of the principles and practices of drama with and for children in education and in the community. Studio sessions in movement, speech and improvisation are required, as well as attendance at lectures, discussions and films. (1-4; 1-4)

THEA 382. (3) Youth Theatre

A study of the methods and materials for creative drama, improvisation, play interpretation, and reader's theatre, for elementary and secondary school age students in educational and community settings. (2-2; 2-2)

THEA 383. (3) Theatre-for-Young-Audiences

A study of the problems of producing plays for and by children with practical work in a variety of forms and media. Studio work will be required.

Prerequisite: Theatre 330 and permission of the instructor. (1-4; 1-4)

DIRECTED STUDIES

THEA 299. (3) Theatre Laboratory

Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of the theatre. Open only to second-year students in the B.F.A. programme. (2-2; 2-2)

****THEA 390. (3) Directed Studies in Theatre History**

****THEA 391. (3) Directed Studies in Theatre Aesthetics**

****THEA 392. (3) Directed Studies in Theories of Acting**

****THEA 393. (3) Directed Studies in Theories of Direction**

****THEA 394. (3) Directed Studies in Children's Drama**

THEA 395. (3) Directed Studies in Design

Individual supervised research in children's drama culminating in the production of a specific project either written or practical.

THEA 399. (3) Theatre Laboratory

Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of the theatre. Open only to third-year students in the B.F.A. programme. (2-2; 2-2)

THEA 490. (3) Graduating Project

Students may take directed studies under this number for credit more than once according to their areas of interest and with the permission of the Department.

GRADUATE COURSES

Prerequisite: Departmental evaluation of the student's diagnostic examination and the student's experience.

THEA 500. (3) Methods and Materials of Theatre Research

THEA 501. (3) Seminar in History and Criticism of Tragedy

THEA 502. (3) Seminar in History and Criticism of Comedy

**Students in Arts and Sciences may take for elective credit only one of the five directed studies courses.

- THEA 503. (3) Seminar in European Theatre History
- THEA 504. (3) Seminar in North American Theatre History
- THEA 505. (3) Seminar in Contemporary Theatrical Styles
- THEA 506. (3) Seminar in Children's Drama
- THEA 507. (3) Seminar in Children's Theatre
- THEA 508. (3) Scene Design
- THEA 509. (3) Lighting Design
- THEA 510. (3) Costume Design
- THEA 511. (3) Production
- THEA 512. (3) Directing
- THEA 513. (3) Seminar in Theatre Aesthetics
- THEA 520 (formerly 508). (3) Advanced Problems in Scene Design
- THEA 521 (formerly 509). (3) Advanced Problems in Lighting Design
- THEA 522 (formerly 510). (3) Advanced Problems in Costume Design
- THEA 523 (formerly 512). (3) Advanced Problems in Directing
- THEA 590. (3) Directed Studies
- Students may take directed studies under this number for credit more than once according to their areas of interest and with the permission of the Department.
- 590(A) Directed Studies in Theatre History
- 590(B) Directed Studies in Children's Theatre
- 590(C) Directed Studies in Design
- 590(D) Directed Studies in Production
- THEA 598. (Credit to be determined) M.F.A. Practicum
- THEA 599. (Credit to be determined) M.A. Thesis

DEPARTMENT OF VISUAL ARTS

John P. Dobereiner, B.Ed. (*Brit. Col.*), M.F.A. (*Wash.*), Associate Professor (Drawing and Painting) and Chairman of the Department.

Donald Harvey, A.T.D. (*Brighton*), A.R.C.A., Associate Professor (Drawing and Painting).

Patricia M. Bates, Dip. Royale (*Académie des Beaux Arts, Belgium*), Assistant Professor (Printmaking).

Gord Smith, A.R.C.A., Assistant Professor (Sculpture).

George W. Tiessen, B.F.A. (*Mount Allison*), M.F.A. (*Cornell*), Assistant Professor (Printmaking).

Ruth S. Beer, B.F.A. (*Sir George Williams*), M.V.A. (*Alberta*), Lecturer (Sculpture).

GENERAL INFORMATION

The Department offers two undergraduate programmes leading to the degree of B.F.A. In addition, it makes every effort to serve the needs of students from other departments and other faculties, within the limits of available resources. There are no graduate offerings at the present time.

The academic emphasis of the Department is on a fine art curriculum, rather than on applied or craft training. The development of visual awareness and the growth of creative skills are seen as the primary goals of the programme. All courses will stress the need for individual initiative and self-discipline.

It is felt that a serious liberal education in the visual arts is an excellent foundation for many careers in art; and the Department will help and advise those students who plan later to enter professional fields.

ADVICE FOR STUDENTS ENTERING THE DEPARTMENT FOR THE FIRST TIME

1. From secondary school

Complete the usual procedures for admission to the University, as specified elsewhere in this Calendar. **If you are admissible to the University, you will be admissible to the basic first-year course, Art 100 (The Principles of Design), which requires no previous experience in art.**

If you intend to pursue a degree programme in Visual Arts, you should declare that intention by registering in the Faculty of Fine Arts. Your achievement in Art 100 will determine your eligibility to continue as a B.F.A. candidate.

Students who have already had considerable experience in art are invited to write to the Department Chairman or request a personal interview in order to seek academic advice. In these cases, permission may be granted to include an additional Art course in the first-year programme.

Information about departmental offerings and facilities will always be available to anyone interested.

2. Transfer from other universities, colleges, and art schools

Complete the usual procedures for admission to the University, as specified elsewhere in this Calendar. The Director of Admissions will consult the Department for advice on transfer credit for studio courses that you have completed elsewhere. As early as possible (normally by June 30, 1974) you should submit a folio of recent work to be evaluated by a committee of the Department. Folios may contain drawings, prints, paintings, or any flat material. Applicants whose specialty is in a three-dimensional area should submit photographs or slides. Letters of recommendation, evidence of prizes or awards, or other written material should be sent separately by regular mail. Folios should be sent or delivered to:

Chairman,
Department of Visual Arts,
Room 198, MacLaurin Building,
University of Victoria.

If you are admitted to a B.F.A. programme, you will likely receive transfer credit for equivalent studio courses that you have completed elsewhere.

3. From other programmes at the University of Victoria

Complete the usual procedures for re-registration, as specified elsewhere in this Calendar. You are urged to write to the Department Chairman or request a personal interview, if possible before June 30, 1974. If you wish to submit a folio, please follow the procedures listed above.

UNDERGRADUATE PROGRAMMES

Students who are working towards the B.F.A. degree have the choice of a *major* or a *general* programme. This permits a choice between an intensive commitment to Visual Arts (40 studio units from a degree total of 61); or a combination of Visual Arts and other university offerings (as few as 24 studio units from a degree total of 60). There are identical first-year requirements in both programmes; and the choice between major and general programmes need not be made until the beginning of second or even third year. Entry into the major programme requires the approval of the Department, and involves either the submission of a folio of recent work or a high level of achievement in Art 100. A student who chooses the general programme can, with careful planning, complete the equivalent of an academic major in another department or even in another faculty. There is no folio requirement for the general programme, though the Department reserves the right to limit admission if facilities are crowded.

Both B.F.A. programmes in Visual Arts require academic work outside the Department: students will be encouraged to exploit the full range of resources on the university campus. A liberal education in the visual arts should be a process of intellectual growth and enquiry; creative achievement in the studio, however important, cannot be the sole aim of the programme. The Department will always be pleased to offer advice about courses in other departments that may be particularly relevant to students in Visual Arts.

MAJOR

Students must complete 40 units of Department offerings, including Art 100; Art 200; any three of Art 210, 220, 230, 240; Art 280; 12 units to be chosen from courses at the 300 level; and Art 499 (12 units). Of the total 61 units, at least 18 units must be chosen from outside the Department of Visual Arts, including 6 units of History in Art.

GENERAL

Students must complete 24 units of Department offerings, including Art 100; Art 200; at least one of Art 210, 220, 230, 240; and 15 units to be chosen from courses at the 300 level. At least 18 units must be chosen from outside the Department of Visual Arts, including 6 units of History in Art. Of the total 60 units, at least 21 must be chosen from courses numbered 300 or above.

1st Year:	Art 100	(3)	History in Art 120	(3) NOTE 1
	Art or outside elective	(3) NOTE 2	Outside electives	(6) NOTE 3
2nd Year:	<i>Major</i>		<i>General</i>	
	Art 200	(3)	Art 200	(3)
	Three of:		One of:	
	Art 210		Art 210	
	Art 220		Art 220	
	Art 230		Art 230	
	Art 240	(9)	Art 240	(3)
	Outside elective	(3)	Art or outside electives	(6)
	Art 280	Note 4 (1)	Outside elective	(3)
3rd & 4th Years:	<i>Major</i>		<i>General</i>	
	Art 311-343	(12)	Art 311-343	(15)
	Art 499	(12)	Art or outside electives	(9)
	Outside electives	(6)	Outside electives	(6)

NOTES:

1. Students are strongly advised to include History in Art 120 in their first-year programmes. The required 6 units of History in Art may be elected at any time during the four years.
2. Upon application to the Department, qualified first-year students may receive permission to include in their programmes *one* 3-unit studio course chosen from Art 210, 220 and 230.
3. A general University of Victoria regulation requires all students either to pass the qualifying examinations in English or to complete English 111 and one of English 115, 121, 122.
4. Art 280 may be deferred to Third or Fourth Year.

COURSES

First Year

***ART 100. (3) The Principles of Design**

An introduction to visual art through an intensive exploration of its elements: line, tone, mass, colour, and texture. The emphasis will be placed upon studio experience. As far as facilities permit, the course will be open to all students in the University, regardless of background; if enrolment must be limited, priority will be given to students registered in the Faculty of Fine Arts. (1-4; 1-4)

Second Year

ART 200. (3) Drawing

This course is required of all Visual Arts students, and may be thought of as a foundation upon which all subsequent courses will be built. It is intended to increase the individual student's drawing skills and his familiarity with various drawing media. (Prerequisite: Art 100) (0-4; 0-4)

*Approved for elective credit in the Faculty of Arts and Science.

ART 210. (3) Painting

A studio introduction to painting and related areas. This course is a prerequisite to any of Art 311, 312, or 313. (0-3; 0-3)

ART 220. (3) Sculpture

A general exploration of three-dimensional form and perception, with a specific emphasis on basic techniques. Attention will be given to a wide scope of sculptural media including welding, carving, casting, and plastics. This course is prerequisite to any of Art 321, 322, or 323. (0-3; 0-3)

ART 230. (3) Printmaking

Techniques and history of relief printing: linocut, woodcut, collograph, etc. This introductory course is recommended for students proceeding to Art 331, 332, or 333, but is not a formal prerequisite to those courses. (0-3; 0-3)

ART 240. (3) Photography

A basic introductory course, prerequisite to any of Art 341, 342, or 343. The art of taking, developing, and printing of photographs; darkroom techniques and practices. Enrolment will be limited by facilities available, and priority will be given to Visual Arts students. (1-2; 1-2)

ART 280. (1) Visual Arts Seminar

A weekly group discussion of special problems in the Visual Arts. The course is intended for students at the Second-Year level, but may be deferred until later in the B.F.A. programme.

Members of the Department. (2-0; 2-0)

Third Year

Painting

ART 311. (3) Painting I (0-3; 0-3)

ART 312. (3) Painting II (0-3; 0-3)

ART 313. (3) Painting III (0-3; 0-3)

A sequence of advanced courses in painting (equivalent to the former Art 315 and 316). Concurrent registration may be permitted in two or three courses of the sequence. Prerequisite: Art 210.

Sculpture

ART 321. (3) Sculpture I (0-3; 0-3)

ART 322. (3) Sculpture II (0-3; 0-3)

ART 323. (3) Sculpture III (0-3; 0-3)

A sequence of advanced courses in sculpture (equivalent to the former Art 375 and 376). Concurrent registration may be permitted in two or three courses of the sequence. Prerequisite: Art 220.

Printmaking

ART 331. (3) Printmaking: Screen Printing

An introduction to screen printing: exploration of all stencil methods, including photo screen, with the aim of producing original prints. (0-3; 0-3)

ART 332. (3) Printmaking: Intaglio

Techniques and history of intaglio printing: etching, engraving, aquatint, etc. (0-3; 0-3)

ART 333. (3) Printmaking: Planography

Techniques and history of lithography, with an emphasis on words with images.
(0-3; 0-3)

Film and Photography

ART 341. (3) Film and Photography I (1-2; 1-2)

ART 342. (3) Film and Photography II

ART 343. (3) Film and Photography III (1-2; 1-2)

A sequence of advanced courses in film and photography. With the aid of weekly lectures and studio guidance, students will be encouraged to pursue a self-directed programme in film and/or photography.

(Not offered 1974-75.)

ART 390. (3) Directed Studies

Fourth Year

The following courses are for major students only; general students will complete their degree programmes from 300-level courses.

ART 490. (3) Directed Studies

ART 499. (12) Senior Project

FACULTY OF GRADUATE STUDIES

The Faculty of Graduate Studies of the University of Victoria administers programmes leading to the degrees of:

- Master of Arts
- Master of Education
- Master of Fine Arts
- Master of Music
- Master of Science
- Doctor of Philosophy

Degrees may be taken in one Department or Faculty, or in a combination of them.

Members of the Executive Committee of the Faculty of Graduate Studies are:

S. A. Jennings, B.A., M.A., Ph.D., Dean of the Faculty of Graduate Studies, Chairman.

R. H. Roy, C.D., B.A., M.A., Ph.D., Associate Dean of the Faculty of Graduate Studies

Representing the Humanities

C. B. Daniels, Department of Philosophy.

Representing the Sciences

W. M. Barss, Department of Physics.

Representing the Social Sciences

R. B. Hagedorn, Department of Anthropology and Sociology

Representing Education

A. Kratzmann, Faculty of Education.

Representing Fine Arts

C. Mather, Department of Music.

Secretary

Administrative Assistant (*ex-officio*)

R. G. Napier.

REGULATIONS

The regulations shown below have been approved by the Senate of the University of Victoria. Students registered in the Faculty of Graduate Studies are subject to such other general regulations of the University as the Senate or Board of Governors, on the recommendation of the Faculty of Graduate Studies, may wish to apply.

GENERAL REQUIREMENTS

The general requirements apply to all students registered in the Faculty of Graduate Studies. Special regulations are described under the headings "Special Regulations for the Master's Degree" and "Special Regulations for the Degree of Doctor of Philosophy."

QUALIFICATIONS FOR ADMISSION

The requirements for admission to the Faculty of Graduate Studies include an academic standing acceptable to the Faculty of Graduate Studies and the Department or Faculty concerned; satisfactory letters of reference; the availability within the Department or Faculty concerned of a supervisor and of adequate space and facilities. In general, an acceptable academic standing will be a baccalaureate degree from a recognized university, or its equivalent, with at least a B average (70%) in the work of the last two years leading to this baccalaureate degree. Individual Departments or Faculties may set higher standards.

NOTE 1: Students whose native language is not English will be required to provide evidence that their knowledge of English is sufficient to allow them to proceed with their studies.

NOTE 2: Overseas students should not make provision to travel to Canada until they have actually been admitted and have evidence of financial resources to allow them to pursue their studies here. See page 21 for medical requirement.

CATEGORIES OF STUDENTS

Students are admitted to the Faculty of Graduate Studies in one of the following categories:

1. *Candidate for a Master's degree.*

2. *Provisional candidate for the degree of Doctor of Philosophy.*

All doctoral students are admitted as provisional candidates until they have passed their candidacy examinations, at which time they are automatically classified as candidates for the degree of Doctor of Philosophy. (See item 8 of the Special Regulations for the degree of Doctor of Philosophy.)

3. *Special Graduate Student.*

Special Graduate Students are students who are taking graduate courses but not for credit toward a degree at the University of Victoria. In general, such students will be either:

- a. taking courses for credit at another university (Exchange Graduate Students) or
- b. students who are desirous merely of improving their academic background.

If, later, a Special Graduate Student decides to proceed to a degree at the University of Victoria, the question of graduate credit for the courses already taken will be determined by the Dean, in consultation with the Department or Faculty concerned, at the appropriate time.

Special Students, as in a. above, must show that they have been admitted to the University at which they intend to apply their credits.

Special Students under b., above, must meet the Qualifications for Admission listed under that heading and have the special permission of the Department or Faculty concerned.

4. *Qualifying Graduate Student.*

A qualifying graduate student is one who is not yet a candidate for a Master's degree nor a provisional candidate for a doctoral degree. Such a student may be admitted to the Faculty of Graduate Studies on the recommendation of a Department or Faculty to a programme which will normally consist of at least nine units. At the end of that programme, the Department or Faculty concerned shall make a recommendation to the Faculty of Graduate Studies on the student's status. No student shall remain as a qualifying student for more than twelve months.

NOTE 1: Except as specified in items 2 and 4 above, it is the responsibility of the student's Supervisory Committee to request the Faculty of Graduate Studies to change his category.

NOTE 2: A full-time graduate student is one who devotes the greater part of his time to his studies and, thus, should not be gainfully employed for more than 300 hours, September through April. Students who are gainfully employed for a greater number of hours than this must register as part-time students; other students may elect so to register. No part-time graduate student may offer for credit more than six units of course work at the graduate level (courses numbered 500 to 699) in any one winter session; nor may he offer more than nine units of course work or thesis or both for credit in any twelve-month period.

NOTE 3: With the exception of the M.Ed. student who may take up to six units of course work in a Summer Session, no graduate student may take more than three units of course work at the graduate level in any one summer; moreover, he may not take an undergraduate level course in the same summer in which he takes a graduate course.

NOTE 4: No graduate student may offer for credit more than 18 units of work (courses, thesis or dissertation, or both) in any one twelve-month period.

NOTE 5: No graduate student may offer for credit more than six units of work at the undergraduate level in the final 15 units credited to his degree, and these courses shall not be below the 300 level.

NOTE 6: Graduate courses are not open to students outside the Faculty of Graduate Studies, except that fourth- or fifth-year undergraduate students who have achieved a GPA of 6.0 or better, in their previous year's work, may be allowed to register in one graduate course on the recommendation of the Department or Faculty concerned, subject to the approval of the Dean of Graduate Studies.

APPLICATION FOR ADMISSION

Applications for admission must be submitted as early as possible on forms obtained from the Faculty of Graduate Studies. No assurance can be given that applications received after June 1 can be processed in time to permit registration in the winter session. A graduate of another university must arrange with that institution to forward two transcripts of his academic record to the Faculty of Graduate Studies at the time of application. Also, at the same time, all applicants must arrange to have two letters of recommendation sent to the Faculty of Graduate Studies on forms supplied by the Faculty. All applications must be accompanied by an application fee of \$5.00.

Students who have been admitted to the Faculty of Graduate Studies by April 30 must confirm to the office of the Dean of Graduate Studies by May 31 that they intend to accept the offered place. If this is not done, then the admission will be cancelled and the place reassigned.

REGISTRATION

All students admitted to the Faculty of Graduate Studies must normally register in person on the date specified for such registration and announced by the Office of the Registrar. All students admitted to the Faculty of Graduate Studies must thereafter maintain continuous registration during the period of their programmes by registering in person or by mail once a year on the annual registration date and paying the necessary fees.

Students registering for the first time are required to submit a medical history. The necessary form is mailed to each applicant with the Notice of Admission, and it must be completed and mailed to the University Health Service before registration can be completed. A medical examination is not compulsory except for resident students and those taking Physical Education courses. The medical examination is not provided by the University; it must be obtained at the student's own expense. The University, through the Director of the University Health Service, may require a student to take a medical examination at any time during his attendance at the University. This measure exists to safeguard the medical welfare of the student body as a whole. Students who are not residents of Canada are required to produce evidence of adequate sickness and hospital insurance coverage before registration can be considered complete.

PERMISSION TO WITHDRAW

A student who wishes to withdraw from the Faculty of Graduate Studies, either temporarily or permanently, must request permission in writing from the Dean of the Faculty to do so.

ACADEMIC STANDARDS

Students registered in the Faculty of Graduate Studies must maintain a cumulative average of at least "B" (5.0 GPA), computed yearly, on all graded courses taken for credit towards a graduate degree. Individual Departments or Faculties may set higher standards.

A student who fails to meet these standards, or whose dissertation or thesis is not progressing satisfactorily, may be required to withdraw from the Faculty of Graduate Studies with the advice and consent of the Department or Faculty concerned.

Students who fail their final oral examination will not be recommended for a degree. Such students have the right to appeal to the Dean of the Faculty, in writing, giving reasons for requesting re-examination. Such an appeal must be made within three months of notification of failure.

DISSERTATION OR THESIS

Regulations covering the format of dissertation or thesis may be obtained from the Faculty of Graduate Studies.

SPECIAL REGULATIONS FOR THE MASTER'S DEGREE1. *Time Limit*

Normally, a student proceeding toward a Master's degree will be required to complete all the requirements for the degree within five years (sixty months) from the date of his first registration in the Faculty of Graduate Studies. A degree will in no case be awarded in less than seven months from the time of that registration.

2. *Residence Requirements*

There are no fixed residence requirements at the University of Victoria for students proceeding to a Master's degree. However, see item 3 below.

3. *Course and Programme Requirements*

The minimum requirement for a Master's degree is the equivalent of one full Winter Session of study.

NOTE 1: A full Winter Session of study should be regarded as equivalent to a minimum of 15 units of work.

NOTE 2: A maximum of 18 units of credit for courses, or thesis, or both, may be granted in any twelve-month period during which a student is registered full time at the University of Victoria. A maximum of nine units of credit for course work or thesis, or both, may be granted in any twelve-month period during which a student is not registered full time at the University of Victoria.

NOTE 3: A student with an honours baccalaureate degree may normally be able to obtain a Master's degree with one full Winter Session of study.

4. *Research and Course Work*

Considerable variation is permitted in the balance between research and course work required for the degree, though most programmes include a thesis based on research.

5. *Courses Taken at Other Institutions*

On the recommendation of the Department or Faculty concerned, the Faculty of Graduate Studies may accept for credit in a graduate programme, courses taken at other institutions. However, the major portion of the work must be completed at the University of Victoria.

6. *Supervisory Committee*

There shall be a Supervisory Committee of at least three members approved by the Faculty of Graduate Studies, one of whom shall be from outside the Department or Faculty. The Committee shall recommend to the Faculty of Graduate Studies a programme of studies; it shall examine the thesis if one is required; it shall conduct a final oral examination of the candidate on his thesis or discipline, or both, the oral being chaired by the Dean or his nominee; it may conduct other examinations; it shall recommend to the Faculty of Graduate Studies that a degree be awarded to a successful candidate.

A final oral examination is required of all students registering for the first time in 1969 and following years. The result of the examination will be entered on the student's Permanent Record Card as "Complete" if the candidate is successful. If the candidate is not successful, the entry will be "Incomplete," and a degree will not be awarded.

7. *Examiner from Outside the Department or Faculty*

The Faculty of Graduate Studies shall appoint an examiner from outside the Department or Faculty concerned, who may be the outside member of the Supervisory Committee (see item 6 above). Oral examinations for the Master's degree are open to interested members of Faculty.

8. *Date of Submission of Thesis*

A thesis, where one is required, must be submitted to the Department or Faculty concerned no later than April 4 for graduation at Convocation in the Spring.

SPECIAL REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The doctoral programme requires the planning and completion of independent and original work leading to an advance in knowledge in the student's chosen field or fields of study. In addition, a broad knowledge of the field or fields of study must be demonstrated.

1. *Time Limit*

Normally, a student proceeding to the degree of Doctor of Philosophy will be required to complete all the requirements within seven years (eighty-four months) from the date of his first registration in the doctoral programme. A degree will not be awarded in less than two years (twenty-four months) from the time of that registration.

2. *Residence Requirements*

A student proceeding to the degree of Doctor of Philosophy must spend at least two Winter Sessions at the University of Victoria, except that a student entering the doctoral programme with a Master's degree may have this residence requirement reduced to one Winter Session.

3. *Course and Programme Requirements*

The minimum requirement for the degree of Doctor of Philosophy is the equivalent of two full Winter Sessions of work beyond the Master's level or three full Winter Sessions of study beyond the Bachelor's level, and satisfactory completion of the prescribed programme.

4. *Research and Course Work*

Considerable variation is permitted in the balance between research and course work required for the degree.

NOTE 1: A full Winter Session of study should be regarded as equivalent to a minimum of 15 units of work.

NOTE 2: A maximum of 18 units of credit for course work or dissertation, or both, may be granted in any twelve-month period during which a student is registered full time at the University of Victoria. A maximum of nine units of credit for course work or dissertation or both, may be granted in any twelve-month period during which a student is not registered full time at the University of Victoria.

5. *Courses Taken at Other Institutions*

On the recommendation of the Department or Faculty concerned, the Faculty of Graduate Studies may accept for credit in a graduate programme, courses taken at other institutions. However, the major portion of the work must be completed at the University of Victoria.

6. *Supervisory Committee*

A student's programme shall be under the direction of a Supervisory Committee of at least five members, approved by the Faculty of Graduate Studies. The Chairman of the Committee shall be a Faculty member under whose supervision the student is carrying out his major research. Two members of the Committee shall be chosen by the Faculty of Graduate Studies from outside the Department or Faculty in which the major research is being carried out. The Committee shall recommend the programme to the Faculty of Graduate Studies.

7. *Language Other Than English*

Ph.D. programmes may require a reading knowledge of one or more languages other than English. Language requirements will be prescribed for individual students by the Supervisory Committees according to departmental (or Faculty of Education) regulations.

8. *Candidacy Examinations*

Within two years of registration as a provisional doctoral student and *at least six months before the final examination*, a student must pass a candidacy examination in subjects relevant to the general field of his research and such other examinations, written or oral, or both, as may be required by the Supervisory Committee.

9. *Dissertation*

The results of the candidate's research must be presented in a dissertation satisfying the general requirements of the Faculty of Graduate Studies. The material must be of sufficient merit to meet the standards of scholarly publications. Where the research justifies it, the degree of Doctor of Philosophy may be awarded for the dissertation alone.

10. *Examining Committee*

The dissertation shall be assessed by an Examining Committee which will consist of the Supervisory Committee and at least two other examiners, one of whom shall be an external examiner selected by the Faculty of Graduate Studies in consultation with the Department or Faculty primarily concerned and who is an authority in the special field of research.

The final oral examination, based largely on the dissertation, shall be conducted by the Examining Committee, which will recommend a successful candidate for the degree of Doctor of Philosophy to the Faculty of Graduate Studies. The Dean of the Faculty of Graduate Studies or his nominee will act as Chairman at the final oral examination. Oral examinations for the degree of Doctor of Philosophy are open to members of Faculty.

Notice of examinations shall be communicated to all members of Faculty at least fourteen days prior to the date of the examinations.

11. *Date of Submission of Dissertation*

A dissertation must be submitted to the Department or Faculty concerned no later than March 28 for graduation at Convocation in the Spring.

ANTHROPOLOGY

The Department of Anthropology and Sociology offers separate courses of study leading to the degree of Master of Arts. This programme usually requires two years to complete, but in exceptional cases, the required time may be shorter.

Admission — In addition to transcripts, letters of recommendation, and application forms required by the Faculty of Graduate Studies, the department requires applicants to submit a recent sample of their work (term paper or Honours thesis). Ordinarily a B+ average for the last two years of University work is a minimum requirement for admission to the programme.

ANTHROPOLOGY — The Master of Arts degree in anthropology is a general degree requiring a candidate to have a broad knowledge of the subfields of the discipline. In addition to requirements and procedures specified by the Faculty of Graduate Studies, the following general comments apply.

1. Programme of Studies

CORE COURSES: Normally in the first year of graduate studies a student's programme will include the following core courses:

ANTHROPOLOGY 500, Seminar in Anthropological Theory, 3 units.

ANTHROPOLOGY 501, Seminar in Social and Cultural Theory, 1½ units.

ANTHROPOLOGY 540, Seminar in Archaeology and Culture History, 1½ units.

ANTHROPOLOGY 550, Seminar in Physical Anthropology, 1½ units.

Core courses contribute 7½ units toward the 15-unit minimum requirement for the Master of Arts degree.

THESIS: All graduate students are required to submit a master's thesis. The thesis, carrying 3 units of credit, must meet the stylistic requirements of the department and must be submitted according to a time schedule set by the department. Normally a thesis will entail specialized research in a topical area chosen in consultation with the student's supervisory committee.

OPTIONAL COURSES: Students may choose the remainder of their programmes from the departmental listings of graduate courses, and may take a maximum of 6 units of upper level undergraduate courses.

2. Length of Programme

Though most students require two years to complete a master's degree, it is possible for a student with a satisfactory background (i.e. the equivalent of a University of Victoria Honours degree in anthropology) to complete the degree in one year. The programme outlined above indicates the minimal requirements for graduate students; however, it is the responsibility of the student's supervisory committee to tailor the programme to individual needs.

For example, students who intend to enter the programme without an undergraduate major would be advised to spend a first year in upper level undergraduate courses before entering the core programme. Similarly, students who have not had courses in quantitative methods and in anthropological linguistics will be advised to elect Anthropology 416 and Linguistics 361 respectively, to correct these deficiencies.

Prospective students are urged to consult the department for guidance in planning a programme of study and for more specific information about course offerings.

The Graduate Anthropology Faculty and Current Areas of Interest

William H. Alkire (Illinois)

Ethnology, cultural ecology, Micronesia and Southeast Asia

N. Ross Crumrine (Arizona)

Structural and symbolic anthropology, mythology and religion, Latin America, Southwestern North America

Leland H. Donald (Oregon)	Social organization, cultural ecology, statistical methods, sub-Saharan Africa
Robert F. Gray (Chicago)	Social anthropology, ethnology, medical anthropology; East Africa
Robert B. Lane (Washington)	Social anthropology, ethnology, social structure, Melanesia and the Pacific, Northwestern North America
Donald H. Mitchell (Oregon)	Archaeology, cultural ecology, Northwest Coast, North American Indian

BACTERIOLOGY AND BIOCHEMISTRY

The Department of Bacteriology and Biochemistry offers courses of studies leading towards the degree of Master of Science and Doctor of Philosophy in the general area of Nutritional Biochemistry:

The general regulations governing the granting of advanced degrees as stated in Calendar pages 311-316 are applicable.

1. Examinations, oral or written, are mandatory for candidates entering the graduate programme in Biochemistry. These examinations are essential as an aid in the planning of the candidate's subsequent academic programme.
2. All graduate students are required to participate in Biochemistry 580 (Seminar) throughout the period of registration.
3. Every candidate for the M.Sc. will be required to demonstrate to the Department his capabilities in a language other than his native tongue. Ph.D. candidates must demonstrate this capability in two languages other than their own.
4. Thesis: The thesis topic is to be selected in consultation with the Department. The outcome of the thesis project will be deemed adequate if (1) it can be shown to be a new contribution to knowledge and (2) if it is acceptable for publication in a refereed Scientific Journal.

BIOLOGY

The Department of Biology offers programmes leading to the degrees of Master of Science and Doctor of Philosophy in the following general areas:

Marine Biology
 Terrestrial and Freshwater Ecology
 Plant and Animal Physiology
 Plant and Animal Morphology
 Cellular and Developmental Biology
 Systematic Biology

Faculty

George O. Mackie, D.Phil. (*Oxon.*)
 Professor and Chairman of the
 Department.

F. Thomas Algard, Ph.D. (*Stanford*)
 Professor.

Michael J. Ashwood-Smith, Ph.D.
 (*London*) Professor.

W. Gordon Fields, Ph.D. (*Stanford*)
 Professor.

Arthur R. Fontaine, D.Phil. (*Oxon.*)
 Professor.

Alan P. Austin, Ph.D. (*Wales*)
 Associate Professor.

David J. Ballantyne, Ph.D. (*Maryland*)
 Associate Professor.

Marcus A. M. Bell, Ph.D. (*Brit. Col.*)
 Associate Professor.

Derek V. Ellis, Ph.D. (*McGill*)
 Associate Professor.

Edwin M. Hagmeier, Ph.D. (*Brit. Col.*)
 Associate Professor.

John S. Hayward, Ph.D. (*Brit. Col.*)
 Associate Professor.

Louis A. Hobson, Ph.D. (*Wash.*)
 Associate Professor.

Jack L. Littlepage, Ph.D. (*Stanford*)
 Associate Professor.

John E. McInerney, Ph.D. (*Brit. Col.*)
 Associate Professor.

John N. Owens, Ph.D. (*Ore. St.*)
 Associate Professor.

Robert G. B. Reid, Ph.D. (*Glasgow*)
 Associate Professor.

Richard A. Ring, Ph.D. (*Glasgow*)
 Associate Professor.

E. Derek Styles, Ph.D. (*Wis.*)
 Associate Professor.

Patrick T. Gregory, Ph.D. (*Manitoba*)
 Assistant Professor.

Areas of Research

Behavioural Physiology and
 Ultrastructure of Marine Invertebrates:
 Coelenterates.

Developmental Biology; Growth &
 Differentiation *in vitro*.

Ultra-Violet Photobiology and
 Mechanisms of Mutation Induction.

Embryology and Natural History of
 Marine Invertebrates;
 Cephalopods.

Functional Morphology of Marine
 Invertebrates: Echinoderms.

Marine and Freshwater Phycology.

Plant Physiology: Extraction of Phyto-
 hormones Mode of Action of Phyto-
 hormones and Air Pollutants.

Ecology: B.C. Vegetation; Urban and
 Regional Landscape; Pollution.

Marine Ecology: Sediment Benthos.

Terrestrial and Freshwater Ecology.

Environmental Physiology: Temperature
 Adaptation in Homeotherms;
 Hyperbaric oxygenation.

Biology Oceanography:
 Phytoplankton Ecology and Physiology.

Biological Oceanography:
 Zooplankton Physiology and Ecology.

Behaviour and Physiology of Fishes.

Plant Anatomy; Morphogenesis and
 Reproduction of Conifers.

Physiology of Marine Invertebrates.

Physiology and Ecology of Insects.

Plant Genetics; Flavonoid biosynthesis:
 Paramutation.

Population Ecology of Reptiles and
 Amphibians.

John W. Paden, Ph.D. (*Idaho*)
Assistant Professor.

Miles Paul, Ph.D. (*Stanford*)
Assistant Professor.

Mycology: Ascomycete Morphology and Systematics; Soil Microbiology.

Developmental Biology; Marine Invertebrate Embryology.

Facilities

Facilities available include herbarium, greenhouses, constant environment rooms, equipment for radioisotope analysis, an electron microscope laboratory and a closed-circulation seawater system. Ships are available for oceanographic work. The campus computing centre has an IBM 370 Model 145, with 512 K storage and standard ancillary equipment. Marine, terrestrial and limnological environments permit field work throughout the year.

Applications

Initial enquiries regarding graduate studies in Biology should be addressed to the Chairman, Graduate Studies Committee, Department of Biology. Application forms may be obtained from the Secretary of the Faculty of Graduate Studies.

Consideration of an applicant is dependent on a Departmental Faculty member first agreeing to become his Supervisor. If the applicant is admitted, the Supervisor will recommend a list of individuals to act as a Supervisory Committee under his Chairmanship.

Applicants to the Department of Biology should arrange to take the GRE (Graduate Record Examination) and submit the results to the Faculty of Graduate Studies together with their application forms. Applicants whose native language is not English should, in addition to the GRE, write the TOEFL (Test of English as a Foreign Language) and submit the scores to the Faculty of Graduate Studies together with their application forms and GRE results.

All M.Sc. and Ph.D. candidates admitted to the Department of Biology are expected to have or to make up a background knowledge of basic biology at least equivalent to that of a B.Sc. student graduating from this department.

Applications from students with a first class academic record will be considered for recommendation at any time. Applications from students who have less than a first class average will not normally be considered until the end of February, when all such applications will be considered and evaluated together. Applicants with less than a B+ average or its equivalent in their last two years of work will not normally be recommended for admission by the Department of Biology.

CHEMISTRY

The Department offers programmes of study leading to the degrees of Master of Science and Doctor of Philosophy. Research areas include the following: Organometallic chemistry; fluorine chemistry; transition metal chemistry; inorganic photochemistry; hydrides of silicon, boron, and transition metals; multinuclear NMR studies; synthetic organic chemistry; natural products; biogenesis; physical organic chemistry; photochemistry; kinetics and mechanisms; free radical chemistry; carbohydrate chemistry; structural studies; x-ray crystallography; molecular spectroscopy; electrode kinetics; surface phenomena; solid state luminescence; electron impact phenomena; molecular orbital calculations.

Amongst the many modern research instruments available are: high resolution mass spectrometer, x-ray diffractometer, Mössbauer spectrometer, gas chromatographs, ESR and multinuclear NMR facilities, infrared and ultraviolet spectrometers, gas chromatographs, G.C./M.S., laser interferometers, signal averager, PDP11 and IBM 370/145-512K computers.

Because of the varied backgrounds of students entering graduate school, the Department requires all entering graduate students to take a set of orientation examinations soon after their arrival. Students showing deficiencies in their knowledge of fundamental chemistry will be required to make good the deficit by approved reading or by taking and passing the appropriate undergraduate courses. Normally one year will be allowed for the removal of such deficiencies. Failure to achieve a minimum of B- in an undergraduate chemistry course will normally result in the student being asked to withdraw.

Candidates for graduate degrees are required to complete Chemistry 599 (M.Sc. Thesis) or 699 (Ph.D. Dissertation). They are also required to take Chemistry 509 (Seminar) throughout their period of registration. In addition, candidates for the M.Sc. degree are required to complete at least 9 units of graduate courses in Chemistry. For the Ph.D. degree 15 units of graduate courses in Chemistry are normally required. In both cases substitution of appropriate courses from other departments may be made with the permission of the candidate's supervisory committee.

The graduate studies faculty and their major fields of research are:

Walter J. Balfour, Ph.D. (<i>McMaster</i>)	Electronic spectroscopy.
Graham R. Branton, Ph.D. (<i>Southampton</i>)	Photoelectron spectroscopy and electron impact phenomena.
Gordon W. Bushnell, Ph.D. (<i>West Indies</i>)	Crystallography.
Thomas W. Dingle, Ph.D. (<i>Alta.</i>)	Theoretical chemistry.
Keith R. Dixon, Ph.D. (<i>Strathclyde</i>)	Transition metal and organometallic chemistry.
Alfred Fischer, Ph.D. (<i>N.Z.</i>)	Physical organic chemistry.
Sidney G. Gibbins, Ph.D. (<i>Wash.</i>)	Hydrides of silicon, boron and transition metals.
Martin B. Hocking, Ph.D. (<i>Southampton</i>)	Synthetic and physical organic chemistry; pollution control.
Alexander D. Kirk, Ph.D. (<i>Edinburgh</i>)	Photochemistry and luminescence of coordination compounds.
R. H. Mitchell, Ph.D. (<i>Cantab.</i>)	Synthesis of novel aromatic hydrocarbons.
Robert N. O'Brien, Ph.D. (<i>Manchester</i>)	Electro and surface chemistry.
Gerald A. Poulton, Ph.D. (<i>Sask.</i>)	Natural products.
Frank P. Robinson, Ph.D. (<i>Alta.</i>)	Organic synthesis; Physical organic chemistry.
Stephen A. Ryce, Ph.D. (<i>Brit. Col.</i>)	Accommodation pumping; Fission theory.
Paul R. West, Ph.D. (<i>McMaster</i>)	Electron spin resonance; Organic free radical reaction mechanisms.

CLASSICS

The Department of Classics offers a programme of studies leading to the degree of Master of Arts, in the two areas:

Greek Literature

Latin Literature

Studies will concentrate variously on the playwrights, epic and lyric poets, historians, and on particular ages such as the Periclean and Augustan periods. A total of at least 15 units of work is required. Proficiency in reading either French or German or Italian must be demonstrated. For further information, please consult the Chairman of the Department and read the Department's entry in the undergraduate section of this calendar.

Faculty and Fields of Research:

- G. J. D. Archbold, B.A. (*Brit. Col.*), M.A. (*Cincinnati*), Associate Professor: Roman Imperial History.
- D. Campbell, M.A. (*Glasgow*), M.A. (*Oxon.*), Professor: Greek and Latin Lyric and Elegiac Poetry.
- J. G. Fitch, B.A., M.A. (*Cantab.*), Lecturer: Greek and Roman Tragedy, Latin Epic.
- H. H. Huxley, M.A. (*Cambridge*), M.A. (*Dublin*), F.I.A.L., Professor: *The Greek Anthology*, Augustan and later Latin Poetry. (On study leave 1974-75.)
- G. S. Shrimpton, B.A., M.A. (*Brit. Col.*), Ph.D. (*Stanford*), Assistant Professor: Greek History, Ancient Historiography.
- P. L. Smith, B.A. (*Brit. Col.*), M.A., Ph.D. (*Yale*), Associate Professor: Roman Comedy, Augustan Latin Poetry.

ECONOMICS

The Department of Economics offers courses of studies leading towards the degree of Master of Arts. The programme is designed for completion in one year. Facilities are available for programmes in International Trade and Economic Development, Regional and Urban Economics and Natural Resources Economics, Economic History, Industrial Organization and Public Policy, and others.

EDUCATION

The Faculty of Education offers programmes of study leading to the degree of M.A. in the following areas:

Educational Psychology
Educational Administration
Curriculum and Instruction.

The Faculty also offers programmes leading to the M.Ed. degree. The general regulations for this degree will be as follows:

- (i) The Master of Education degree will require at least 18 units of course work, of which no more than 9 units may be at the 300 and 400 level. A comprehensive final examination, (written and/or oral) will be required. A project in research and/or development may be required, as determined by the Faculty of Education.
- (ii) The usual admission requirements of the Faculty of Graduate Studies should be met and, in addition, applicants must have had at least 3 years of successful relevant professional experience.

However, applicants who do not meet the normal admission requirements of the Faculty of Graduate Studies may be granted conditional admission to the M.Ed. programme, provided the applicant:

- (a) holds a recognized bachelor's degree
- (b) has successful relevant professional experience for a minimum of five years as attested to by at least two supervisors of the applicant's work
- (c) is recommended for admission by the Faculty of Education and approved by the Admissions Committee of the Graduate Faculty.

Formal admission to the M.Ed. programme for conditionally-admitted students will be granted to those who have achieved a "B" average, with no grade less than a "B—" on the first six units of work in the programme.

The Faculty also offers programmes leading to the Ph.D. degree in Educational Psychology.

ENGLISH

The aim of the Department is to prepare students thoroughly for scholarship, criticism, and teaching. It is our policy to avoid unnecessary duplication by a proliferation of courses or seminars at the graduate level. To that end, we shall accept good grades in senior courses from approved institutions as evidence of satisfactory achievement in periods, themes, figures, or genres of literary study.

Because of the varied backgrounds of students entering upon graduate work with the B.A. or M.A. degree, it is difficult to stipulate requirements which must be met on entry to the programme. We believe, therefore, that it is more profitable to specify what a candidate for an advanced degree shall have done before he is permitted to work entirely on his thesis or dissertation. He should possess the following:

1. A familiarity with the major figures, themes, movements, and genres of English literature from the seventh century to the present day.
2. A familiarity with the major features of the English language, and some knowledge of the outlines of the development of standard literary English.
3. A familiarity with research methods and problems.
4. A familiarity with the spectrum of literary criticism and with the major movements which have affected the criticism of English and American literature.
5. A detailed knowledge of the theme, movement, genre, or figure, with which a student's research is to be concerned.
6. An extensive knowledge of a field related to, or embracing, the subject of his specialization.
7. Normally a good reading knowledge of one language other than English for the M.A., and of two for the Ph.D.

Thus, before he is permitted to work entirely on his thesis or dissertation, a graduate student will have completed the following programme:

- (a) Courses, generally at the 400 level, to fulfill the requirements of 1 and 2 above.
- (b) Two seminars, English 500 and English 501 (except where the equivalent has been done elsewhere), to provide for the requirements of 3 and 4 above.
- (c) Two or more seminars in appropriate fields, to meet the requirements of 5 and 6 above.
- (d) Any studies entailed by 7 above.

Those offered places will receive provisional programmes of study, which will be subject to confirmation on their arrival and which may be modified later.

MASTER OF ARTS

The M.A. degree is offered in English, American, and Commonwealth Literature. The basic programme consists of courses, seminars, and a thesis. A total of at least 15 units of work is required. However, since the thesis may be valued at from 3 to 15 units, and since the M.A. may be obtained in special circumstances by course work or by thesis only, allowance is made for considerable diversity in the nature of the work undertaken for the degree. A general examination (which may be written or oral) will be required. Proficiency in reading a language other than English must be demonstrated.

DOCTOR OF PHILOSOPHY

Full-time candidates for the Ph.D. entering with an M.A. degree may normally expect to complete the requirements for the degree (including the dissertation) in two years.

Full-time candidates entering with a B.A. degree must in the first place complete the course and seminar requirements for the M.A. degree. Upon the recommendation of the Graduate Committee, the M.A. thesis may be waived for outstanding candidates, who may be permitted to proceed to their Ph.D. seminars and dissertations.

Any doctoral candidate may request that previous graduate work be taken into consideration in the assessment of his course or seminar requirements, although the major part must be done at Victoria.

A full-time provisional doctoral student must have passed a candidacy examination by the end of his second year if he has entered with a B.A.. If he has entered with an M.A., he may take this examination at the end of his first year.

The candidacy examination will normally consist of the following:

- (a) A written examination on bibliography and methods of research and criticism, if such an examination has not already been taken;
- (b) Two written examinations of three hours each on the periods, areas of study, themes, figures, or genres concerning which he will write his dissertation;
- (c) A written examination of three hours on his minor field, which will often be a contiguous area of study.

Prior to the candidacy examination, a student must give evidence of proficiency in reading two languages other than English, both of which must normally relate to the field of study for his dissertation. A doctoral dissertation must be the result of original research of sufficient merit to meet the standards of scholarly publication. In exceptional circumstances, where the research justifies it, the degree of Doctor of Philosophy may be awarded for the dissertation alone.

FRENCH LANGUAGE AND LITERATURE

The Department of French Language and Literature offers a Master's degree to qualified students in two fields, Classical Studies and Modern Studies.

It is expected that such applicants will be students from Canadian and American universities with a B.A. (Honours or Major) degree in French; students from British universities with a B.A. (Honours) in French or in the case of Scottish universities an M.A. (Honours) in French, with first- or second-class, Division I, standing; and students from elsewhere with equivalent training.

The Department, as well as the Faculty of Graduate Studies, will make a careful assessment of each student's background before he is admitted to the programme.

1. A minimum of fifteen units will be required for the M.A. in French Studies.
2. Candidates graduating from the University of Victoria will be expected to have completed a minimum of eight courses, (24 units) at the third- and fourth-year levels, usually including French 302, 402, 425, 409, 410, one nineteenth-century and one twentieth-century literature course.

Other candidates will be expected to have completed a similar programme, or be prepared to take the appropriate undergraduate courses before registering for the Master's degree programme. Graduate credit may, under certain circumstances, be assigned for part of this work.

3. Normally, the M.A. will include the preparation of a thesis, to be written in French, of approximately twenty thousand to twenty-five thousand words, the subject to be chosen in consultation with the Department from one of the two fields mentioned above. Six units of credit will be assigned to the thesis.
4. Provision has been made for awarding an M.A. degree consisting of a minimum of fifteen units of course work. In this case, comprehensive written and oral examinations will be required of the candidate in addition to those assigned by each instructor.
5. Candidates will be required to possess a reading knowledge of English. In addition, candidates must satisfy the Department that they have a working knowledge of Latin or another approved language.

GEOGRAPHY

The Department of Geography offers courses of study and research leading to an M.A. degree. Individual programmes may be arranged in economic, urban, resources, physical and regional geography with emphasis on Canada, especially Western Canada, and the Pacific Basin.

Candidates may also be accepted for programmes of study leading to the degree of Ph.D.

The Faculty and Research Interests are:

M. C. R. Edgell, Ph.D. (Birmingham 1967)	Biogeography; Resources; Australia
B. H. Farrell, Ph.D. (Auckland 1959)	South Pacific; Cultural; Land Use
C. N. Forward, Ph.D. (Clark 1958)	Urban; Ports; Canada
H. D. Foster, Ph.D. (London 1968)	Geomorphology; Hydrology
C. H. Howatson, M.A. (British Columbia 1947)	Western Canada; Geology
D. C.-Y. Lai, Ph.D. (London 1967)	China; Industrial; Urban
F. M. Leversedge, B.A. (British Columbia 1963)	Soviet Union; Economic; Resources
M. A. Micklewright, Ph.D. (Washington 1970)	Economic; Cartography
P. E. Murphy, Ph.D. (Ohio State 1970)	Urban; Behavioural; Quantitative
J. D. Porteous, Ph.D. (Hull 1969)	Urban; Social
W. R. D. Sewell, Ph.D. (Washington 1964)	Resources; Behavioural
S. E. Tuller, Ph.D. (California, Los Angeles 1971)	Climatology
R. Wikkramatileke, Ph.D. (London 1955)	Southeast Asia; Cultural
C. J. B. Wood, Ph.D. (McMaster 1970)	Economic; Resources; Quantitative

HISTORY

The department offers two programmes leading to the M.A. degree: (1) by thesis, and (2) by course work. Admission to either programme normally requires a Bachelor's degree with a minimum overall average of B+ (75% or high Second Class), or a Bachelor's degree with a minimum average of A- (80% or First Class) in the final year's work. A candidate with background deficiencies in history may be required to register for a year as an unclassified student or to spend a year as a qualifying graduate student before being admitted to a degree programme.

Thesis Option

A student electing the thesis option will normally write a thesis of approximately 50,000 words, and must successfully defend this thesis in an oral examination. He will also be required to complete a graduate seminar in a field other than that of his thesis. Facilities are available for thesis work in Canadian history (particularly British Columbia and Canadian military history), and limited topics in other areas, such as intellectual, diplomatic, British, and western American history. The university's McPherson Library has holdings in excess of one-half million volumes, and graduate students may also be granted access to the Provincial Library and Archives, which include notable manuscript collections relating to western Canada and the northwestern United States.

Course-work Option

A student electing the course-work option will select four seminars from the following offerings: Seminar in American History, Seminar in British History, Seminar in Canadian History, Seminar in B.C. History, Seminar in Canadian Defence Policy, and Seminar in European History. In addition, a Seminar in Specialized Topics will be offered in some years, which may feature topics in historiography, diplomatic, intellectual, or western Canadian history.

In special circumstances, and with the consent of the department, the candidate may make substitutions as follows:

(1) Directed Reading in history for *one* seminar course;

OR

(2) A three unit course at the graduate level in a cognate discipline other than history for *one* seminar course;

OR

(3) One Directed Reading course in history and one graduate course in a cognate discipline for a maximum of *two* seminar courses.

The candidate will also write an extended research paper of approximately 12,000 words under the direction of the instructor of one of his courses within the department. This will be read and assessed by two members of the department in addition to the instructor giving the course. At the end of his course, the candidate will be orally examined in his general competence in the discipline of History.

General

All candidates for the M.A. degree must demonstrate a reading knowledge of French or some other language acceptable to the department to qualify for graduation. Language examinations will be administered in the months of October, January, and March each year.

Students are normally admitted for study beginning in September and must complete all requirements by April 15 to graduate in May. Part-time study is permitted, but the degree must be completed within five years of the initial registration.

Although there are no formal residence requirements, residence is recommended.

The faculty and major fields of interest:

- H. J. Bridgman, M.A. (*Queen's*), Pre-Confederation Canada.
- B. W. Dippie, Ph.D. (*Texas*), Intellectual-cultural; Nineteenth Century U.S.
- E. R. Forbes, M.A. (*Dalhousie*), Post-Confederation Canada.
- C. S. M. Girard, Ph.D. (*Bryn Mawr*), Twentieth Century Diplomacy; Modern France.
- J. E. Hendrickson, Ph.D. (*Ore.*), British Columbia; American West.
- S. W. Jackman, Ph.D. (*Harvard*), Nineteenth Century Britain.
- T. J. Kupp, Ph.D. (*Man.*), New France.
- A. E. Loft, B.A. (*Brit. Col.*), Canada. (On study leave 1974-75.)
- R. J. McCue, Ph.D. (*Brigham Young*), Sixteenth Century Europe.
- J. Money, Ph.D. (*Cantab.*), Eighteenth Century Britain.
- P. E. Roy, Ph.D. (*Brit. Col.*), Post Confederation Canada, British Columbia.
- R. H. Roy, Ph.D. (*Wash.*), Military History; Canada.
- D. L. Senese, Ph.D. (*Harvard*), Nineteenth and Twentieth Century Russia.
- W. G. Shelton, Ph.D. (*Penn.*), Intellectual History.
- P. M. Sherrin, M.A. (*Carleton*), French Canada; Canadian Intellectual and Social History.
- D. A. T. Stafford, Ph.D. (*London*), Twentieth Century Europe.
- E. P. Tsurumi, Ph.D. (*Harvard*), Modern Japan. (Leave of absence 1974-75.)
- W. T. Wooley, Ph.D. (*Chicago*), U.S. Diplomacy; Urban History. (On study leave 1974-75.)

HISTORY IN ART

The Department offers courses of study leading to the degree of Master of Arts.

LINGUISTICS

The Department of Linguistics offers programmes of study and research leading to the degrees of Doctor of Philosophy and Master of Arts in the following areas:

1. Theoretical Linguistics, especially as this applies to grammatical theory, phonological theory, experimental phonetics, psycholinguistics.
2. Applied Linguistics, especially as this applies to Canadian English, dialectology, lexicography, English for non-native speakers, languages of the Pacific Rim, and indigenous languages of the Northwest.

MATHEMATICS

1. The Department of Mathematics offers graduate programmes leading to the degrees of Master of Arts and Master of Science in Pure Mathematics, Applied Mathematics, Computing Science, and Statistics.
2. Potential graduate students who wish to obtain a Master's degree in Mathematics will be required to satisfy the following requirements.
The student should normally have the equivalent of an honours degree in Mathematics in one of the emphasis areas as listed in the University of Victoria Calendar. A student without this background will be required to make up any deficiency. In so doing, he is expected to obtain a grade of at least a B (5.0) in each such make-up course, and an average of at least B+ (6.0) overall in his make-up courses.
3. Each graduate student must, in addition, complete a programme of study consisting of a minimum of fifteen units, made up of either
 - a) at least 12 units at the 500 level or higher, and the remainder at the 400 level or higher, or
 - b) a thesis and 8 units at the 500 level or higher, and the remainder at the 400 level or higher.
 It should be emphasized that this is a minimum requirement, and additional work may be required of individual students.
4. Math. 581 Directed Studies. It is possible, under certain circumstances, with the approval of the Graduate Committee, for a student to take directed studies under the supervision of a faculty member.
5. A graduate student is governed by the Departmental regulations in force at the time of his initial graduate registration.
6. For each graduate student there shall be a Supervisory Committee of at least three members approved by the Faculty of Graduate Studies, one of whom shall be from outside the Department. The Committee shall recommend to the Department Head and then to the Faculty of Graduate Studies a programme of studies. For a thesis candidate the committee shall examine the thesis and conduct a final oral examination of the candidate on his thesis. For a non-thesis candidate the committee shall conduct both a written and an oral examination of the candidate on his discipline. In both cases, the final oral will be chaired by the Dean of Graduate Studies or his nominee. The Committee may conduct other examinations. The Department Head and the Committee shall recommend to the Faculty of Graduate Studies that a degree be awarded to a successful candidate.
7. The student is responsible for familiarizing himself with other regulations as outlined in the University Calendar and the Calendar of the Faculty of Graduate Studies.

Faculty and Fields of Research:

- A. P. Baartz, Ph.D. (*Ore.*), Analysis.
- I. Barrodale, Ph.D. (*Liverpool*), Numerical Analysis, Operations Research, Computing Science.
- L. Bowden, Ph.D. (*London*), Heuristics.
- S. R. Clark, Ph.D. (*Manchester*), Computing Science, Simulation.
- E. J. Cockayne, Ph.D. (*Brit. Col.*), Combinatorics.
- R. R. Davidson, Ph.D. (*Florida State*), Statistics.
- F. E. Deloume, Ph.D. (*U.S.C.*), Applied Mathematics.
- B. L. Ehle, Ph.D. (*Waterloo*), Numerical Analysis, Computing Science.

- W. R. Gordon, Ph.D. (*Calif., Santa Barbara*), Linear and Multilinear Algebra.
- W. K. Hastings, Ph.D. (*Tor.*), Statistics.
- D. E. Hewgill, Ph.D. (*Brit. Col.*), Partial Differential Equations.
- L. A. Hinrichs, Ph.D. (*Ore.*), Geometry, Topology.
- A. Hurd, Ph.D. (*Stanford*), Nonstandard Analysis, Dynamical Systems, Partial Differential Equations.
- S. A. Jennings, Ph.D. (*Tor.*), Algebra.
- B. R. Johnson, Ph.D. (*Ore.*), Mathematical Statistics, Probability.
- D. E. Kennedy, M.A. (*Brit. Col.*), Algebra.
- W. P. Kotorynski, Ph.D. (*Tor.*), Differential Equations.
- D. J. Leeming, Ph.D. (*Alta.*), Approximation Theory.
- R. A. MacLeod, Ph.D. (*Alta.*), Number Theory.
- C. R. Miers, Ph.D. (*Calif., Los Angeles*), Functional Analysis.
- D. J. Miller, Ph.D. (*McMaster*), Algebra, Graph Theory.
- G. G. Miller, Ph.D. (*Missouri*), Topology.
- C. E. Murley, Ph.D. (*Wash.*), Homological Algebra, Abelian Group Theory.
- O. P. Noble, B.A. (*Brit. Col.*), Mathematics Education.
- R. E. Odeh, Ph.D. (*Carnegie Inst. of Tech.*), Statistics, Computing Science.
- D. D. Olesky, Ph.D. (*Tor.*), Numerical Analysis, Computing Science.
- W. E. Pfaffenberger, Ph.D. (*Ore.*), Banach Algebras, Operator Theory, Harmonic Analysis.
- J. Riddell, Ph.D. (*Alta.*), Number Theory.
- F. D. K. Roberts, Ph.D. (*Liverpool*), Numerical Analysis, Operations Research, Computing Science.
- E. D. Rogak, Ph.D. (*Mich.*), Functional Analysis, Partial Differential Equations, Optimal Control.
- M. Shinbrot, Ph.D. (*Stanford*).
- H. P. Smith, M.A. (*Wash.*), Mathematics Education.
- H. M. Srivastava, Ph.D. (*Jodhpur*), Analysis, Applied Mathematics, Mathematical Physics.
- P. van den Driessche, Ph.D. (*Wales*), Applied Mathematics, Differential Equations.

MUSIC

Apart from the regulations specified by the Faculty of Graduate Studies in the current Calendar, the Department of Music requires of students in musicology the following special qualifications:

M.A. AND Ph.D. IN MUSICOLOGY

Admission

An applicant is requested to send, along with official transcripts of previous college study, examples of his or her work in the field of music history, such as honors papers or Master's thesis, which will be returned.

Language requirement

M.A. A *good* reading knowledge of German and French is required *before* admission. Applicants with a reading knowledge of another foreign language may be accepted provisionally, but must demonstrate their proficiency in German and French to the Department by December of their first year of graduate study at the University of Victoria. A reading knowledge of other foreign languages may be required if necessary to the applicant's intended field of specialization. Courses taken to fulfill this requirement are considered remedial, and units earned thereby will not be counted toward the course requirements.

Ph.D. Same requirements as above upon entering, but student must also pass a reading examination in French and German before December of his second year of residence.

A reading knowledge of other foreign languages may be required if necessary to the applicant's intended field of specialization.

Comprehensive examinations

Comprehensive examinations in Theory, History, and Musicology may be taken in December or April each year. Full-time M.A. students are required to complete these to the Department's satisfaction by the end of their first year in the programme. Part-time M.A. students will be advised during their first year in the programme when they should expect to complete these examinations.

Ph.D. dissertation prospectus

A prospectus will be required for submission to the student's advisory committee and should include 1) a description of the research situation in the chosen field of study, including detailed, specific references to existing published studies, their scope and limitations; 2) a precise statement of the research problem or problems upon which the dissertation is to focus, and a summary of the proposed plan of study; 3) a description of the state of the primary source materials and their immediate availability; and 4) as an appendix, a selected but comprehensive bibliography (preferably annotated) of *directly* relevant books and articles.

M.A. Thesis

The thesis should be completed during the last term of residence.

Ph.D. Dissertation

This should be a significant contribution to original musicological research.

M.MUS. IN PERFORMANCE

It is preferable for an applicant to visit the department for an interview and audition in his performance medium. When that is impractical, a high quality tape recording must suffice. This should be of at least thirty minutes duration and present solo playing of two or more works in contrasting style. Acceptance via tape is always provisional pending audition in person upon arrival in September.

Acceptance for the M.Mus. in Performance requires specialization at advanced level in a specific performance medium (for example, trumpet, piano, voice.) Further growth as a soloist and ensemble participant is a degree requirement, formal evidence of which is demonstrated through the candidate's degree recital and in concerto or solo performances with the University Orchestra.

The candidate's individual programme is devised to accomplish this and to complement it with study of related areas, e.g. conducting, performance practices, composition, theory, music history, theatre, history in art, languages.

PHILOSOPHY

The Department of Philosophy offers a programme of graduate study leading to the degree of Master of Arts. Students will concentrate mainly on the writing of a thesis, under the supervision of a member of the Department. Topics may be taken from the areas of Metaphysics, Epistemology, Ethics, Philosophy of Religion, Philosophy of Mind, Philosophy of Language, Social Philosophy and Political Philosophy. A supplement of course work, fitted to individual needs and interests, may also be prescribed. Normally this would not exceed two courses. To qualify for admission, however, candidates should have a good Honours degree in Philosophy or its equivalent.

PHYSICS

The Department of Physics offers programmes of study and research, leading to the degrees of M.Sc. and Ph.D. The graduate courses offered are listed under Faculty of Arts and Science, Department of Physics.

Close contact is maintained with the Defence Research Establishment Pacific, the Dominion Astrophysical Observatory, and the Victoria Magnetic Observatory.

Astronomy and Astrophysics

Observational and theoretical studies which may be carried out in conjunction with the Dominion Astrophysical Observatory at Victoria.

Geophysics

Geomagnetism and space physics, plasma studies, upper atmosphere physics.

Nuclear Studies

Intermediate energy physics with TRIUMF, nuclear magnetic resonance.

Physics of Fluids

Acoustics, gas dynamics and kinetic theory of gases.

Theoretical Physics

General relativity, nuclear and particle physics.

POLITICAL SCIENCE

The Department of Political Science offers courses of study leading to the degree of Master of Arts.

There are three paths for the attainment of the degree:

Path A: Either (i) 12 units of course work (with a maximum of 6 units in courses at the 300 and 400 levels) with 3 units of thesis work plus an oral examination on the thesis.

Or (ii) 9 units of course work (with a maximum of 3 units in courses at the 300 and 400 levels) with 6 units of thesis work and an oral examination on the thesis.

Path B: 15 units of course work (with a maximum of 6 units at the 300 and 400 levels), with a general examination on all the materials studied in the courses plus an oral examination on the performance in the general examination.

Path C: Legislative Internship: Students admitted to the Provincial Legislative Internship Programme may obtain 6 of the 15 units required under Path B on completion of an intern report and examination. Those taking Path C must successfully complete at least 3 units of graduate course work prior to their internship in the spring term.

(It should be noted that admission as an M.A. student in political science does not necessarily guarantee acceptance as an intern, or vice versa.)

Further information with respect to this programme may be obtained from the Political Science departmental office.

Students will be required to prepare their respective curriculum in consultation with their Departmental Committee.

PSYCHOLOGY

The Department of Psychology offers programmes of study leading to the degrees of M.A. and M.Sc. Candidates may also be accepted for programmes of study leading to the degree of Ph.D.

The areas in which graduate training in psychology leading to the Ph.D. is offered include neuropsychology, experimental psychology, and social psychology. The department also offers training in clinical psychology, but the student must specialize in one of the above three areas and consider his clinical training as additional to his academic training.

An outline of the Departmental regulations regarding the suggested course of graduate studies and examinations is available from the Department secretary.

SOCIOLOGY

The programme leading to the Master's degree in sociology is designed to maximize options and flexibility for students as well as to reflect the diversity that characterizes the discipline. Courses of study are individually designed to fit student interests and supplement areas of sociology in which they may require additional work.

1. *Programme of Studies*

All students are required to complete a minimum of 15 units of prescribed calendar listings. Of these, 12 units must be at the graduate level. Other than in exceptional cases, only 3 of these graduate units will represent the student's thesis; the remainder being drawn from departmental listings in the calendar. All students are required to demonstrate competence in sociological theory (Soc. 500), the methodology of sociological research design (Soc. 511) and data analysis, as well as quantitative-statistical techniques (Soc. 510). Ordinarily such competence shall be demonstrated by successful course completion; however, the abilities and prior performances of entering students shall be considered in the planning of their programmes—both in terms of particular courses and the unit values required. In addition, students may be expected to participate in a departmental seminar as part of their degree programme.

Other listings are designed to facilitate the range of interests displayed by traditional and contemporary sociological inquiry (Soc. 530, 535, and 590). These may capitalize on the university's computer facilities; the library's Human Relations Area Files holdings; the department's small groups laboratory; and the British Columbia Provincial Archives. The range of such interests is illustrated by the current areas of interest declared by the sociology faculty (see below).

2. *Length of Programme*

Students may ordinarily expect to spend two years completing the Master's degree, although especially qualified students—an Honours degree in sociology with at least a B+ average in Sociology—may require as little as a year.

The Graduate Sociology Faculty and Current Areas of Interest

Donald W. Ball (UCLA)	Family; sociology of sport; cross-cultural analysis
Elaine Cumming (Radcliffe-Harvard)	Medical sociology; the life cycle
Robert Hagedorn (Texas)	Formal organizations; industrial sociology
Alan Hedley (Oregon)	Methodology; formal organizations
Daniel J. Koenig (Illinois)	Political sociology, deviant behaviour, social thought
Leonard M. Thornton (Illinois)	Social stratification; political sociology
T. Rennie Warburton (London)	Canadian society; religion
Roy E. L. Watson (Toronto)	Social welfare institutions; occupations

THEATRE

The Department of Theatre in the Faculty of Fine Arts offers programmes of study leading to the degrees of M.F.A., in Theatre, in the following areas: direction/production and design/production; and M.A., in theatre history. In all degree programmes the candidate will be expected to participate in departmental productions.

FACULTY OF LAW

F. Murray Fraser, B.A., LL.B. (*Dalhousie*), LL.M. (*London*), Dean of the Faculty.

The Faculty of Law will accept its first students in September 1975. Applications for admission to the Faculty will be available some time during the 1974-75 academic year. At the time this Calendar went to press the programme had not been determined. Enquiries should be directed to the Dean of the Faculty after July 1, 1974.

SCHOOL OF PUBLIC ADMINISTRATION

G. Neil Perry, B.A. (*Brit. Col.*), M.P.A., A.M., Ph.D. (*Harvard*), LL.D. (*Brit. Col.*),
Professor and Director of the School.

Thomas A. Lambe, B.A.Sc. (*Brit. Col.*), M.S., Ph.D. (*Stanford*), Associate Professor.

MASTER OF PUBLIC ADMINISTRATION PROGRAMME

Commencing September 1974 Senate has authorized the School of Public Administration to offer a course of inter-disciplinary studies leading to the degree of Master of Public Administration. Designed to assist students to acquire an ability to cope with problems rather than simply a capacity to perform an existing, complex function or task, the general thrust of this introductory programme is oriented towards the future needs of professional practitioners.

Admission: The normal admission requirements of the School of Public Administration for the M.P.A. programme are: an undergraduate degree in any discipline from a recognized university, or its equivalent, with an academic standing that is acceptable to the School. In general, this would mean either a second-class standing or better in the final two years of the undergraduate degree, or other evidence that the candidate can be expected to complete the graduate programme successfully.

Because the M.P.A. programme is open to students from a broad range of disciplines, the School anticipates applications from persons with undergraduate backgrounds in such varied fields as political science, economics, business administration, philosophy, history, social work, engineering, public health and other subjects in the social and physical sciences and humanities. Although there is no formal requirement with respect to undergraduate courses, students will find it helpful to come to the School with some preparation in the social sciences, as well as in the nature of Canadian social and political structures and processes, a basic preparation in economics and statistics, a familiarity with computer programming, and some evidence of a capacity to perform acceptably as a professional practitioner. Preparatory course work (or auditing) may be recommended in those instances where the lack of an adequate background is judged likely to be a handicap for the student.

PROGRAMME OF STUDIES

Each candidate for the degree of Master of Public Administration is permitted to design, with a faculty advisor, a study plan appropriate to the student's career plans and previous experience. The degree of M.P.A. is awarded upon the satisfactory fulfillment of the approved study plan and, in some cases, an internship. The programme of studies normally requires two years of full-time study but students admitted under the Mid-Career Option — described later — can meet the requirements in less time.

In the *regular programme*, each study plan normally comprises thirty units (at least eighteen of which must be at the graduate level) and consists of:

- (a) a set of five, required 'core' courses (15 units), at least two of which must be taken in the first year — if a student can demonstrate proficiency in a 'core' course, an elective may be submitted;
- (b) electives (12 units);
- (c) a *report* requirement (PA 599, 3 units); and
- (d) an internship requirement.

Report requirement:

In place of a thesis, every M.P.A. candidate is required to prepare a *report* — within a stipulated time-frame, embodying the results of the student's investigation of an issue or designated problem. The student is expected to meet the deadline and to present and defend the report before a faculty panel: whose evaluation rests, among other things, on the adequateness of the analytical methodology employed, the identification of the various courses of action which might be considered, and on the merits of the student's own recommended policy.

Internship requirement:

An internship requirement for candidates without previous professional experience is an important element in the M.P.A. programme. This requirement can be served during the summer months between the first and second years, or after the required course work has been consummated, or at other times with the consent of the Director of the School. Students are encouraged to find their own placements, but the School will participate both in arranging suitable internships and in providing any necessary liaison or monitoring services.

Language requirement:

Normally there is no language requirement for the M.P.A. degree, but, when proficiency in a particular language — in addition to English — is a prerequisite for the student's professional career aspirations, up to six units of relevant course work from the twelve units of electives may be taken for that purpose.*

Mid-Career Option:

There are points in a professional practitioner's career at which it is timely to seek further academic training. Often such a point arises when impending changes in kind and level of responsibility renders a period of academic broadening useful for the individual concerned. The Mid-Career Option, which normally requires the completion of eighteen units of advanced work, is designed to meet the needs of the well-prepared student who has both a good background of academic preparation and significant professional experience — as represented by at least three years of acceptable administrative or professional work.

In the *Mid-Career Option*, each study plan normally consists of:

- (a) graduate courses (15 units) clustered around the relevant 'core' courses; and
- (b) the *report* requirement (PA 599, 3 units).

Students contemplating entry into the School of Public Administration should confer with the Director of the School as early as possible for guidance in planning a programme of study and for information about course offerings.

*The Division of Continuing Education also provides a diploma course of studies leading to the development of oral and written competence in the French language.

GRADUATE COURSES AND SEMINARS

"CORE" COURSES

ADMN 500. (3) Quantitative Analysis

The aim of the course is to acquaint the student with the uses and limitations of formal analysis in making decisions, and to develop the student's capability to use, understand, and evaluate statistical data and representations. Topics surveyed include: statistical decision theory (Bayesian); the logic and practice of computer simulation of models and the role of the administrator in choosing a model, supplying inputs and in interpreting outputs; sample surveys; optimizing methods and their possible application to problems in the public sector.

ADMN 502. (3) Economic Analysis

The purpose of this course is to assist the student to acquire a greater competency in assessing the economic effects of governmental regulations and policies. The course involves a review of microeconomic and macroeconomic reasoning as applied to public issues, policies, and programmes; cost benefit analysis; urban and regional economics; economic development, monetary and fiscal policy; "incomes" policy and other contemporary topics.

ADMN 504. (3) Political Analysis

The purpose of this course is to assist the student to devise a systematic framework for explaining, predicting, and trying to plan outcomes of action by public authorities. The course involves an examination of the various ways of determining objectives for the

public sector and the development of policies for their achievement including the role of political parties, interest groups, administrators, agencies, the judiciary and legislation in evolving and interpreting the public policy.

The requirements of this course for 1974-75 can be met in whole, or in part, by the completion of POLI 535 or POLI 516.

ADMN 506. (3) Organizational Analysis

The aim of this course is to review topics treated under organization theory from the standpoint of their prospective relevance to institutions in the public sector. The course will examine: the development and use of systems for communicating information about organizational goals, results and status to various decision-making points in an organization; individual motivation in relation to organizational purposes and the means by which these can be brought into agreement; and structures designed to accomplish the stated purposes; the functions and responsibilities of general management and the problems that affect the managerial experience of the organization.

The requirements of this course for 1974-75 can be met in whole, or in part, by the completion of EDUC 533, POLI 550 or SOCI 530.

ADMN 508. (3) Policy Analysis

The purpose of this seminar is to give the student practice in analyzing case material and evaluating the decision-making processes employed therein. Students are involved in small group (Task Force) investigations of contemporary policy issues facing decision-makers in the public sector.

The Report Requirement

ADMN 599. (3) Report

SECOND YEAR SEMINARS AND WORKSHOPS

ADMN 521. (1½) Management of the Public Enterprise

Among the topics examined from time to time in this seminar are: systems planning in the public sector (Planning, Programming and Budget Systems; Management by Objectives), issues in personnel management and labour relations, and financial management such as the evaluation of public investment proposals.

ADMN 522. (1½) Seminar on Public Transportation Issues

ADMN 523. (1½) Seminar on Contemporary Topics in Administration

ADMN 590. (1½-3) Directed Studies

With the approval of the School and of the other Departments or Institutions affected, students may select their remaining courses from offerings available at the University of Victoria or at cooperating institutions.

DIVISION OF CONTINUING EDUCATION

Director: Laurence E. Devlin, B.Ed., M.A., Ph.D.

Programme Officer: Faith B. Collins, B.Sc.N., B.A., M.Ed.

The purpose of the Division is to provide learning opportunities for adults seeking the most current knowledge in a wide variety of subjects. Through the continuing education programme, the academic resources of the University are made directly available to citizens of Greater Victoria and nearby communities.

The non-degree programme of the Division consists of a broad range of courses offering potential intellectual growth and improved business and professional competence. In addition, the Division plans and administers several degree credit courses at off-campus locations and publishes each spring a calendar of evening degree courses offered on campus.

The non-degree programme utilizes a variety of educational formats, such as courses, lecture series, workshops, conferences and symposia. The curriculum is developed in co-operation with Departments from all three Faculties of the University — Arts and Science, Education, and Fine Arts. Instructors are also appointed from the University's professional staff of the McPherson Library, the Computing Centre, Systems Services and the Counselling Centre.

The following partial list of non-degree courses offered in the academic year 1973-1974 illustrates the variety of learning opportunities available to adults through the Division:

LANGUAGES: *French, German, Greek, Italian, Russian and Spanish.*

LIBERAL ARTS: *Libraries: Resource Use and Research, Workshop on Learning Skills, France Since 1900, Great Books in Philosophy, Law for the Layman, A Woman's World Through Poetry, The Art and Craft of Poetry, Accent on Listening: The Music of J. S. Bach, Greenhouse Flower Crops, Microclimatology for Gardeners, Rock and Mineral Identification and Location, Astronomy Today, Men and Politics in England in the 18th and 19th Centuries, Nobel Prize Winners in Literature, Evolution of Man and Culture: Some New Perspectives, Le Théâtre français contemporain.*

MEDIA CYCLE: *University of Victoria Film Society, Mini Cycle I: The Green and Growing Nation, Modes of Film Communication, Introduction to Creative Film Making, Educational Media I, Television Production.*

CREATIVE ARTS: *Developing Effective Speech, Electronic Piano, Creative Writing.*

BUSINESS AND MANAGEMENT: *Business Administration in Canada, Developing Managerial Communications Skills, Fundamentals of Accounting, Financial Accounting, Introduction to Economics, Understanding Investment Securities. Computer courses such as Introduction to Computers, Elementary Programming, Introduction to Applications Programming, Introduction to PL/1.*

PROFESSIONAL DEVELOPMENT: *Basic Social Work Methods, The Health Professional as an Educator, Lecture Series for Nurses.*

FRENCH LANGUAGE DIPLOMA PROGRAMME

In co-operation with the Department of French Language and Literature and the Department of Linguistics, the Division offers a *French Language Diploma Programme*. The programme consists of five integrated courses designed to develop a level of language competence functional throughout Canada. Students are placed at levels consistent with their initial ability, and they progress at their own individual rate. Expected completion time is 2-2½ years. The University awards a Diploma to successful candidates.

Special courses for groups can be arranged on request, if academic resources permit.

For a calendar listing Fall and Spring programmes, Evening Credit Courses or for other information contact

Division of Continuing Education,

University of Victoria,

Telephone 477-6911, locals 802, 803, 804.

SUMMER SESSION

Director: Geoffrey P. Mason, B.A., M.A., Ph.D.

Assistant to the Director: Mrs. Janet Senior.

The announcement of the courses to be offered in the Summer Session (approximately seven weeks in length) will be issued in February and will be available on request from the Director of Summer Session.

The regulations governing the Summer Session are as follows:

1. The maximum credit for Summer Session work in any one calendar year is 6 units. However, students are urged to register in not more than 4½ units. Correspondence courses may not be taken concurrently.
2. Students are required to register by the due date published in the Summer Session Supplement to this Calendar. A late registration fee of \$20.00 will be charged to any student who completes registration procedures after the appointed time.
3. Students who obtained unsatisfactory standing in the last Winter Session attended may not enrol in Summer Session without the approval of the Committee on Admission and Re-registration.
4. All new students desiring to obtain credit for courses completed in the Summer Session must submit with their Application for Admission official transcripts of their matriculation standing and any university work completed elsewhere. In the case of teachers, official transcripts of their professional training are also required.
5. Students are expected to attend regularly the classes in a course for which they register. A student who neglects his academic work, including assignments, may be debarred from final examinations in a course.
6. For statement of fees, see page 31.
7. Summer Session examinations are held at the close of Summer Session.
8. For regulations regarding standing and credit, see page 27.

INDIVIDUALLY SUPERVISED STUDIES IN SUMMER SESSION 1974

In May 1972, the Senate adopted a policy that provides for students to undertake individual studies at the University during Summer Session. These studies may consist of Directed Studies courses (normally numbered 490) or regular courses taken as individually supervised studies courses. The courses may be undertaken, subject to the following conditions:

1. The student must be a superior student.
2. Approval in writing must be given by each of the following, in the order indicated:
 - (a) The supervising faculty member (or members).
 - (b) The Department Head or Chairman.
 - (c) The Dean of the Faculty, who requires a course outline for Directed Studies courses.
 - (d) The Director of Summer Session.
3. Written approvals as indicated above (except for 2(d)) and completed registration materials must be received by the Summer Session Office by May 1.

Procedures

The student is required to arrange for a course as follows:

1. Consult with the instructor for his written approval and if the course is a Directed Studies course, obtain an outline of the course.
2. Obtain the approval in writing of each of the other officials designated above.
3. Present his completed registration materials to the Summer Session Office by the date indicated.

N.B. It is the student's responsibility to make all the necessary arrangements personally. The University will not enter into correspondence in regard to arrangements for individually supervised courses in Summer Session.

Completion of the Course

The time allowed for completion of a course equates that for regular Summer Session courses, i.e. approximately 7 weeks. Individually supervised studies must be completed by August 16, 1974. Under no circumstances will courses be allowed to extend past that date. Such studies are subject to those University regulations that govern Summer Session courses in respect to course load, grading and credit, and other regulations that apply.

Fee Regulations

Individually supervised studies courses are subject to all fee regulations governing studies in Summer Session.

INDIVIDUALLY SUPERVISED STUDIES IN MAY AND JUNE 1975

In May 1972, the Senate adopted a policy that provides for undergraduate students to undertake individual studies at the University during May and June. These studies may consist of Directed Studies courses (normally numbered 490) or regular courses taken as individually supervised studies courses. The courses may be undertaken, subject to the following conditions:

1. The student must be a superior student.
2. The maximum number of units that can be undertaken is 3.
3. Approval in writing must be given by each of the following, in the order indicated:
 - (a) The supervising faculty member (or members).
 - (b) The Department Head or Chairman.
 - (c) The Dean of the Faculty, who requires a course outline for Directed Studies courses.
 - (d) The Director of Summer Session.
4. An application form together with the written approvals as indicated above (except for 3(d)) must be received by the Summer Session Office by March 1, 1975.
5. Registration must be completed by April 1, 1975.
6. Summer Session regulations governing the amount of late fees will apply for courses in May and June in cases where the above deadlines are not met (see below).

Procedures

The student is required to arrange for a course as follows:

1. Complete registration materials.
2. Consult with the instructor for his written approval and if the course is a Directed Studies course, obtain an outline of the course.
3. Obtain the approval in writing of each of the other officials designated above (except for 3(d)).
4. Present his completed registration materials to the Summer Session Office by the date indicated.

N.B. It is the student's responsibility to make all the necessary arrangements personally. The University will not enter into correspondence in regard to arrangements for individually supervised studies in May and June.

Completion of the Course

The time allowed for completion of a course equates that for regular Summer Session courses, i.e. approximately 7 weeks. Courses in May and June must be completed by June 18, 1975. Under no circumstances will courses be allowed to extend past that date. Studies in May and June are subject to those University regulations that govern Summer Session courses in respect to grading and credit, and other regulations that apply.

Fee Regulations

A late registration fee will be charged when permission to register late, that is, after April 1, is granted.

Tuition fees of \$50 per 1½ unit course and \$100 per 3 unit course, and a Student Union fee of \$2, together with the late fee where required, are due and payable in full at the time of registration.

Students who withdraw from a course should notify the Director of Summer Session *immediately in writing*. Otherwise full fees will be assessed and applications for re-registration may not be accepted until accounts are settled in full.

Students who withdraw from courses in May and June will receive a refund of tuition fees paid, less the following charges: on or before May 2 — \$10. From May 5 to May 9 inclusive — 20% of fees. No refunds of tuition fees will be made after May 9. Students who withdraw from the University on or before May 9 will receive a refund of the Student Union fee.

NURSING

The Board of Governors and the Senate of the University authorized the establishment of a School of Nursing beginning in September 1967. Subsequently, however, the establishment of the School was postponed. In the Fall of 1973 the question of establishing a School of Nursing was reconsidered by the Senate which approved a programme leading to the Bachelor of Science in Nursing degree for practising nurses possessing a Diploma in Nursing issued by a recognized authority. Further action is awaiting the availability of funding.

SOCIAL WELFARE

The Board of Governors and the Senate of the University authorized the establishment of a School of Social Welfare beginning in September 1969. Subsequently, however, the establishment of the School was postponed. In the Fall of 1973 the question of establishing a School of Social Welfare was reconsidered by the Senate which approved a programme leading to the Bachelor of Social Welfare degree. Further action is awaiting the availability of funding.

OFF-CAMPUS COURSES

University of Victoria offers credit courses during the Winter Session at certain centres on Vancouver Island for the benefit of persons who are unable to attend courses at the University and who wish to undertake studies on a part-time basis. The term is the same as that for students on campus and classes are conducted for the same number of hours per week. The University reserves the right to change the starting times or cancel courses when enrolment is not sufficient.

CALENDAR REGULATIONS

Students taking courses off campus are subject to all the academic rules and regulations that apply to students at the University. The courses offered are the same as those offered to students proceeding to a degree on campus. Selection of courses must be made in keeping with Calendar prescriptions for the degree programme involved. Students seeking academic advice regarding degree programmes should consult the appropriate academic advising centre. Enquiries should be directed to one of the following:

Advising Centre — Faculty of Arts and Science — R.323 MacLaurin Building.

Advising Centre — Faculty of Education — R.250 MacLaurin Building.

The Dean's Office — Faculty of Fine Arts — R.192 MacLaurin Building.

CREDIT FOR HIGHER TEACHER CERTIFICATION

Applicants who hold teaching certificates should not assume that they possess the requirements for admission to the University. Applicants admitted to a degree programme at the University may improve their teacher certification by completion of appropriate courses as specified in the Calendar of the University. Teachers who do not wish to work towards a degree but toward higher teacher certification, or who are not admissible to a degree programme, must direct all enquiries concerning teacher certification to the British Columbia Department of Education, Victoria, which is solely responsible for teacher certification in this Province.

SESSION

Monday, September 9, 1974, to Friday, April 25, 1975.

AUDITING

Applicants who wish to audit a course may do so but are subject to full fees. Auditors are in the lowest priority in courses which have enrolment limits and are not entitled to credit if admitted to a course.

APPLICATION

Students who were registered in credit courses prior to September 1974 should apply for re-registration on or before June 30 using the required APPLICATION FOR RE-REGISTRATION form which is obtainable from the Registrar's Office.

Persons seeking admission to the University for the first time must obtain an APPLICATION FOR ADMISSION form from the Director of Admissions. This form, fully completed and accompanied by all official transcripts of academic records, should be submitted to the Director of Admissions on or before July 31.

Those students who apply by the appropriate due date, mentioned above, will be given priority over those who apply after the above dates. No student will be permitted to register for credit unless he has completed application and registration procedures and is in attendance before the end of the second week of classes.

REGISTRATION PROCEDURES

Applicants whose registration is authorized by September 1 will receive registration booklets and will have the option of registering by mail or in class. Those who wish to register by mail must mail their registration booklets, together with a cheque to cover fees, in time to arrive in the Registrar's Office by September 6. Those who wish to register in class, including those who have not had their registration authorized by September 1, must complete the necessary forms and submit them, together with a cheque to cover fees, before the end of the second week of lectures. Registration after the second week of lectures will be permitted only in exceptional cases and with the permission of the instructor, upon payment of the late registration fee of \$20.

Students will be allotted places in courses on a first-come, first-served basis and are therefore urged to complete application and registration procedures in time to register by mail by September 7.

Registration for all courses to be taken during the Winter Session, including courses beginning in January, must be completed at the time of registration in September.

FEES (INCLUDING AUDITORS)

Regulations regarding payment of fees are contained on page 31 of the Calendar and are the same as those for other students in the Winter Session, with the exception that the full first fee instalment must be paid at the time of registration by students enrolled in off-campus courses. The following is a brief summary of calendar fee regulations which apply to off-campus courses:

Tuition fees, \$30 per unit.

Other fees when applicable are:

Graduation Class fee	\$10.00
Late Registration fee	\$20.00
Late Payment Fee	10% of unpaid balance; minimum \$5.00, maximum \$20.00

Payment of Fees:

- a. For courses that finish in the first term — full fees must be paid at the time of registration.
- b. For courses that do not finish in the first term — fees may be paid in full at the time of registration or in two instalments:
 - (i) First fee instalment — one half of sessional tuition fees plus (if applicable) graduation class fee and late registration fee — payable at the time of registration.
 - (ii) Second fee instalment — one-half of sessional tuition fees — may be paid at time of registration or at any time during the first term. Second fee instalments not received in full by January 17, 1975 are subject to a late payment fee, additional to all other fees.

WITHDRAWAL

Students who withdraw from a course should notify the Registrar immediately in writing. Otherwise, full sessional fees will be assessed and applications for re-registration may not be accepted until accounts are settled in full. Refunds will be made in accordance with regulations given on page 35 of the Calendar.

LIST OF COURSES

A list of courses to be offered may be obtained from the Division of Continuing Education, local centres of adult education where University courses are offered, and from the Registrar's Office.

AFFILIATE

VICTORIA CONSERVATORY OF MUSIC

On June 18, 1968, the Victoria Conservatory of Music became affiliated with the University of Victoria. The Conservatory began in 1964 as the Victoria School of Music.

Students in the Bachelor of Music programme and in the music teaching area in the Bachelor of Education programme receive their solo performance tuition from the faculty of the Conservatory.

A list of the Conservatory faculty is shown under the Department of Music. See page 293.

PRE-PROFESSIONAL EDUCATION

The material which follows is only a *guide* to professional education at other universities, and students must not assume that completion of these courses will grant them automatic admission. Students who are seeking advice about professional education should consult the Arts and Science Advising Centre, University of Victoria.

Please note that course programmes for First Year students only are outlined, although it may be possible to complete one or more additional years of study at the University of Victoria.

Students who plan to undertake professional studies at other Canadian or American universities are urged to correspond with the universities of their choice during their first year at the University of Victoria.

AGRICULTURE

Suggested courses:

Biology
Chemistry
English
Mathematics
An Arts elective

APPLIED SCIENCE

Suggested courses:

English
Mathematics
Chemistry
Physics
Non-Science elective

ARCHITECTURE

Suggested courses:

English
Mathematics
History in Art
Electives

COMMERCE AND BUSINESS ADMINISTRATION

Students interested in Commerce and Business Administration are advised to consult the Head of the Department of Economics, University of Victoria.

Suggested course: First Year Arts and Science or its equivalent with standing in 15 units (including English and Mathematics).

DENTAL HYGIENE

Suggested courses:

English
Chemistry
Biology
Psychology
An elective

HOME ECONOMICS

Suggested courses:

English
Chemistry
Physics
Mathematics
Biology or a Social Science

DENTISTRY

Completion of at least three years of study in Arts and Science including English, Mathematics, Chemistry, Biology, Physics.

FORESTRY

Suggested courses:

Biology or Physics
Chemistry
English
Mathematics
One additional course

PHARMACY

Suggested courses:

Chemistry
English
Mathematics
Physics or Biology
A Non-Science elective

MEDICINE

Completion of at least three years of study in Arts and Science including English, Mathematics, Chemistry, Biology, Physics

REHABILITATION MEDICINE

Suggested courses:

English
Mathematics
Chemistry
Biology
Non-science elective or Physics

PSYCHOLOGY

Students wishing to enter a professional school of psychology are advised to complete the B.A. Honours or B.Sc. Honours programme in the Department of Psychology, University of Victoria.

SOCIAL WORK

Students interested in professional social work are advised to complete a degree in the Faculty of Arts and Science.

LABORATORY TECHNICIAN

Suggested courses:

English
Mathematics
Biology
Chemistry
An elective

VETERINARY MEDICINE

Completion of two years of study in Arts and Science including:

English
Physics
Biology and Zoology, including Genetics
Chemistry, including Organic Chemistry
Mathematics
Electives

AWARDS AND FINANCIAL AID

GENERAL REGULATIONS

All inquiries concerning material in this section except University of Victoria graduate fellowships and scholarships should be directed to the Financial Aid Officer, Registrar's Office. Information regarding University of Victoria Graduate awards may be obtained from the Faculty of Graduate Studies, Building "L".

All awards adjudicated by the University of Victoria are administered by the Senate Committee on Awards.

To be eligible for a scholarship offered by the University, a student must take a full year's programme (this shall be at least fifteen units) which must include the required courses for the year in which the student is registered. Where credit has already been obtained in a required course, however, another may be substituted with the permission of the Dean of the Faculty concerned except that grades of compulsory courses must be included in the required number of units for the year and degree in which the student is registered.

A student who has a failure in one of the required courses for the year will not be eligible for an award based on academic merit. Except where terms and conditions of an award specifically state otherwise, award winners must return to the University of Victoria in the next regular session and must enrol in a full programme.

For general proficiency awards, the standing of students who are registered in more than 15 units of courses will be determined on the basis of the grades of the best 15 units of courses, except that grades of compulsory courses will be included in computing the overall standing.

The University reserves the right to limit the amount of money retained by a student and, if necessary, to reassign awards to other students by reversion. In cases of reassignment by reversion, the names of the original recipients will be included in the published list of awards.

Where applications are necessary, the deadline for submission of application forms is April 30, unless otherwise stated.

Awards may be withheld or cancelled for any of the following reasons: lack of suitable candidates; failure to meet terms and conditions of award; withdrawal from the University; unsatisfactory conduct, attendance or progress; withdrawal of the award by the donor.

Except where the donor directs otherwise, the proceeds of scholarships and bursaries issued by or through the University will be applied against the total fees for the academic year. If the amount of the award or awards exceeds the unpaid total fees for the academic year, the excess balance will be paid to the student.

If for any reason the original recipient becomes ineligible to hold an award, the funds will be reassigned, by reversion, to other students. In such cases, the published list of award winners will show only the names of the original recipients.

Other awards, such as medals or book prizes, if not presented directly by donors or their agents, will be forwarded to the winners upon receipt.

DEFINITIONS

- (a) An award is any scholarship, fellowship, bursary, medal or prize.
- (b) A scholarship or fellowship is a monetary award based on academic merit or excellence in the area to which the award pertains.
- (c) A bursary is a monetary award based on need and reasonable academic standing.
- (d) A medal is an award based on academic merit or excellence in the area to which the award pertains.
- (e) A prize is an award in the form of cash or of some tangible object such as a book, based on academic merit or excellence in the area to which the award pertains.

NOTE: None of the above awards requires that the student discharge any duties for the University or any other agency. This applies to awards administered by the University of Victoria only.

LIST OF AWARDS

The sections of the Calendar which follow show awards grouped under certain headings:

Section 1: Entrance awards. See page 361.

Section 2: Government of British Columbia awards. See page 378.

Section 3: University bursaries requiring application. See page 382.

Section 4: Undergraduate awards for which no application is necessary: selection of recipients is made by the Senate Committee on Awards. See page 383.

Section 5: Undergraduate awards for which application must be made to the Senate Committee on Awards. See page 393.

Section 6: Undergraduate awards administered by the University of British Columbia and other institutions and organizations. See page 397.

Section 7: Awards for graduate study. See page 405.

Section 8: Loan funds. See page 408.

SECTION 1

ENTRANCE AWARDS

The following scholarships are open to students who have completed University Entrance and are proceeding to the University of Victoria

ENTRANCE AWARDS ADMINISTERED BY THE UNIVERSITY OF VICTORIA

Application forms for the following awards may be obtained from the Financial Aid Officer, Registrar's Office, University of Victoria, Victoria, B.C., and must be returned before June 30. Names of winners will be released early in September.

PRESIDENT'S ENTRANCE SCHOLARSHIPS — Five scholarships of \$500 each for British Columbia secondary school graduates who are entering the University of Victoria in September 1974. Awards will be based upon high standing in the matriculation record of students. Recipients will be selected by the Committee on Awards and awards will be announced shortly after the release of the examination results in the summer. If funds permit, additional awards in smaller amounts may be allocated.

CANADIAN UNION OF PUBLIC EMPLOYEES SCHOLARSHIPS — The C.U.P.E. will provide annual scholarships of \$200 each to five promising and deserving students who will register in the First Year at the University of Victoria. Students must have obtained first class standing or a good second class in the Departmental Examinations in the Grade 12 Academic-Technical Programme. All other things being equal, preference will be given to sons or daughters of members of the Canadian Union of Public Employees. Recipients will be selected by the Committee on Awards in consultation with officials of the Union.

ALDYEN HAMBER I.O.D.E. ENTRANCE SCHOLARSHIP — Two hundred and fifty dollars (\$250) awarded annually to a deserving woman student entering the first year at the University of Victoria. Applicants must write the British Columbia Scholarship examinations. Selection of the recipient will be made by the Senate Committee on Awards after consultation with the donor.

THE HARBORD INSURANCE LTD. SCHOLARSHIP — Five hundred dollars (\$500) awarded annually to the most promising scholar leaving School District No. 61, entering the Faculty of Fine Arts at the University of Victoria and intending to specialize in Music. Selection of the winner will be made by the Committee on Awards after consultation with the appropriate officials of School District No. 61 and the Department of Music.

LABATT BREWERIES OF BRITISH COLUMBIA LIMITED SCHOLARSHIP — A scholarship of five hundred dollars (\$500) is provided by Labatt Breweries of British Columbia Limited to be available for students who are resident in British Columbia and who are proceeding directly from Grade 12 to a full course of study at the University of Victoria. The winner will be selected by the Senate Committee on Awards on the basis of scholastic standing, character and participation in school and community affairs. Candidates must be eligible in all respects to compete for Government scholarships and must write the Government scholarship examinations, conducted by the Department of Education.

***SARA AND JEAN MACDONALD BURSARY FUND** — Provides annual bursaries for worthy and deserving women students entering the University of Victoria from secondary schools. Selection is to be made by the Committee on Awards on the basis of financial need and recommendations from secondary schools. At present, the fund provides four bursaries valued at \$300 each.

* Administered by the University of Victoria Foundation.

PACIFIC COAST FISHERMEN'S MUTUAL MARINE INSURANCE COMPANY BURSARY — A bursary of \$450 is offered by Pacific Coast Fishermen's Mutual Marine Insurance Company to sons, daughters and legal wards of past and present members of this insurance company. It is open to students entering University from Grade XII. Applicants must apply on the University Scholarship Form. The application must be accompanied by a letter describing the family fishing history in general terms and detailing types of fishing and boat names. Selection will be made by the Committee on Awards in consultation with officials of the Company.

THE READ JONES CHRISTOFFERSEN LTD., CONSULTING ENGINEERS SCHOLARSHIP — Two hundred dollars (\$200) awarded annually to a student entering the University of Victoria to study pre-engineering. Selection will be made by the Committee on Awards in consultation with the donor.

SEASPAN INTERNATIONAL LTD. SCHOLARSHIP — One hundred and fifty dollars (\$150) will be awarded to a deserving and qualified member of the Indian community of Vancouver Island, any of the Gulf Islands, the West Coast of the Mainland, or the Queen Charlotte Islands, who gained academic success in University Entrance examinations and enters First Year at the University of Victoria. Selection of the winner will be made by the Committee on Awards after consultation with the District Superintendent of Indian Schools.

THE VANCOUVER ISLAND REAL ESTATE BOARD BURSARY — A bursary of five hundred dollars (\$500) is provided by the Vancouver Island Real Estate Board to a student holding Canadian citizenship, going directly from grade 12 to the University of Victoria. Candidates must be graduates from senior secondary schools in the Board area which comprises school districts 65, 66, 68, 70, 71, 72, 84 and 85. The winner will be selected by the Senate Committee on Awards on the basis of financial need and recommendations from the school. Candidates are urged to write the Government Scholarship Examinations, but this regulation is not mandatory in order to be considered for the award.

UNIVERSITY OF VICTORIA ALUMNI AWARD — Contributions to the Alumni Annual Giving Campaign and other funds have made possible the institution of a \$500 annual Award by the Alumni Association of the University of Victoria. The Award is open to students entering either first or second year at the University who intend to complete an undergraduate degree at the University. There is no age limit for applicants and the competition is open to students who propose to carry a minimum of 6 units of credit during their first year at the University. However, preference will be given to candidates undertaking a full-time programme of studies. The Award may be renewed for a total of two years, providing that the candidate continues to meet Award criteria.

The Selection will be based on the following criteria, assessed by the Alumni Award Committee:

- a) academic achievement or the potential for academic achievement
- b) financial need
- c) potential for intellectual and social contribution to University life.

In assessing the above criteria, the Award Committee will be guided by the assumption that the University of Victoria has a special contribution to make to the personal and intellectual development of its students, and, therefore, that the qualities desired of successful candidates must be evaluated in the expectation of probable development while at the University. The Committee will be concerned with candidates who in the absence of assistance, would not otherwise attend the University of Victoria.

ENTRANCE AWARDS, ADMINISTERED BY THE SCHOLARSHIP AND BURSARY COMMITTEE, ROOM 207, BUCHANAN BUILDING, UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER 8, B.C.

(1) Scholarships which must be applied for by May 15.

BRITISH COLUMBIA FOREST PRODUCTS LIMITED ENTRANCE SCHOLARSHIPS — Ten scholarships of four hundred dollars (\$400) each are offered by British Columbia Forest Products Limited to sons and daughters of employees who, by June 30 of the year in which the award is made, have or will have served the Company for at least one year. They are open to students proceeding in the fall from Grade XII to a full course of studies at the University of British Columbia or the University of Victoria. Candidates for these scholarships must write the required scholarship examinations conducted in June by the Department of Education, B.C. The scholarships will be awarded to the ten candidates obtaining highest standing. No award will normally be made, however, to an applicant with an overall average of less than 70%. The grades obtained in other subjects taken during the year may also be considered. Applicants for these scholarships must complete the "General Application for Scholarship" form, which may be obtained from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of B.C., Vancouver 8, B.C. These applications must be received by the University of British Columbia not later than May 15 and must contain the necessary details of family service with the Company. Before June 1 they must also complete and submit through the school principal, the special form required by the Department of Education from all those writing the scholarship examinations. Postponement of attendance at the University of B.C., Simon Fraser University or the University of Victoria may be granted to a scholarship winner, but only for certified medical reasons and then only for a period of one year. Application for postponement must be made through the University of B.C. at the time the award is made.

THE FEDERATION OF TELEPHONE WORKERS OF BRITISH COLUMBIA, PLANT DIVISION, SCHOLARSHIP — The Federation of Telephone Workers of British Columbia, Plant Division, offers two scholarships of five hundred dollars each (\$500) to sons and daughters of members (with at least twelve months continuous service) or of deceased members (with the same service). They are open in competition to students proceeding in the fall from Grade XII in high school to a full programme of studies at the University of British Columbia, Simon Fraser University, the University of Victoria, Notre Dame University or any other accredited regional college in B.C. To be eligible for consideration a candidate must have an overall average of at least 70% in the subjects of the grade in which he or she is registered. Candidates in Grade XII will be considered on the basis either of standing received by recommendation or in the June Departmental Examinations. The winners will be selected by the University of British Columbia, in consultation with the Federation, from those who so qualify. In the final selection, a major factor will be the financial circumstances of applicants and their families. All candidates must apply to the University of British Columbia not later than May 15 by completing the "General Application for Scholarship" form. This form may be obtained from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. Applications should contain details of family service with the Federation and other pertinent information. The applicant must forward his official high school transcript (or an exact copy) to the University of B.C. as soon as it is received.

THE FEDERATION OF TELEPHONE WORKERS OF BRITISH COLUMBIA, TRAFFIC DIVISION, SCHOLARSHIP — The Federation of Telephone Workers of British Columbia, Traffic Division, offers a scholarship of five hundred dollars (\$500) to sons and daughters of members (with the same service). It is open in competition to students proceeding in the fall from Grade XII in high school to a full programme of studies at the University of British Columbia, Simon Fraser University, or the University of Victoria. To be eligible for consideration a candidate must have an overall average of at least 70% in the subjects of the grade in which he or she is registered. Candidates in Grade XII will be considered on the basis either of standing received by recommendation or in the June Departmental Examinations. The winner will be selected by the University of British Columbia, in

consultation with the Federation, from those who so qualify. In the final selection, a major factor will be the financial circumstances of applicants and their families. All candidates must apply to the University of British Columbia not later than May 15 by completing the "General Application for Scholarship" form. This form may be obtained from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. Applications should contain details of family service with the Federation and other pertinent information. The applicant must forward his official high school transcript (or an exact copy) to the University of British Columbia as soon as it is received.

THE INTERNATIONAL LONGSHOREMEN'S AND WAREHOUSEMEN'S UNION ENTRANCE SCHOLARSHIPS — Four scholarships of \$400 each are offered to members, and sons and daughters of members, in good standing, of the International Longshoremen's and Warehousemen's Union. They will normally be awarded to the candidates who obtain the highest standing in Grade XII written examinations conducted in June by the Department of Education, Victoria, B.C., and who are proceeding in the fall to a full programme of studies at Simon Fraser University, University of British Columbia, Notre Dame University, the University of Victoria, or any accredited Regional College in B.C. Students who wish to compete for these must apply on the "General Application for Scholarship" form, which may be obtained from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. The completed application must be received at the University of British Columbia by May 15. The donors reserve the right to withhold awards if the academic standing of candidates is not sufficiently high or to reaward scholarships if winners receive other scholarships of substantial value.

OCEAN CONSTRUCTION SUPPLIES LIMITED ENTRANCE SCHOLARSHIPS — Ocean Construction Supplies Limited annually offers scholarships to a total of \$1,000, open in competition to employees' sons and daughters who are proceeding in the fall from Grade XII to a full course of University studies. Three scholarships of approximately equal value are provided for attendance at the University of British Columbia, the University of Victoria, Simon Fraser University, the British Columbia Institute of Technology, or, as may be recommended. Candidates for these scholarships must (a) write the Government of British Columbia scholarship examinations conducted in June by the Department of Education, B.C., and (b) complete the General Application for Scholarship form, which may be obtained from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. The completed application must be returned to University of British Columbia not later than May 31. These scholarships will be awarded to the applicants who, in the opinion of the Selection Committee are best qualified in terms of academic merit combined with interest and participation in school or community affairs.

STANDARD OIL COMPANY OF BRITISH COLUMBIA LIMITED ENTRANCE SCHOLARSHIPS — Standard Oil Company of British Columbia Limited offers four scholarships of \$500 each to students who are residents of British Columbia and are proceeding in the fall to studies in the First Year at the University of British Columbia, the University of Victoria, Simon Fraser University, a Regional College in British Columbia, or approved Canadian University of recognized standing, in a full programme of courses leading to a degree. Candidates must be eligible in all respects to compete for Government of B.C. Scholarships and must write the Government of B.C. Scholarship Examinations for High School Graduation (Academic-Technical) conducted in June by the Department of Education, B.C. These scholarships will normally be awarded to applicants with outstanding averages in these examinations. Grades obtained in other subjects taken during the year may be considered. Selection of winners will also be based on the financial circumstances of applicants and their immediate families, the types and amounts of other awards received, and similar factors. No award will be made to a candidate with an overall average less than 75%. Postponement of an award is permitted only for certified medical reasons. All candidates must apply on the General Application for Scholarship Form, which may be obtained from the Scholarship and Bursary Office, University of British Columbia, Vancouver 8, B.C. The application must be filed by May 15.

STANDARD OIL COMPANY OF BRITISH COLUMBIA LIMITED SPECIAL SCHOLARSHIP—Standard Oil Company of British Columbia Limited offers a scholarship worth \$2,000 to children or wards of employees or annuitants of the Standard Oil Company of British Columbia, or of deceased employees who die while in the employ of the Company or as annuitants of the Company, and who have or had not less than one year of service with the Company. It will be open in competition to students proceeding in the fall to the First Year at Simon Fraser University, University of British Columbia, the University of Victoria, a Regional College in British Columbia or other approved Canadian university of recognized standing, in a full course leading to a degree. Candidates must write the required scholastic examinations for High School Graduation on the Academic-Technical Programme conducted in June by the Department of Education, Victoria, B.C. The scholarship will normally be awarded to the eligible applicant obtaining highest standing in these examinations, but standing obtained in other subjects taken during the year may also be considered. Should this applicant win another award, however, the scholarship may be given, at the discretion of the University of British Columbia, to the eligible candidate with next highest standing. No award will be made to a candidate with an overall average of less than 70%. General regulations of the University of British Columbia are also applicable to this scholarship. The winner of this award will receive \$500 during the first year of attendance at the University, and is eligible for renewals of \$500 a year for three further years. Each renewal is subject to maintenance of standing satisfactory to the University of British Columbia. The student must apply by June 1 on the "General Application for Scholarship" form obtainable from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. He must give essential details of family employment with the Company.

THE VANCOUVER SUN SCHOLARSHIPS FOR SUN CARRIERS—The Vancouver Sun offers annually two scholarships of \$500 each to students proceeding in the fall from Grade XII to the First Year at Simon Fraser University, University of British Columbia, the University of Victoria, or Notre Dame University of Nelson, in a full programme leading to a degree in any field. To be eligible applicants must have been carriers of the Vancouver Sun for at least two consecutive years. The scholarships will normally be awarded to the two applicants who rank highest on the basis of the marks obtained in the written examinations for High School Graduation on the Academic-Technical Programme conducted in June by the Department of Education, B.C., but standing obtained in other subjects taken during the year may also be considered. Applicants must write the required examinations in the scholarship subjects prescribed by regulations of the Department and the University. An applicant will only be considered if he obtains an overall average of at least 75% in the Government Scholarship Examinations. Winners who obtain and maintain First Class standing (or who, in successive years of their undergraduate course, rank in the top 10% of the Faculty and Year in which they are registered) will be eligible for renewals of \$500 a year until graduation, not exceeding a total of five payments in all. Selection of the winners will be made by the University of British Columbia. A student who wishes to be considered for one of these scholarships must apply by May 15 on the "General Application for Scholarship" form obtainable from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. The application must be accompanied by the service certificate of the Vancouver Sun. The winner of one of these scholarships, while not also permitted to hold the Vancouver Sun Special Scholarship for Carriers may, however, accept other awards offered to him.

THE VANCOUVER SUN SPECIAL SCHOLARSHIP FOR SUN CARRIERS—The Vancouver Sun offers annually a scholarship of \$500 to students proceeding in the fall from Grade XII to the First Year at the University of British Columbia, the University of Victoria, Simon Fraser University, or Notre Dame University of Nelson in a full programme leading to a degree in any field. To be eligible an applicant must have been a carrier for the Vancouver Sun for at least two consecutive years, and must take the written examinations for High School Graduation on the Academic-Technical Programme, conducted in June by the Department of Education, B.C. All applicants must write the required examinations in the scholarship subjects prescribed by the regulations of the Department and the University. An applicant will be considered only if he obtains an overall average of at least 75% in the Government Scholarship Examinations. The scholarship will be awarded to the

eligible applicant who, in the opinion of the University of British Columbia, is the most outstanding in combining high scholastic attainment with achievement in one or more areas such as service to the school and community, writing, drama, fine arts; debating and public speaking; sports. A winner who, in successive years of his undergraduate course, obtains and maintains First Class standing (or ranks in the top 10% of the Year and Faculty in which he is registered) will be eligible for renewals of \$500 a year until graduation, not exceeding a total of five payments in all. All candidates must complete the "General Application for Scholarship" form, obtainable from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. The completed application, accompanied by the service certificate of the Vancouver Sun must be received by the University of British Columbia not later than May 15. Candidates will be judged on the basis of their examination grades, their personal letters (see application form for details), and letters of recommendation from their references. The winner of this scholarship, while not also permitted to hold one of the Vancouver Sun Scholarships for Carriers, may accept other awards offered to him.

THE VANCOUVER SUN REGIONAL COLLEGE ENTRANCE SCHOLARSHIPS FOR SUN CARRIERS — The Vancouver Sun offers annually three scholarships of \$250 each to students proceeding in the fall from Grade XII to the first year at a public regional college in B.C., in a full programme of studies (comprising two consecutive semesters or the equivalent) in courses leading to a University degree. To be eligible an applicant must have been a carrier of The Vancouver Sun for at least two consecutive years and must write the Scholarship Examinations conducted in June by the Department of Education, B.C. An applicant will only be considered if he obtains an overall average of at least 75% in the Government Scholarship Examinations. The scholarships will normally be awarded to the three qualified applicants who rank highest in these examinations, but standing obtained in other subjects taken during the year may be considered, and always in case of a tie. A winner who ranks in the top 10% of the students in the College he has attended and who proceeds to the second year of the College in a full programme of studies leading to a University degree will be granted a renewal in the same amount. A winner who, after completion of one or two years of College, transfers to a full course of studies at a public University in B.C., and who ranks in the top 10%, at the time of transfer, among the students of his Year in the College, will qualify for a further scholarship of \$500. For continued attendance at this University he may then be eligible for up to two further renewals until he obtains his first undergraduate degree. Renewal each year is conditional upon his ranking in the top 10% of students in the Year and Faculty in which he is registered. A candidate for these awards must apply on the "General Application Form", which may be obtained from, and must be returned by May 15th to, the Scholarship Office, Room 207, Buchanan Building, University of B.C., Vancouver 8, B.C. The application must be accompanied by the service certificate of The Vancouver Sun.

THE VICTORIA GENERAL UNIT, LOCAL 180, SCHOLARSHIP — A scholarship of \$250 is offered by the Victoria General Unit of the Hospital Employees' Union Local 180 to students proceeding in the fall from Grade XII of secondary school to a full programme of studies at the University of B.C., University of Victoria, Notre Dame University of Nelson, Vancouver City College, or Simon Fraser University in any field leading to a degree. To be eligible an applicant must (a) be the son or daughter of an active member of the Hospital Employees' Union Local 180 ("active" being interpreted as on the staff of a hospital within the jurisdiction of Local 180, or on the staffs as of January 1st of the year of the award but since super-annuated); (b) write the Government Examinations conducted in June by the Department of Education, B.C. and obtain clear standing with an overall average of not less than 70%; (c) obtain from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia Bursary Application Form after June 1, and file the completed form with the University of B.C. not later than July 15th. The information given in the form must clearly establish the applicant's family connection with Local 180 and one of the hospitals. Candidates should note that intention to write Government Scholarship Examinations must be filed with the Department of Education, Victoria, B.C., through the school principal, before June 1st. The scholarship will be awarded to the candidate who, in the opinion of the University (in consultation with the Union), is best qualified in terms of academic standing and financial need.

VANCOUVER GENERAL UNIT, LOCAL 180, SCHOLARSHIPS — Two scholarships of \$350 each are offered annually by the Vancouver General Unit of the Hospital Employees' Union Local 180 to students proceeding in the fall from Grade XII of secondary school to a full programme of studies at the University of B.C., Simon Fraser University, Notre Dame University of Nelson, Vancouver City College, or University of Victoria in any field leading to a degree. To be eligible an applicant must (a) be the son or daughter of an active member of the Hospital Employees' Union Local 180 ("active" being interpreted as on the staff of a hospital within the jurisdiction of Local 180, or on the staff as of January 1st of the year of the award but since superannuated); (b) write the Government Scholarship Examinations conducted in June by the Department of Education, B.C. and obtain clear standing with an overall average of not less than 70%; (c) obtain from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of B.C. Bursary Application Form after June 1st, and file the completed form with the University of B.C. not later than July 5th. The information given in the form must clearly establish the applicant's family connection with Local 180 and with one of the hospitals. Candidates should note that intention to write Government Scholarship Examinations must be filed with the Department of Education, Victoria, B.C., through the school principal, before June 1st. The scholarships will be awarded to the two candidates who, in the opinion of the University of B.C. (in consultation with the Union), are best qualified in terms of academic standing and financial need.

THE HOSPITAL EMPLOYEES' UNION LOCAL 180 SCHOLARSHIPS — Two scholarships of \$250 each are offered annually by the Hospital Employees' Union Local 180 to students who are proceeding in the fall from Grade XII of secondary school to a full programme of studies at the University of B.C., Simon Fraser University, Notre Dame University of Nelson, Vancouver City College, or University of Victoria in any field leading to a degree. To be eligible an applicant must (a) be the son or daughter of an active member of the Union, ("active" being interpreted as on the staff of a hospital within the jurisdiction of Local 180, or on the staff, as of January 1st of the year of award but since superannuated); (b) write the Government Scholarship Examinations conducted in June by the Department of Education, B.C. and obtain clear standing with an overall average of not less than 70%; (c) obtain from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of B.C. Bursary Application Form after June 1st, and file the completed form with the University of B.C. not later than July 15th. The information given in the form must clearly establish the applicant's family connection with Local 180 and with one of the hospitals. Candidates should note that intention to write Government Scholarships Examinations must be filed with the Department of Education, Victoria, B.C., through the school principal, before June 1st. The scholarships will be awarded to the two candidates who, in the opinion of the University of B.C. (in consultation with the Union), are best qualified in terms of academic standing and financial need.

THE RETAIL CLERKS UNION, LOCAL 1518, SCHOLARSHIPS — The Retail Clerks Union, Local 1518, offers two scholarships of \$350 each to students beginning or continuing studies in a full academic programme of studies at the University of B.C., University of Victoria, or Simon Fraser University. The awards will be made to the applicants with the highest standing in the final examinations. Students entering from Grade XII must write the scholarship examinations conducted in June by the Department of Education. To be eligible a candidate must be a member, or the son, daughter, or legal ward of a member of the Union in good standing. Those who wish to be considered must give full details of their own or their parents membership in the Union. Application must be made on the appropriate Application Form for Scholarship, which may be obtained from, and must be returned to, the Scholarship and Bursary Office, Room 207, Buchanan Building, University of B.C. The last day for receiving applications is June 1st.

RETAIL, WHOLESALE AND DEPARTMENT STORE UNION, LOCAL 517, SCHOLARSHIP — This scholarship of \$250 is offered to dependents or legal wards of members of Local 517. It is open to competition to applicants who are proceeding from Grade XI to any accredited University or College in British Columbia, in a full programme leading to a degree or diploma. To be eligible for consideration an applicant must have a satisfactory academic standing (normally 65% or better

average). In the selection of the winner the basic factor will be the academic standing of the applicant. Should there be a tie the financial need of the applicant and his or her family shall be the deciding factor. Those who wish to apply for this scholarship must obtain a special scholarship form from the Scholarship and Bursary Office, Room 207, Buchanan Building, The University of British Columbia, Vancouver 8, B.C., not later than August 1st. The winner will be selected in consultation with the Union.

(2) Bursaries which must be applied for by July 15.

BRITISH COLUMBIA FOREST PRODUCTS LIMITED BURSARIES — Bursaries to a total of \$8,000, each with a maximum value of \$300, are offered by British Columbia Forest Products Limited to qualified legal dependents of employees who, by June 30 of the year in which the award is made, have or will have served with the Company for at least one year and whose earnings are limited (see Company brochure for details). They are open to students beginning or continuing studies in the fall in a full undergraduate programme of studies at Simon Fraser University, the University of British Columbia or the University of Victoria. Awards will be made to students selected on the basis of their academic standing and need for financial assistance. No award will normally be made, however, to a candidate who obtains an overall average of less than C⁺ or who is required to write supplementals to obtain clear standing in a full year's work. Winners of the Company's Entrance Scholarships will not be permitted to receive a Company Bursary in the same year. All candidates must apply on the Special Bursary form, which may be obtained from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. This application must be received by the University of British Columbia not later than July 15 and must contain the necessary details of family service with the Company. The applicant must forward as soon as possible an official transcript of record at secondary school or university to the University of British Columbia Scholarship and Bursary Committee.

THE GRAND LODGE MASONIC BURSARIES — The Grand Lodge of Antient Free and Accepted Masons of British Columbia annually offers bursaries in the range of \$200 to \$500 each to the sons, daughters, and legal wards of active members of Masonic Lodges in British Columbia or of deceased members who, at the time of death, were active members of these Lodges. The purpose of these bursaries is to give assistance to students who, without financial aid, would find it impossible or difficult to continue their education. Selection of winners will be made by the University of British Columbia from applicants with satisfactory academic standing who are entering undergraduate studies in the first or second year at the University of British Columbia, the University of Victoria, Simon Fraser University, or the B.C. Institute of Technology, in a full programme leading to a degree in any field. In order to be considered, a candidate must obtain from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C., a Special Bursary Application form. The completed application must be received at the University of British Columbia not later than July 15. If the applicant is the son, daughter, or legal ward of a member of the Lodge the application must be accompanied by a letter from the Secretary of the Lodge giving the name and address and details of the lodge with which the applicant's immediate family is or has been associated. Since a special committee considers these awards, a student applying for other bursaries must submit a separate application for them.

RETAIL, WHOLESALE AND DEPARTMENT STORE UNION, LOCAL 470 BURSARY — One bursary of \$250 offered by the Retail, Wholesale and Department Store Union, Local 470 to active members, or sons, daughters and legal wards of active members of the Union in good standing. They are open in competition to applicants who are proceeding from Grade XII to begin studies at the University of British Columbia, the University of Victoria, or Simon Fraser University, in a full programme leading to a degree in any field. To be eligible for consideration a candidate must have a satisfactory academic standing (normally an overall average of at least 65% in Grade XII). In the selection of the winner, the basic factor will be the financial need of the candidates and their families. Those who wish to apply for

this bursary must obtain the University Bursary Form from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of B.C., Vancouver 8, B.C. The completed application must be received not later than July 15th. The winner will be selected in consultation with the Union.

THE RETAIL WHOLESALE & DEPARTMENT STORE UNION LOCAL 580 BURSARY—Two bursaries of \$250 each is offered by the Retail Wholesale & Department Store Union Local 580 to sons, daughters, and legal wards of active members of the Union in good standing. They are open in competition to applicants who are proceeding from Grade XII to begin studies at the University of British Columbia, the University of Victoria, or Simon Fraser University, in a full programme leading to a degree in any field. To be eligible for consideration a candidate must have satisfactory standing (normally an overall average of at least 65% in Grade XII). In the selection of the winner, the basic factor will be the financial need of the candidates and their families. Those who wish to apply for this bursary must obtain the University Bursary Form from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. The completed application must be received by them not later than July 15. The winners will be selected in consultation with the Union.

THE ROYAL ARCH BURSARIES—Four bursaries, in the amount of \$300 to \$500 each, have been established by the Royal Arch Masonic Order to give assistance to sons and daughters of members of Chapters in British Columbia or Yukon Territory in good standing, or of deceased members, who without assistance would be unable to continue through university. They will be awarded annually, on the basis of scholastic standing and need, to eligible students proceeding directly in the fall from Grade XII to a full programme of studies at the University of British Columbia, Simon Fraser University, University of Victoria, Notre Dame University of Nelson or any recognized regional college in B.C. or the B.C. Institute of Technology. Candidates for these bursaries must (a) write the Government Scholarship examinations conducted in June by the Department of Education, B.C.; (b) complete a separate University Bursary form, which may be obtained from the Scholarship Office, Room 207, Buchanan Building, University of British Columbia. This application form, which is to be received by the University not later than July 15, must clearly indicate (i) the applicant's relationship to a member of the Royal Arch Masonic Chapter, the name of the member, and the name of the Royal Arch Chapter in British Columbia or Yukon with which he or she was connected; and (ii) the applicant's financial circumstances and those of his or her immediate family, including the net taxable income of parents for the past year. A letter from the Secretary of the Royal Arch Chapter confirming the details in (i) should be included. Candidates will be considered on the basis of the Scholarship Examinations and the grades obtained in the other courses taken during the year, and on their financial circumstances. If, in the opinion of the University, no applicant is suitably qualified, the award will be withheld.

THE STRY CREDIT UNION BURSARY—A bursary of \$400 is offered by Stry Credit Union to students who are members of the Stry Credit Union, and who are the sons, daughters, or legal dependents of members of at least one year's standing. It is open in competition to students proceeding from Grade XII to attendance at the University of British Columbia or the University of Victoria in a full course leading to a degree. The winner will receive \$300 during the first year of studies and, subject to satisfactory standing, \$100 during the second year. The award will be made on the basis of financial need and academic standing. If no suitable candidates apply in any year, the award will not be made in that year, but will accrue for the purpose of making additional awards in a future year, when more than one suitable candidate has applied. Application on the bursary form obtainable from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C., must be received at the University of British Columbia not later than July 15. The bursary application form must be accompanied by a letter from the General Manager of Stry Credit Union, certifying that the applicant and his or her family meet the membership qualifications.

WHITE SPOT LIMITED BURSARIES—Two bursaries, having a total value of \$1,000 each, are provided by White Spot Limited and its subsidiaries for their employees, and sons and daughters of their employees who have served with the firm

for at least two years. These bursaries are paid in annual amounts of \$250 each and are open in competition to eligible students proceeding from Grade XII of secondary school to a full programme of studies at the University of British Columbia, the University of Victoria, or Simon Fraser University. For purposes of qualification, "employees" shall include students having at least one year's part-time employment with the Company while attending secondary school, and are still employed. The decision as to qualification by employment shall rest with the Company. In all other matters, winners will be selected by the Scholarship Committee of the University of British Columbia on the basis of academic standing and need for financial assistance. To be considered, a candidate must (a) write the standard departmental examinations conducted in June by the Department of Education, B.C., and obtain an overall average of at least 65% in these examinations; (b) submit the special bursary form to the University of British Columbia not later than July 15. This form may be obtained after June 1st from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. Winners will be considered for renewals of these bursaries for their second, third and fourth years of University attendance (up to graduation). Renewals each year, however, are not automatic and will be made only to those who file a new application, pass in all subjects with a minimum overall average of B-, and need financial assistance.

(3) The Chris Spencer Foundation Special Scholarships.

THE CHRIS SPENCER FOUNDATION SPECIAL SCHOLARSHIPS

Special Note: A student should not apply for a Chris Spencer Foundation Special Scholarship unless he has an overall average of over 80% in his school work, ranks well in the top 10% of students in his grade, and if he is a Grade XII student, is likely to have an average of at least 90% in the Government of British Columbia Scholarship Examinations. This high standard of academic excellence must also be combined with distinct achievement in other activities in the school or community.

Three scholarships of \$500 each, with renewals subject to maintenance of academic standing, are offered in competition to students in Grade XII (Secondary School Graduation, Academic-Technical) who, in the session 1974-75, will attend the University of British Columbia, the University of Victoria, or Simon Fraser University for a full academic year in a full programme leading to a degree. For the purpose of these scholarships an academic year at the University of British Columbia or the University of Victoria is the period extending from September of one year to the following May, and at Simon Fraser it consists of two semesters between September of one year and the following September. Each scholarship will be paid in two instalments of \$250 each, the first when the winner begins attendance in the first half of the academic year and the second when he begins attendance in the second half.

Basis of Selection — Winners will be selected on the basis of high scholastic achievement combined with outstanding personal qualities and distinction as exemplified by service to others, interest and participation in the school and/or community in activities such as sports, student government, youth groups, fine arts, music. Special attention will be given to the qualities developed through these activities and of indication, during the period of attendance at secondary school, of moral force of character, and of instincts to lead and to take an interest in classmates. These scholarships are open only to students whose ordinary domicile, home, or residence is in British Columbia and who are attending school in British Columbia.

Method of Application — All candidates must apply on the Chris Spencer Foundation Scholarship Application Form, obtainable from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. The completed form should be returned to the University of British Columbia by April 15, and will not be accepted after May 1. Applicants must be eligible in all respects to compete for Government of British Columbia Scholarships and must write the Government Scholarship Examinations conducted in June by the Department of Education, B.C. Candidates in Grade XII should not apply unless they are likely to obtain an average of 90% or better in these examinations and first class grade (80%) in the other subjects taken during the year.

Renewals — Winners who, in a full programme in an Academic Year, maintain First Class standing or rank in the upper 10% of all students in the year and faculty in which they are registered, will be awarded renewals in the amount of \$500 for the next academic year. Renewals will not be granted after graduation or more than four times after the initial award (whichever is the smaller number of academic years involved.) The renewals are also conditional upon full-time attendance at the University of British Columbia, University of Victoria, or Simon Fraser University. A student is permitted, if he wishes, to transfer from one of these institutions to another, but only once. Deferment of awards (original or renewal) will be considered only for certified medical reasons.

ENTRANCE AWARDS ADMINISTERED BY OTHER INSTITUTIONS AND ORGANIZATIONS

A.U.C.C. AWARDS — a number of entrance awards are administered by the Association of Universities and Colleges of Canada. Students are eligible to apply for the following awards by virtue of their parent's employment with the relevant donor companies. All awards are tenable for any recognized full-time degree course at any Canadian university or college which is a member of the Association of Universities and Colleges of Canada. Candidates must be prepared to enter university in the year of competition. The closing date for receipt of completed applications is June 1st. Candidates must have obtained at least an average of 70% in each of the last two years of secondary school and must send these results as well as confirmation of admission to the university concerned to the A.U.C.C. as soon as they are available. British Columbia candidates are strongly urged to write the S.A.C.U. tests and submit the results with their application. The awards are as follows:

BRICKLAYERS, MASONS & PLASTERERS INTERNATIONAL UNION OF AMERICA — Two awards, one of \$600 one of \$400.

CN CENTENNIAL SCHOLARSHIP PLAN — Eight of \$600 each.

CANADIAN REYNOLDS METALS COMPANY LIMITED SCHOLARSHIP — Four of \$750 each.

CHEMCELL LIMITED UNDERGRADUATE SCHOLARSHIPS — Six of \$700 each.

CONSOLIDATED-BATHURST LIMITED UNDERGRADUATE SCHOLARSHIPS — Ten of \$500 each.

CONSUMERS GLASS COMPANY LIMITED UNIVERSITY EDUCATION AWARDS PLAN — \$750 to each employee's child.

CONTINENTAL CAN COMPANY OF CANADA LIMITED SCHOLARSHIP PLAN — Two of \$750 each.

THE CONTINENTAL INSURANCE COMPANIES CANADIAN SCHOLARSHIP PLAN — Three of \$700 each.

DEPARTMENT OF TRANSPORT SCHOLARSHIPS — Ten of \$500 each.

DOMINION BRIDGE COMPANY LIMITED CENTENNIAL SCHOLARSHIPS — An unspecified number at \$750 each.

GILBEY CENTENNIAL SCHOLARSHIPS — Three of \$500 each.

GULF OIL CANADA LIMITED SCHOLARSHIPS — Seven of \$1,000 each.

I.B.M. - THOMAS J. WATSON MEMORIAL SCHOLARSHIPS — Four valued up to a maximum of \$1,000 each.

INTERPROVINCIAL PIPE LINE COMPANY HIGHER EDUCATION AWARDS — \$700 awarded to each applicant that qualifies for an award.

IRON ORE COMPANY OF CANADA AND SUBSIDIARIES SCHOLARSHIPS — Four of \$700 each.

MARSHALL FIELD-WORLD BOOK/CHILDCRAFT OF CANADA, LIMITED SCHOLARSHIPS — Two of \$1,000 each.

METROPOLITAN LIFE MERIT SCHOLARSHIP PROGRAMME — Five of \$500 each.

MOBIL OIL CANADA SCHOLARSHIPS — Four of \$550 each.

NATHAN CUMMINGS-CONSOLIDATED FOODS SCHOLARSHIP FUND — One of \$1,000 annually.

QUEBEC CARTIER MINING COMPANY SCHOLARSHIPS — Four of \$750 each.

STATE FARM CANADIAN "CENTENNIAL" SCHOLARSHIPS — Two of \$750 each.

SUN OIL (CANADA) CENTENNIAL SCHOLARSHIPS — Four of \$500 each.

TEXACO CANADA MERIT SCHOLARSHIPS — up to twenty annually worth tuition and compulsory fees.

TEXACO EXPLORATION MERIT SCHOLARSHIPS — Five worth annual tuition and compulsory fees.

WARNER-LAMBERT CANADA LIMITED SCHOLARSHIPS — Five at \$750 each.

WEYERHAEUSER CANADA LIMITED — Two of \$750 each.

Candidates for the above-named awards should write directly to Guy P. d'Auray, Director of Awards, A.U.C.C., 151 Slater Street, Ottawa, Ontario, K1P 5N1.

THE W. A. C. BENNETT SCHOLARSHIPS — Five hundred dollars (\$500) given annually to one or more students who complete High School Graduation (University Programme) or Secondary School Graduation (Academic or Technical Programme) standing in June, who write the Department of Education examinations and qualify as prescribed under the regulations for the Government of British Columbia Scholarships. These candidates must submit formal application to the Awards Committee, W. A. C. Bennett Scholarship Trust Fund, Room 15, 246 East Broadway, Vancouver 10, B.C. by June 10 of each year. The application must be submitted by the candidate through the principal of the student's secondary school and must be supported by recommendation from the principal or other responsible person indicating that the student has displayed excellent qualities of leadership, citizenship, character and integrity, and that the applicant has need of financial assistance to permit him to undertake studies in higher education.

Applicants who qualify thus far will then be selected for award primarily on the basis of academic rank as shown by the academic average obtained in June, in keeping with the Government of British Columbia Scholarship regulations. Should a winner later withdraw his application the award would revert to the next eligible applicant in academic rank. The award is tenable for the next full year's study in higher education within the Province in the universities (University of British Columbia, Victoria, Simon Fraser and Notre Dame), in the B.C. Institute of Technology, and in District or Regional Colleges established under the Public Schools Act. Awards may not be deferred from one year to another except in special cases in which the Awards Committee is satisfied the student is unable to continue further study because of certified medical reasons.

THE BOBBY BAUER MEMORIAL AWARD — The Bobby Bauer Memorial Foundation makes one or more awards annually to students demonstrating outstanding proficiency in hockey who qualify for admission to a full-time undergraduate course at a Canadian university.

Application should be made prior to August 31 on forms provided by the Foundation. A letter of reference from a person actively involved in hockey must accompany each application.

Inquiries and application should be sent directly to:

Bobby Bauer Memorial Foundation,
60 Victoria Street North,
Kitchener, Ontario.

THE B.C. ASSOCIATION OF TEACHERS OF CLASSICS SCHOLARSHIP — An annual award of \$100 will be given by the President of the University of Victoria to the leading student in British Columbia Latin 12 who registers at the University of Victoria for a first year course in Latin. Application to compete

should be made through the B.C.A.T.C. Scholarship Committee on forms available from: Mr. E. J. Costain, Chairman, B.C.A.T.C. Scholarship Committee, 1320 Queensbury Road, Victoria, B.C.

THE B.C. INDIAN ARTS SOCIETY MEMORIAL BURSARY — Two bursaries of \$150 each will be awarded annually by the B.C. Indian Arts Society in memory of those Indian Canadians who gave their lives in either World War. Native Indians or non-status Indians who apply, must be from the Province of British Columbia and must be planning to enter one of the established Universities or Colleges in British Columbia, or some recognized Technical School or other training centre. The award will be made by the Executive Committee of the B.C. Indian Arts Society. If no application is received from a student entering the first year of University, then the bursary may be awarded to a student enrolled in any of the senior years. Applications must be in the hands of the Secretary by August 15th. Letters of application should be directed to: The Honorary Secretary, B.C. Indian Arts Society, c/o The Provincial Museum, Victoria, B.C.

CAL CALLAHAN MEMORIAL BURSARY — The Pipe Line Contractors Association of Canada offers a bursary, or bursaries, to the total of \$1,000 per annum, to be awarded annually, to sons, daughters or legal wards of persons who derive their principal income from the Pipeline Industry and whose employers are members of the Association.

The purpose of these bursaries is to give financial assistance to students who are beginning undergraduate studies in a full programme leading to a degree or certificate in any field, at a recognized University or College in Canada. Selection will be made by the Executive Committee of the Association from applicants, based upon scholastic record and financial need, provided that they otherwise qualify.

Applications may be obtained from the Association's Executive Office, Suite 400, 698 Seymour Street, Vancouver, British Columbia V6B 3K7 and must be returned by not later than September 30, 1974 accompanied by a receipt or other proof of enrolment.

COMINCO HIGHER EDUCATION AWARDS — Cominco Ltd. offers awards each year to the sons, daughters, or wards of a person who is regularly employed by Cominco, or of a widow whose husband died while regularly employed by Cominco or of a Cominco pensioner or his widow to encourage students of good scholastic accomplishment to continue their education at an institution of higher learning beyond high school or senior secondary school. Cominco shall offer each year two classifications of awards to children of employees who are students enrolled in a high school or senior secondary school leaving course, preparatory to attendance at an institution of higher education. Class I awards, in the amount of \$500 each, shall be awarded to all students who make application and who have obtained an 86% or better standing, or corresponding letter-grade, in their high school leaving course. Class II awards, in the amount of \$350 each, shall be awarded to all students who make application and who have obtained an average in the 73% to 86% range, or corresponding letter-grade, in their high school leaving course. Applicants for these awards must be planning to attend an accredited Canadian university or college to pursue any course of study which will lead to a recognized degree, or must be planning to attend a recognized junior or regional college, or must be planning to enroll at a recognized provincial institute of technology. In the case of the latter institutions, these must be accredited by or under the supervision of provincial departments of education and where the course of study would lead to a recognized diploma or certificate. Courses of study must be of at least two years duration and will not be applicable when a student would be in receipt of remuneration while also undertaking study. Complete details regarding eligibility as well as application forms may be obtained from: The Secretary, Scholarship and Education Awards Committee, Cominco Ltd., Trail, B.C.

NANCY GREENE SCHOLARSHIPS — Ten scholarships, each for seven hundred fifty dollars (\$750) awarded annually to those British Columbia students who apply and who best combine the qualifications set out below.

Applicants must show evidence of good school and community citizenship, leadership and character, scholastic achievement and athletic ability and performance.

Students are eligible to apply for this award if they are currently registered in a senior-secondary school (including independent and Private schools) and in any recognized college preparatory programme in British Columbia provided they plan to pursue an educational programme at any post-secondary educational institute in the Province of British Columbia.

Applicants must write a personal letter of application to the Selection Committee, in which they should outline their scholastic and athletic achievements in grades 11 and 12 and educational goals. Address the letter in care of the Deputy Provincial Secretary, Parliament Buildings, Victoria, British Columbia. Supporting letters are required from the school Principal and one other member of the community. A transcript of marks should accompany the Principal's letter.

Applications will be reviewed by a Selection Committee which will include representatives from the British Columbia Amateur Sports Council and the Department of Education. Scholarships will be made available to successful applicants after proof that he, or she, has been accepted by the institution concerned and has registered provided they are not in receipt of a similar or other major award of \$500 or more. All applications should be postmarked not later than June 1, 1974, and are to be addressed to the Deputy Provincial Secretary, Parliament Buildings, Victoria, British Columbia.

IMPERIAL OIL HIGHER EDUCATION AWARDS — Imperial Oil Limited offers annually free tuition and other compulsory fees to the children of employees and annuitants who proceed to higher education courses. Initial awards, or renewal of awards, are restricted to students under twenty-five years of age on the date of registration for any undergraduate year.

To qualify, a student must attain an average mark of 70% or higher in the appropriate secondary school examinations in the subjects required for admittance to the approved institution, or must have attained an average of 70% or more in a college year upon which application is based.

Courses may be taken at any Canadian university or other approved institution of higher learning, and awards are tenable for a maximum of four academic years, or the equivalent, at the undergraduate or bachelor degree level. The four levels of academic years are measured from the first year of entering a post-secondary institution.

Further information and application forms may be obtained from The Secretary, Committee on Higher Education, Imperial Oil Limited, 111 St. Clair Avenue West, Toronto 7, Ontario.

THE I.W.A. LOCAL 1-80, BURSARY — The International Woodworkers of America Local 1-80 offers a bursary in the amount of \$400 in open competition to all I.W.A. Local 1-80 members or a wife, son, or daughter of an I.W.A. Local 1-80 member, or to a person who is wholly supported by a member in good standing of Local 1-80. For the purpose of eligibility in applying for the bursary, the wife, son, or daughter of a deceased I.W.A. Local 1-80 member in good standing at the time of decease, or a member who is retired and was a member in good standing of Local 1-80 at the time of retirement, shall also be eligible. In making the award, the bursary committee will be guided by the following: The average marks obtained by the Grade XII student during the school term; Indication of need; All applicants must be on the university programme proceeding to any degree-granting university, the B.C. Institute of Technology, or other accredited vocational or technical school to complete a course leading to establishing a career. All those desiring to compete must notify the Financial Secretary of I.W.A. Local 1-80, 351 Brae Rd., Duncan, B.C. by a letter not later than June 21, 1974. The I.W.A. Local 1-80 reserves the right to withhold the bursary if no candidate makes sufficiently high standing.

MacMILLAN BLOEDEL LIMITED COMMUNITY SCHOLARSHIPS — Eleven scholarships of \$500 each, of which ten are awarded in British Columbia; one in each of School District 65 (Duncan-Cowichan), 67 (Ladysmith-Chemainus), 68 (Nanaimo), 69 (Qualicum), 70 (Alberni), 79 (Ucluelet-Tofino), 48 (Howe Sound), and 85 (Vancouver Island North); and two in School District 47 (Powell River), are offered by MacMillan Bloedel Limited. These scholarships are open to students graduating from Secondary School and proceeding to studies at recog-

nized institutes of higher learning. Awards will be made on the basis of academic ability and potential leadership, as indicated by grade achievements in Grades XI and XII and participation in school activities. The winner in each school will be chosen in June by a committee consisting of the Principal, the Vice-Principal, the Senior Girls' and Senior Boys' Counsellors, and a representative of MacMillan Bloedel Limited. Further information may be obtained from the Principal of the School.

MACMILLAN BLOEDEL LIMITED — SCHOLARSHIPS TO DEPENDENTS OF EMPLOYEES — Ten Scholarships of \$500 each awarded to dependents of employees of MacMillan Bloedel Limited and subsidiary Companies. These scholarships are open to students beginning their studies at any recognized University in Canada or the United States and who are legal dependents of employees of the Company or its subsidiaries. Awards will be made on the basis of academic ability and potential leadership as indicated by grade achievements in Grades XI and XII and participation in school activities. Winners will be selected by a committee of three, two from the Company and one from the British Columbia Department of Education. Application forms which must be submitted by May 31 each year, may be obtained from the Manager or Personnel Supervisor at each operating division, or from the Secretary, Scholarship Committee, MacMillan Bloedel Limited, 1075 West Georgia St., Vancouver 5, B.C.

NAVAL OFFICERS' ASSOCIATION OF BRITISH COLUMBIA BURSARY LOANS — Several bursary loans not exceeding \$300 each are offered to students beginning or continuing studies at the University of British Columbia, Simon Fraser University, Notre Dame University, or the University of Victoria, with the intention either of following a permanent career in the Royal Canadian Navy or following a course of study which, coupled with such person's past associations, will qualify such person as potential personnel for the Royal Canadian Navy in times of national emergency. Preference will be given to present or former members of a cadet force, of a reserve force or of the permanent force, or the sons or daughters of any Commissioned Officer, Warrant Officer, Rating or man who has served or is now serving in the British Commonwealth naval forces or Merchant navies. Awards will be made on the basis of combined academic standing and need. These loans are repayable without interest within eighteen months after graduation. If by the due date the student has joined the permanent force, the loan may be cancelled in its entirety; if he has joined the reserve force 50% of it may be cancelled. Applications should be filed not later than October 15 with the Naval Officers' Association of British Columbia, Box 823, Station A, Vancouver, B.C.

NAVAL OFFICERS' ASSOCIATION OF BRITISH COLUMBIA SCHOLARSHIPS — Several scholarships of amounts up to \$250 each, provided by the Naval Officers' Association of British Columbia are offered to students beginning or continuing studies at the University of British Columbia, Simon Fraser University, Notre Dame University or the University of Victoria with the intention either of following a permanent career in the Royal Canadian Navy or following a course of study which, coupled with such person's past association, will qualify such person as potential personnel for the Royal Canadian Navy in times of national emergency. Preference will be given to present or former members of a cadet force, of a reserve force or of the permanent force, or the sons or daughters of any Commissioned Officer, Warrant Officer, Rating or man who has served or is now serving in the British Commonwealth naval forces or Merchant navies. Awards will be made on the basis of all-round proficiency in the combination of academic studies, need and present or former interest in or association with a cadet force, reserve force or permanent force. Applications should be filed not later than October 15 with the Naval Officers' Association of British Columbia, Box 823, Station A, Vancouver, B.C. Winners of these awards are not precluded from accepting other awards which they may be offered.

ROYAL CANADIAN LEGION (PACIFIC COMMAND) BURSARY/SCHOLARSHIPS — The Legion (Pacific Command), offers annually a number of awards for students proceeding from high school to university, and some awards to students entering second, third and fourth year. These bursary/scholarships are awarded on the basis of academic standing, financial need, and participation and achieve-

ment in student and community affairs. Preference is given to sons and daughters of deceased, disabled, or other veterans, but applications from other worthy students are also considered. Further information may be obtained from Royal Canadian Legion, 1531 West Pender Street, Vancouver 5, B.C.

TRANS MOUNTAIN OIL PIPELINE CO. HIGHER EDUCATION AWARDS —

Up to five Higher Education Awards will be offered annually by the Trans-Mountain Oil Pipe Line Company to sons, daughters and legal wards of regular employees and annuitants, deceased employees, and deceased annuitants. To be eligible a student must attain a minimum standing of 70% in the appropriate secondary examinations in the subjects required for admittance to approved institutions. Each award is tenable for a maximum of four academic years. Selection of winners will be made by the University of British Columbia from applicants who are entering a full programme of studies at the University of Victoria, the University of British Columbia, Simon Fraser University, or the British Columbia Institute of Technology. The value of award payments shall equal the tuition and other compulsory fees for the academic year. No portion of an eligible fee which is paid by a government shall be included in the amount paid as awards by the company. Further information and application forms may be obtained from Division Offices or the Personnel Dept. and forwarded to: The Trans Mountain Higher Education Awards Committee, c/o The Royal Trust Tower, Bentall Centre, Vancouver 2, B.C.

THE UNIVERSITY OF VICTORIA SCIENCE FAIR AWARD — The President of the University will award \$50 to the winner of the Senior Division of the Greater Victoria Regional Science Fair. The award is tenable only when and if the winner registers in a full programme of studies at the University of Victoria.

VICTORIA MECHANICAL TRADE PROMOTION FUND SCHOLARSHIP —

Provides a scholarship of three hundred dollars (\$300) each year, based on academic standing only with no reference to financial status or income. The award is open to students entering first year at the University of Victoria. Applicants must be sons, daughters or legal dependents of members of the United Association of Plumbers and Steamfitters, Local 324, who are employed by firms who are contributors to the Victoria Mechanical Trade Promotion Funds as provided in the Collective Agreement. Applicants may also be sons, daughters, or legal dependents of employers who employ members of the United Association of Plumbers and Steamfitters, Local 324 and who are contributors to the Victoria Mechanical Trade Promotion Fund. Further information may be obtained from Mr. E. H. McCaffery, Secretary Manager, B.C. Branch, Canadian Plumbing and Mechanical Contractors Association, 1128 West Georgia Street, Vancouver 5, B.C.

VICTORIA WOMEN'S CANADIAN CLUB SCHOLARSHIPS — (1) One hundred and fifty dollars (\$150) awarded to the female student attending a public high school in Greater Victoria School District (No. 61) who makes the highest standing in the Departmental Examinations, held in June, and registering for a full first year course in the University of Victoria or the University of British Columbia, the following September.

(2) One hundred and fifty dollars (\$150) awarded to the male student in Greater Victoria School District making the highest standing in the same examinations and under the same conditions. Should the student, in either case, be awarded a scholarship from any other source, the Club Scholarships shall then revert to the student having the next highest standing.

THE WESTMINSTER REGIMENT ASSOCIATION SCHOLARSHIP —

Two scholarships of \$250 each, the gift of the Westminster Regiment Association, will be awarded annually to worthy and deserving students who are entering or attending universities within Canada or outside Canada. But one scholarship may also be awarded to a person pursuing a non-academic study at a vocational school or similar institution. To be eligible, applicants must be direct descendants, male or female, of a member of the Westminster Regiment Association, or a member of the Westminster Regiment CA(M) or one of those battalions which the Westminster Regiment perpetuates, i.e. the 47th, 104th or 131st. The applicant may be in his or her final year of secondary school or any year of post secondary study, and may be

resident in any place within Canada or outside Canada. The basis of the award will be academic standing in previous studies and need of financial assistance. The Application for Scholarship Form is obtainable from the Scholarship Committee, The Westminster Regiment Association, Box 854, New Westminster, B.C. The cut-off date for applications is June 30.

THE HON. W. C. WOODWARD UNIVERSITY MEMORIAL SCHOLARSHIPS

— These scholarships, each of \$500 per year, and renewable annually in the same amount at the beginning of each undergraduate year (up to a maximum of five payments in all), are offered in competition to sons, daughters, and legal dependants of regular full-time staff, of retired staff (retired on Store pension), and of deceased staff (who died while a Woodward's regular full-time staff member). Two of these scholarships are available for attendance at the University of Alberta, University of Calgary, or the University of Lethbridge, and three are available for attendance at the University of British Columbia, the University of Victoria, Simon Fraser University, or Notre Dame University of Nelson. They are open to applicants, beginning University attendance for the first time, and entering from Grade XII or XIII of secondary school (or any other source provided they are qualified for admission). Alberta candidates must write the Provincial examinations and British Columbia candidates must write the Government scholarship Examinations conducted by the Provincial Department of Education. Awards will be made on the basis of (a) academic standing, (b) activity and interest in youth programmes, organizations and athletics within school and community, and (c) personal qualities, character and demonstration, during attendance at school, of citizenship, leadership, and service. Annual renewals are subject to maintenance of satisfactory academic standing, progress, and conduct. Application forms are available from the Personnel Offices of all Woodward's Stores from February 1st onwards and must be completed and returned to Woodward's by July 15th. Applicants must include the official transcript of their Secondary School record issued by the Department of Education of the Province. If the transcript is not available by July 15th., it must be forwarded by the student at the earliest possible date after July 15th., directly to the Administrator of Students Awards Office, University of Alberta, Edmonton, by the Alberta applicants, or to the Chairman, Joint Faculty Committee on Prizes, Scholarships and Bursaries, University of British Columbia, Vancouver 8, by the B.C. applicants.

SECTION 2

GOVERNMENT OF BRITISH COLUMBIA AWARDS

NOTE: Both these awards are subject to change after the Calendar goes to press.

GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA SCHOLASTIC AWARDS — The Provincial Government will give a money-prize in the amount of two hundred dollars (\$200) to each of a number of the top-ranking eligible students in the University of British Columbia, the University of Victoria, Notre Dame University of Nelson and the British Columbia Institute of Technology on the basis of their standing upon completion of a full programme of studies extending through the two consecutive terms comprising one academic year.

1. *Residence Requirements*

- (a) To be eligible, a candidate must be a Canadian Citizen or must have Landed Immigrant Status on or before September 1, 1972. Landed immigrants *may* be required to attach a photo copy of their Landed Immigrant Certificate.
- (b) To be eligible, a candidate must have resided continuously in the Province of B.C. since September 1, 1972. Exceptions to this regulation will be:
 - i) a student who is a resident of B.C. and who leaves the Province for a period not exceeding four consecutive months shall not thereby forfeit his eligibility under the Scholastic Award regulations.
 - ii) a student who is a resident of B.C. and who leaves this Province to pursue a full-time, full-programme of studies at a designated (accredited) institution shall not thereby forfeit his/her eligibility for a Provincial Scholastic Award on the basis of subsequent full programme study in British Columbia.

2. *Eligible Programmes of Study*

To be eligible, a candidate must be classified as enrolled in a post-secondary programme of study which leads to the first degree, diploma or certificate of that programme at a participating institution.

Furthermore, these awards are *not* open to students registered as:

- (a) Qualifying or unclassified at the post-baccalaureate level.
- (b) Students registered in a faculty of graduate studies.

3. *Qualification of Recipients*

Each student wishing to participate in the Scholastic Awards competition must submit an application to the Financial Awards Officer according to the time schedule established by the participating institution.

These Scholastic Awards shall be granted only to students whose average standing is 70% or higher (or equivalent Grade Point Average).

PROVINCE OF BRITISH COLUMBIA BURSARIES — The Government of the Province of British Columbia annually provides funds to assist students who are residents of this Province to commence or to continue an acceptable full-time programme of post-secondary studies at designated post-secondary educational institutions:

- (a) within the Province of British Columbia;
- (b) in other provinces of Canada when:
 - (i) an acceptable course of professional study in a particular programme is not provided within the Province of British Columbia, or
 - (ii) when admission to an acceptable course of professional study in a British Columbia university is rejected only because registration in that particular Faculty is filled;
- (c) in exceptional circumstances, in other countries when an acceptable course of study in a preferred professional programme is not available at any designated institutions in Canada.

In cases provided for under (b) and (c) above the eligibility of the student and the acceptability of the programme will be decided by the British Columbia Student Aid Committee which may require the applicant to declare that he will return to the Province of British Columbia to practice the profession for which he qualifies.

The Provincial Bursary Plan is administered in conjunction with the Canada Student Loans Plan, its purpose being to enable qualified needy students to reduce the amount of indebtedness they must incur to continue their post-secondary education. As the Provincial Bursaries are free grants of money from public funds students, and the parents of students defined under the Plan as financially dependent, must accept the principle that they are primarily responsible for provision of the funds required for the expenses of post-secondary education. The Provincial Bursaries Plan and the Canada Student Loans Plan make available means to supplement funds available from the student/family resources.

The British Columbia Provincial Bursary is available to only those students who are proceeding to a diploma or a first degree at the undergraduate or equivalent level of a post-secondary programme of study. A Provincial Bursary will not be granted to students in Post-Graduate Studies, nor to those registered as "qualifying" or "unclassified".

There are four categories of bursaries. The amount of that granted to an applicant for assistance depends upon the total amount of his financial need as determined under the Regulations of the Canada Student Loans Plan, and as recommended to the British Columbia Student Aid Committee.

To qualify for the grant of a Province of British Columbia Bursary (money that does not have to be repaid) a student must:

- (1) comply with the criteria of the Canada Student Loans Plan, as administered by the Provincial Authority of British Columbia;
- (2) submit in accordance with the instructions stated on the form a fully completed: APPLICATION FOR FINANCIAL ASSISTANCE;
- (3) have been resident in this Province for not less than twelve consecutive months prior to the first day of the month in which he commences the programme of study for which he seeks financial assistance. In the case of students qualifying under the provisions of (b) and (c) above, the year of residence within this Province need not be that immediately preceding this academic session, but the proviso exists that the student shall not have established residence of twelve consecutive months (excluding periods of post-secondary study) in another province or country;
- (4) have completed successfully his last previous full-time full course load for an academic year of two terms or two semesters, without a failure in any course requisite for unconditional admission to the next higher academic session. Students allowed to advance while carrying a deficiency of academic credits will not be eligible for assistance under the Provincial Bursary Plan until the deficiency is made up.

The Provincial Bursaries may be granted only to students in full attendance in a full programme of undergraduate or equivalent level of post-secondary studies. These awards are not open to students in graduate studies or registered as "qualifying" or "unclassified" students.

The form of: "APPLICATION FOR FINANCIAL ASSISTANCE" and the accompanying "INFORMATION BROCHURE" are available from the Financial Aid Officer of the designated institution the applicant is (or will be) attending in British Columbia. British Columbia students attending institutions outside this Province should apply directly to: Student Affairs Branch, Division of Post-Secondary Services, Department of Education, Parliament Buildings, Victoria, B.C.

PREMIER'S ATHLETIC AWARDS/BRITISH COLUMBIA ATHLETIC AWARDS—Five Premier's Athletic Awards, each for one thousand dollars (\$1,000) and 25 British Columbia Athletic Awards, each for five hundred dollars (\$500), awarded annually to those British Columbia students who apply and who meet the qualifications set out below.

Applicants must show evidence of athletic ability and performance, leadership and character, and scholastic achievement. Students are eligible to apply for these awards

if they are residents of British Columbia and are pursuing an educational programme at any designated post-secondary educational institution in the Province of British Columbia.

Applicants must write a personal letter of application to the Selection Committee, in which they should outline their athletic and scholastic achievements. They must ask the head of the athletic department of the post-secondary education institution and one other prominent sports leader in the community to send a confidential supporting letter direct to the Selection Committee. The athletic director should attach a statement of athletic achievements and other leadership participation.

Applications will be reviewed by a Selection Committee appointed by the British Columbia Physical Fitness and Amateur Sports Fund Committee. The top five applicants selected by the Selection Committee will be awarded the Premier's Athletic Awards of \$1,000 each, and the next 25 applicants selected in order of merit will be awarded the B.C. Athletic Awards of \$500 each. The Athletic Awards will be made available to successful applicants after proof that he or she is attending the institution concerned provided they are not in receipt of a similar or other major award of \$500 or more. All applications should be postmarked *not later* than June 1, 1974 and should be addressed to Chairman, British Columbia Physical Fitness and Amateur Sports Fund Committee, Parliament Buildings, Victoria, British Columbia.

NANCY GREENE SCHOLARSHIPS — Twenty scholarships, each for seven hundred fifty dollars (\$750) awarded annually to those British Columbia students who apply and who best combine the qualifications set out below.

Applicants must show evidence of good school and community citizenship, leadership and character, scholastic achievement and athletic ability and performance. Students are eligible to apply for this award if they are currently registered in a senior-secondary school (including independent and Private schools) and in any recognized college preparatory programme in British Columbia provided they plan to pursue an educational programme at any post-secondary educational institute in the Province of British Columbia.

Applicants must write a personal letter of application to the Selection Committee, in which they should outline their scholastic and athletic achievements in grades 11 and 12 and educational goals. Address the letter in care of the Deputy Provincial Secretary, Parliament Buildings, Victoria, British Columbia. Supporting letters are required from the school Principal and one other member of the community. A transcript of marks should accompany the Principal's letter.

Applications will be reviewed by a Selection Committee which will include representatives from the British Columbia Amateur Sports Council and the Department of Education. Scholarships will be made available to successful applicants after proof that he, or she, has been accepted by the institution concerned and has registered provided they are not in receipt of a similar or other major award of \$500 or more. All applications should be postmarked *not later* than June 1, 1974, and are to be addressed to the Deputy Provincial Secretary, Parliament Buildings, Victoria, British Columbia.

QUEEN ELIZABETH II BRITISH COLUMBIA CENTENNIAL SCHOLARSHIP — Seven thousand dollars (\$7,000) awarded annually to one student commencing in the fall of that year. Normally the scholarship will be awarded in the amount of \$3,500 each year for two successive years of study, but the Committee may, in exceptional circumstances, award the full sum of \$7,000 for one year of study. In exceptional cases in which the scholarship winner finds it necessary to undertake a third year of post-graduate study to complete his/her training, he/she may apply during the second year of such studies for an additional scholarship of \$3,500.

This scholarship was formed to commemorate the visit of Queen Elizabeth II to British Columbia in May 1971 during the Centennial celebrations. The purpose of this scholarship is to enable selected British Columbians, who have graduated from a public university of the Province, to take further studies at approved universities (or equivalent institutions of higher learning) in the United Kingdom. The scholarship is administered through the Office of the Deputy Provincial Secretary by a special committee, headed by the Premier as Honorary Chairman. The special com-

mittee consists of representatives of the Provincial Secretary's office, the Department of Education, and each of the three public universities of the Province.

The scholarship will be awarded each year on a competitive basis to a graduate of Simon Fraser University, the University of British Columbia, or the University of Victoria

- (a) whose final three years of academic courses leading to his or her first undergraduate degree were all taken in British Columbia;
- (b) whose ordinary private domicile, home, or residence is, in the opinion of the Selection Committee, in British Columbia;
- (c) who is a Canadian citizen; and
- (d) who is not more than 25 years of age in the year in which he or she makes application, although the Selection Committee reserves the right to make exceptions to this rule.

Applicants should be persons of unusual worth and promise. The Selection Committee will make its selection on the basis of academic achievement, demonstrated aptitudes, personal qualities and character, interest and participation in university and community affairs, and proposed programmes of study. All decisions made by the Selection Committee are final.

A successful candidate may not accept other grants or awards unless approved by the Selection Committee. In accepting the award, a candidate assumes the responsibility of following the programme outlined in his or her application. The Selection Committee does not assume any responsibility for the admission or acceptance of a candidate by the institution where he or she proposes to study. If admission is not obtained, the award may be withdrawn. At the conclusion of the period of tenure on the scholarship, the holder is requested to send a brief report on his or her progress to the Selection Committee. The scholarship will be paid in equal amounts at intervals of six months. The first payment will be available prior to commencement of study on the scholarship. All inquiries, applications, and all documents pertaining to this scholarship must be forwarded directly to the Deputy Provincial Secretary, Legislative Buildings, Victoria, British Columbia. Applications for study commencing in the fall of 1974 must be submitted by March 1, 1974. Documents and applications, which cannot be returned, become the property of the Selection Committee.

1. Each applicant must arrange for official transcripts of his or her post-secondary academic record to be forwarded directly to the Deputy Provincial Secretary's Office from the registrars of the institutions concerned.
2. Each applicant must arrange for at least three confidential testimonials to be forwarded from persons who have a good knowledge of the applicant's ability, interests, achievements, character, and academic worth.
3. Each applicant must complete the official application form and forward it, along with a letter which includes
 - (a) a brief outline of the applicant's interest and participation in college and and community affairs, and his or her special achievements and hobbies;
 - (b) an outline of the programme of studies to be undertaken by the applicant if awarded the scholarship, including the name of the institution to be attended;
 - (c) an outline of the applicant's future plans for a career;
 - (d) additional information which the applicant considers to be in the interests of his or her application

SECTION 3

UNIVERSITY BURSARIES REQUIRING APPLICATION

In May 1965, the Board of Governors established a Tuition Assistance Bursary Fund. The Board expressed its concern about the possibility of certain qualified students not being able to attend the University because of serious financial difficulties.

Students who make application for assistance under this Bursary Fund are reminded:

- a) that the Fund is intended to assist students who are in serious financial difficulty;
- b) that students who do not come from low-income families, as defined by the B.C. Student Aid Committee, should not normally expect to receive assistance. Where there are special circumstances, appropriate consideration will be given, and each case will be judged on its own merits;
- c) that applicants may be asked to interview a committee or an officer of the University;
- d) that, in general, only those students who are registered for a full programme of courses are eligible for assistance, and that the fund is confined to those students who satisfy residence requirements necessary to obtain assistance through the Province of B.C.

Applications will be acceptable only after registration and must be submitted by dates specified on the application form. Application forms are available from the Financial Aid Officer, Registrar's Office.

Completed application forms should be returned to:

Financial Aid Officer,
Registrar's Office,
University of Victoria,
Victoria, B.C.

SECTION 4

UNDERGRADUATE AWARDS FOR WHICH NO APPLICATION IS NECESSARY

The awards listed in this section are open only to students who attended the University of Victoria in the regular Winter Session specified in this calendar. They are awarded automatically on the basis of merit or on nomination by departments and applications from students are not required. Except where terms and conditions of an award specifically state otherwise, award winners must return to the University of Victoria in the next regular session and must enrol in a full programme.

FOR HEADS OF THE GRADUATING CLASSES

THE GOVERNOR-GENERAL'S MEDAL—The Governor-General's Medal is awarded annually to the candidate in the Faculty of Arts and Science, registered for the B.A. or B.Sc. degree, who stands at the head of the graduating class on the basis of the graduating average.

DR. MAXWELL A. CAMERON MEMORIAL MEDALS AND PRIZES—The British Columbia Teachers' Federation annually offers a silver medal and a prize to the student completing the final year of the B.Ed. degree (secondary programme), who achieves the highest standing in general proficiency with a first-class standing in practice teaching. A similar award is made to a student in the B.Ed. elementary programme. Selection of the students is left to the Faculty of Education, University of Victoria.

UNDERGRADUATE AWARDS

***THE KATHLEEN AGNEW MEMORIAL SCHOLARSHIP**—Two hundred and fifty dollars (\$250) is granted for the purpose of stimulating the study of the History of Canada. If funds permit, an additional award of \$100 may be granted.

ALLIANCE FRANCAISE SCHOLARSHIP—Two scholarships of one hundred dollars (\$100) each awarded: (1) to the student in the second year who has made the most progress in French and who intends to continue university work in this subject; (2) to the best student entering the fourth year of a Majors programme in French.

BAPCO PAINT LIMITED SCHOLARSHIP—One hundred dollars (\$100) to be awarded to a student majoring in Chemistry with the highest standing in second year and who continues studying Chemistry in the third year. Should the student receive another scholarship, not including the government scholarship, the Bapco scholarship should be awarded to the student with second highest standing subject to the same terms, or the third, etc. Selection will be made by the Committee on Awards in consultation with the Department of Chemistry.

BETA SIGMA PHI SORORITY CITY COUNCIL BURSARIES—Two awards of one hundred dollars (\$100) each to be awarded annually to two promising and deserving women students entering third or fourth year in Arts and Science or Education at the University of Victoria.

***THE DR. NORMAN BETHUNE MEMORIAL AWARD**—An annual award of fifty dollars (\$50) will be made available in memory of Dr. Norman Bethune. The award is to be made to a third or fourth year student in the Department of Geography on the basis of high standing in Geography 464. Selection will be made by the Senate Committee on Awards on the recommendation of the Department of Geography.

BLANEY'S TRAVEL SERVICE LTD. AWARD—An annual award of two hundred dollars (\$200) will be provided to a deserving and promising student who is returning to the University of Victoria in the following session. The selection will be made by the Senate Committee on Awards.

*Administered by the University of Victoria Foundation.

*THE BRITISH COLUMBIA 1958 CENTENNIAL SCHOLARSHIP — Six Hundred Dollars (\$600) to be awarded annually to a student who has completed at least one year at the University of Victoria and who is continuing University studies in the Province of British Columbia. The award will be made on the basis of scholastic achievement and effective participation in campus activities.

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY SCHOLARSHIPS — Four scholarships of \$250 each to be awarded for the 1974-75 session for general proficiency to students who have completed at least one year of studies at the University of Victoria. Winners must continue university studies in the following regular session.

THE BRITISH COLUMBIA TELEPHONE COMPANY SCHOLARSHIP — One hundred dollars (\$100) awarded to a student of first or second year for excellence in Physics. The winner must continue university studies.

CAMOSUN GYRO CLUB BURSARY — The Camosun Gyro Club of Victoria will present a bursary in the amount of one hundred and fifty dollars (\$150) annually to a promising and deserving student of the first year going into second year.

CANADIAN DAUGHTERS' LEAGUE, ASSEMBLY No. 5 — GERTRUDE M. RALSTON MEMORIAL BURSARY — One hundred dollars (\$100) awarded to a deserving student, preferably one in Canadian history.

*THE G. CLIFFORD CARL MEMORIAL BURSARY — Three hundred dollars (\$300) awarded annually to a deserving student entering third or fourth year in the Faculty of Education and specializing in the Biological Sciences. Selection of the recipient will be made by the Senate Committee on Awards upon the recommendation of the Faculty of Education.

JOHN WESLEY AND EMILY E. CHURCH MEMORIAL SCHOLARSHIP — One hundred dollars (\$100) awarded annually by Mr. W. J. V. Church to a promising student with high academic standing in Latin, or in Greek, or in Latin and Greek, in the first year, and continuing with the subject (or subjects) in the second year at University of Victoria.

*THE CLEARIHUE BURSARY — Three hundred dollars (\$300) awarded annually by Dr. and Mrs. J. B. Clearihue to a promising and deserving student in the Faculty of Education, who shows promise and who has at least a good second class average.

THE COMITAS CLUB SCHOLARSHIP — Fifty dollars (\$50) to be awarded to a promising and deserving student from first, second or third year in the Faculty of Education who is returning for the following year.

*MARY HANNAH COOPER SCHOLARSHIP FUND — An annual award of three hundred and fifty dollars (\$350) will be made to a worthy and deserving student. The selection will be made by the Senate Committee on Awards.

*THE EDGAR FERRAR CORBET SCHOLARSHIP — Two hundred and fifty dollars (\$250) to be awarded annually for proficiency in English to a second year student who is a graduate of a British Columbia public high school and who will be majoring or honouring in English in the third year.

*MATTHEW COWAN ANNUAL SCHOLARSHIP — One hundred and fifty dollars (\$150) awarded annually to a promising student with high academic standing. The winner must continue at the University of Victoria.

*CRESTVIEW-CHELSEA THEATRE AWARD — An award of one hundred dollars (\$100) will be offered at the discretion of the Theatre Division to a promising and deserving student in Theatre who is continuing at the University of Victoria.

*Administered by the University of Victoria Foundation.

*THE ADELINE JULIENNE DELOUME MEMORIAL SCHOLARSHIPS — One hundred dollars (\$100) each to be awarded to the first year female student and the first year male student attaining the highest grades in French in first year university and intending to continue studies in French at the University of Victoria. Additional awards will be presented to students in the Honours and Major Programmes, up to a total of \$1,800.

THE T. EATON COMPANY LIMITED SCHOLARSHIP — Four hundred dollars (\$400) awarded annually to the third-year student who, in the opinion of the Department of Economics, is most proficient in the study of consumer behaviour under competitive market conditions. Selection will be made by the Senate Committee on Awards upon the recommendation of the Department of Economics, to a student with a first-class average.

PERCY H. ELLIOTT MEMORIAL SCHOLARSHIP — One hundred and thirty dollars (\$130) awarded to a student of outstanding merit and promise in one specific field of study, who has also a high general academic standing and qualities of character indicating worthiness to hold the scholarship. The scholarship is awarded, upon the recommendation of the Committee on Awards, to a student in the first or second year, proceeding immediately towards a degree.

*THE H. O. ENGLISH SCHOLARSHIP — Two hundred and fifty (\$250) dollars to be awarded annually for general proficiency and high standing in practice teaching to a student who is returning for further study in the Faculty of Education.

FACULTY WOMEN'S CLUB PRIZE — One hundred dollars (\$100) to be awarded to a deserving woman student continuing studies either at winter or summer session.

FINE ARTS BURSARIES — A variable number of bursaries are available each year to students registered in any year of the Visual Arts programme in the Faculty of Fine Arts on the basis of talent and need. The amount of each bursary is determined by funds available and the number of bursaries awarded. Selection to be made by the Senate Committee on Awards on the recommendation of the Department of Visual Arts.

*THE FRANK AND MARGARET GIBBS SCHOLARSHIPS — Five scholarships of three hundred dollars (\$300) each will be awarded in Arts, Sciences, Fine Arts, and Education, on the basis of distinction in scholarship. Award winners must continue academic work at an approved university.

THE GRAND POST OF THE NATIVE SONS OF B.C. — BRUCE McKELVIE SCHOLARSHIP — Two hundred and fifty dollars (\$250) to be awarded annually to a third-year Anthropology student with the highest standing in a course relating to Anthropology in B.C. The student must be a Canadian citizen and must return to the University of Victoria in the next regular session.

THE HARBORD SCHOLARSHIP IN MUSIC — An annual scholarship of five hundred dollars (\$500), donated by Mr. & Mrs. Justin V. Harbord, will be available to an outstanding student in the second, third, or fourth year of study for the Bachelor of Music degree. Selection will be made by the Senate Committee on Awards in consultation with the Department of Music.

*THE GEORGE HAMILTON HARMAN MEMORIAL SCHOLARSHIPS — Two scholarships of two hundred dollars (\$200) each, made available by Miss Emily A. Harman of Toronto in memory of her late brother, will be awarded for proficiency in money and banking or in Economics.

*THE WILLIAM A. AND FRANCES E. HARPER SCHOLARSHIP — One hundred dollars (\$100) to be awarded annually to a deserving and promising student in the Faculty of Education.

*Administered by the University of Victoria Foundation.

THE DON INGHAM MEMORIAL SCHOLARSHIP—This scholarship of two hundred dollars (\$200) is awarded annually by the Victoria Newspaper Guild, Local 223, A.N.G., in memory of Don Ingham, widely-known journalist and amateur astronomer. The scholarship will be awarded to the student in Astronomy 200 who stands first in that course and who is returning to the University of Victoria and planning to take further courses in Astronomy.

THE ITALIAN ASSISTANCE CENTRE BURSARY—Two hundred and fifty dollars (\$250) to be granted annually to a needy student who has shown good proficiency in the Italian language and who will be returning to the University of Victoria for further studies in Italian. Selection will be made by the Senate Committee on Awards upon the recommendation of the Department of Hispanic and Italian Studies.

THE DENIS KING MEMORIAL SCHOLARSHIP IN MUSIC—An annual scholarship of \$300 donated by the King family in memory of Denis King, who was a student in the Department of Music at the time of his death in 1972. The award will be made to an outstanding third-year student in Composition or Voice. Selection of the recipient will be made by the Senate Committee on Awards upon the recommendation of the faculty members of the Department of Music.

***FREEMAN F. KING SCHOLARSHIP**—Two hundred and fifty dollars (\$250) awarded to a student entering third or fourth year, preferably the latter, and preparing for a career in natural history, considered in a broad sense. The award is to be based on high academic standing and demonstrated interest in field studies, especially in terrestrial biology. The recipient will be selected from candidates recommended by Biology Department staff members.

KIWANIS SCHOLARSHIP—Two hundred and fifty dollars (\$250) awarded to a man student completing the first year and entering the second year at University of Victoria. Selection of the recipient to be made by the Senate Committee on Awards in conference with the Kiwanis Club of Victoria.

***THE HAZEL T. KNOX MEMORIAL SCHOLARSHIP**—Three hundred dollars (\$300) awarded annually to a deserving and promising student in an honours programme and continuing into the third or fourth year at the University of Victoria. If funds permit, additional awards of a similar nature will be made by the Senate Committee on Awards.

LEON J. LADNER B.C. HISTORY SCHOLARSHIPS—Two scholarships, one hundred dollars (\$100) to the best undergraduate student studying the History of British Columbia, and one hundred dollars (\$100) for the best graduating essay on the History of British Columbia.

THE LADY LAURIER CLUB SCHOLARSHIP—One hundred dollars (\$100) to be awarded annually by the Lady Laurier Club of Oak Bay to a worthy and deserving student entering fourth year at the University and undertaking a course in Political Science.

***THE REBECCA AND ESTHER LAZARUS SCHOLARSHIPS IN MUSIC**—Two annual awards each of \$150.00 made available by Miss Rivkah Isaacs for outstanding performers entering the third or fourth year of the University music programme. One is to be given to a singer in memory of Rebecca Lazarus Isaacs, and the other to a pianist in memory of Esther Lazarus Levy. In the case of two equally gifted candidates for either or both of the above, need is to be the determining factor. Selection of the recipients will be made by the Senate Committee on Awards upon the recommendation of the faculty members of the Department of Music.

***MARTLET CHAPTER, I.O.D.E. PRIZE FOR SCHOLARSHIP IN HISTORY IN ART**—An annual award of one hundred dollars (\$100) will be presented for excellence in History in Art. The winner will be selected by the Senate Committee on Awards on the recommendation of the Department of History in Art.

*Administered by the University of Victoria Foundation.

- *MARTLET CHAPTER, I.O.D.E., CUTHBERT HOLMES ENGLISH HONOURS ESSAY SCHOLARSHIP — A scholarship to the value of one hundred dollars (\$100) will be awarded annually to the student who has written the best English Honours Graduating Essay. The winner will be selected by the Department of English.
- *THE J. BEATTIE MACLEAN SCHOLARSHIP — One hundred dollars (\$100) awarded annually to a student of outstanding merit and promise in second or third year who intends to continue studies in German at the University of Victoria. Selection will be made by the Senate Committee on Awards upon the recommendation of the Department of Germanic Languages and Literature.
- ROBERT BURNS McMICKING CHAPTER I.O.D.E. SCHOLARSHIP — Seventy-five dollars (\$75) to be presented annually to a student in the Faculty of Education who has shown outstanding ability in practice teaching, who has high academic standing in the field of kindergarten or primary education and who will be continuing studies in this field.
- THE ANGELINA NORRIS BURSARY — Fifty dollars (\$50) awarded annually to a needy and deserving student of modern languages in his first, second or third year who is returning to the University to complete his studies. Preference will be given to a student of German, at the discretion of the Department.
- THE OAK BAY BUSINESS AND PROFESSIONAL WOMEN'S CLUB BURSARY — One hundred dollars (\$100) to be awarded annually to a woman student who attains honours standing in History 350 — History of the Canadian West.
- OCEAN CONSTRUCTION SUPPLIES LIMITED, SCHOLARSHIP — One hundred dollars (\$100) awarded annually to the student in first year who obtains the highest standing in Chemistry and who intends to continue studies at the University of Victoria or at any other university.
- *B. W. PEARSE SCIENCE SCHOLARSHIPS — Three scholarships of two hundred dollars (\$200) each will be awarded to the top third year student enrolled in an honours course in Biology, Chemistry and Physics.
- CHAPTER N, P.E.O. MEMORIAL PRIZE — One hundred dollars (\$100) awarded annually by Chapter N, P.E.O. Sisterhood, to a woman student in first year for excellence in English.
- *THE ALAN PRATT MEMORIAL SCHOLARSHIP — One hundred dollars (\$100) awarded annually to a student with broad interests completing second year.
- THE PRESIDENT'S SCHOLARSHIPS — A number of scholarships up to the value of five hundred dollars (\$500) each will be awarded annually by the Senate Committee on Awards. Awards will be made in Arts, Sciences, Fine Arts, and Education, on the basis of distinction in scholarship. In making the awards, the Committee will take into account any other scholarships candidates have received. Award winners must return to the University of Victoria in the next regular session and must enrol in a full programme in order to retain the award.
- THE PROFESSIONAL MEN'S GARDEN CLUB OF VICTORIA SCHOLARSHIP — One hundred dollars (\$100) awarded annually to a third year student in Botany on the basis of academic attainment. The award is to be made on the recommendation of the Department of Biology.
- RITHET CONSOLIDATED LIMITED BURSARY — One hundred dollars (\$100) to be offered to a promising student registered at the University of Victoria and continuing academic studies.
- ROTARY CLUB OF SAANICH SCHOLARSHIP — One hundred dollars (\$100) to be awarded annually to the full-time third year student who obtains the highest standing in two upper year Psychology courses and is continuing studies at the University of Victoria or at some other recognized university.

*Administered by the University of Victoria Foundation.

ROTARY CLUB OF VICTORIA SCHOLARSHIP—Two hundred and fifty dollars (\$250) to be awarded to the student taking the highest standing in first year English.

*ROYAL INSTITUTION AND FRANK EATON MEMORIAL SCHOLARSHIP—One hundred (\$100) awarded to the student taking the highest standing in English of the second year.

THE MADAME SANDERSON MEMORIAL SCHOLARSHIP—Fifty dollars (\$50) offered annually to a promising student for excellence in English and French of the second year.

*THE EDWARD J. SAVANNAH MEMORIAL SCHOLARSHIP—Two hundred and fifty dollars (\$250), subscribed by his friends and former students, to be awarded annually to a student proceeding to third year science at the University of Victoria or elsewhere.

SEASPAN INTERNATIONAL LTD. SCHOLARSHIP—One hundred and fifty dollars (\$150) awarded annually to the student leading courses numbered 200 in any two of the following departments: Biology, Chemistry, Geography, Mathematics, Physics. The winner must continue his academic work at an approved university.

*THE NORA LUGRIN SHAW MEMORIAL SCHOLARSHIP—Seventy-five dollars (\$75) to be awarded annually to the student of History who writes the best essay dealing with the Magna Carta, The Petition of Rights and The Bill of Rights as the Fountainhead of Constitutional Liberties. The award is to be made on the recommendation of the Department of History.

THE ANDREW SHERET, LTD. SCHOLARSHIP—One hundred and fifty dollars (\$150) to be awarded annually to a student achieving high academic standing and who is continuing studies at the University of Victoria.

THE A. W. SHERET SCHOLARSHIP—One hundred and fifty dollars (\$150) awarded annually to a promising student with high academic standing who is continuing studies at the University of Victoria.

*THE DOROTHY SOMERSET SCHOLARSHIP IN THEATRE—An annual scholarship of \$150, made available by Miss Rivkah Isaacs of Victoria, will be awarded to that third or fourth-year student who, in the opinion of the Department of Theatre, displays outstanding talent and devotion to any branch of theatre work. A third-year student must use the award to complete fourth-year studies at the University of Victoria Theatre Department; a fourth-year student is allowed the option of furthering studies at a recognized school of theatre, such as the National Theatre School or the Royal Academy of Dramatic Art. Selection will be made by the Senate Committee on Awards upon the recommendation of the Department of Theatre.

*THE TAYLOR EDUCATION BURSARIES—Annual awards will be made to fourth year students showing outstanding ability and interest in Education and needing financial assistance. If no qualifying students are enrolled in the fourth year, the bursaries may be awarded the next year or be presented to qualified students of the fifth year, at the discretion of the Faculty of Education. The award commemorates the interest in Education by the Taylor family of Victoria.

*THE TAYLOR SCHOLARSHIP IN MUSIC—An annual scholarship of \$500 will be available to an outstanding student in any year of study for the Bachelor of Music degree. Selection will be made by the Senate Committee on Awards on the recommendation of the Department of Music. The award is presented in honour of Dr. M. G. Taylor, the first President of the University of Victoria, and Mrs. Taylor, and is administered by the University of Victoria Foundation. If funds permit, additional awards may be made.

UNIVERSITY EXTENSION ASSOCIATION OF VICTORIA SCHOLARSHIP—Two scholarships of one hundred dollars each (\$100) to be awarded to two worthy and promising students who are returning to the University in the following year.

*Administered by the University of Victoria Foundation.

THE UNIVERSITY OF VICTORIA FACULTY ASSOCIATION SCHOLARSHIP—Two hundred dollars (\$200) to be awarded annually to further the education of a student of good academic standing.

UNIVERSITY WOMEN'S CLUB SCHOLARSHIP—Two hundred dollars (\$200) awarded to the woman student taking the highest standing in her first year of Arts and Science, and continuing her course in the second year at the University of Victoria or at any other university, provided the course desired is not available at this University. When a student wishes to attend a university outside Canada, the reasons for such attendance should be submitted to the Executive of the University Women's Club for approval.

VICTORIA CENTRAL LIONS CLUB—DR. G. C. CARL AWARD—One hundred and fifty dollars (\$150) awarded annually to the top first year student in the Department of Biology who is continuing similar studies at the University of Victoria.

VICTORIA CENTRAL LIONS CLUB—MILLARD H. MOONEY FINE ARTS BURSARY—One hundred and fifty dollars (\$150) awarded annually to a worthy and talented student registered in the Department of Visual Arts in the Faculty of Fine Arts in first, second or third year on condition that the student return to the University of Victoria the following year.

THE VICTORIA COUNCIL, UNITED COMMERCIAL TRAVELLERS OF AMERICA SCHOLARSHIP—One hundred dollars (\$100) awarded annually to the leading student of the Humanities in the second year. The winner must continue university studies.

VICTORIA MUNICIPAL CHAPTER, I.O.D.E. SCHOLARSHIP—One hundred dollars (\$100) awarded to an outstanding student in Canadian History in any year.

VICTORIA NATURAL HISTORY SOCIETY SCHOLARSHIP—One hundred and twenty dollars (\$120) awarded to the most deserving student completing first or second year and specializing in Biology.

***THE R. T. WALLACE SCHOLARSHIP**—Six hundred dollars (\$600) awarded annually to a deserving and promising student entering the third or fourth year at the University of Victoria and taking an Honours Programme in the Humanities, Sciences or Social Sciences. If funds permit, additional awards may be allocated.

***THE WEBER MEMORIAL BURSARY**—One hundred and twenty-five (\$125) to be awarded annually in memory of Mr. and Mrs. E. Weber, to the most deserving student in the third year. Academic standing, citizenship and need are all to be taken into consideration.

***THE WESTAD SCHOLARSHIP**—This scholarship of two hundred and fifty dollars (\$250) is awarded annually for general proficiency to a student entering third or fourth year at the University of Victoria.

THE WESTON BAKERIES, LIMITED, SCHOLARSHIP—Two hundred and fifty dollars (\$250) to be awarded annually to a deserving student completing first or second year and continuing University studies.

THE WOODS TRUST SCHOLARSHIPS—Awarded annually to promising students at the University of Victoria who intend to pursue studies as undergraduates at the university or as post-graduate students at other universities or educational institutions or at any industrial or commercial concern engaged in the field of electrical engineering or in any allied field in the physical sciences. The scholarships are valued at two hundred and fifty dollars (\$250) each.

THE WOODWARD STORES, LIMITED, SCHOLARSHIP—Two hundred and fifty dollars (\$250) to be awarded annually to an outstanding student completing first or second year and continuing University studies.

*Administered by the University of Victoria Foundation.

THE MAY E. WOOTTON MEMORIAL SCHOLARSHIP — One hundred dollars (\$100) to be awarded annually to the student who writes the best term essay in English 200. Selection is to be made by the Senate Committee on Awards on the recommendation of the Department of English.

THE XI NU CHAPTER, BETA SIGMA PHI SORORITY ANNUAL BURSARY — Twenty-five dollars (\$25) to be awarded to a promising and deserving woman student in the third year of a course or courses in Philosophy, Psychology, Sociology, and proceeding to further university work, for books to be chosen in consultation with the winner.

YORKSHIRE TRUST COMPANY SCHOLARSHIP — One hundred and seventy-five dollars (\$175) awarded annually to the outstanding student in Commerce 151 who plans to continue University studies leading to a B.Com. degree.

THE ROSALIND W. YOUNG SCHOLARSHIP — Two hundred dollars (\$200) to be awarded annually by the University Women's Club of Victoria to the leading woman in first year Education who is continuing University studies.

PRIZES

The following prizes are awarded annually to students for distinguished accomplishment.

AUSTRIAN GOVERNMENT BOOK PRIZES — The Austrian Consulate awards book prizes to students in each undergraduate year showing proficiency in German Studies.

THE BECKWITH MEMORIAL BOOK PRIZE IN MUSIC — Given in memory of Harold Arthur Beckwith by his family. Awarded to a graduating Bachelor of Music student for excellence in music. Selection to be made by the Department of Music.

THE BEAVER BOOKS SHOP PRIZE — Donated to the student who stands first in the final examination in English 120.

BIRKS GOLD WATCH — Offered by Henry Birks & Sons (B.C.) Ltd., of Victoria, and awarded annually to a first-class student who has made a valuable contribution to student life.

B.C. HISTORICAL ASSOCIATION BOOK PRIZE — Two prizes awarded to students attaining the highest marks in History 350 (History of the Canadian West).

THE B.C. PSYCHOLOGICAL ASSOCIATION GOLD MEDAL — Awarded annually to a graduating student in the Honours Psychology programme who has demonstrated outstanding achievement in the study of Psychology.

CANADIAN INSTITUTE OF INTERNATIONAL AFFAIRS (Victoria Branch) BOOK PRIZE — An annual prize of twenty-five dollars (\$25) offered by the Victoria Branch, Canadian Institute of International Affairs in alternate years to: 1. the leading student in the History Department at the University of Victoria in a senior course dealing with Canada's foreign policy; 2. and the leading student in Political Science 200.

CLASSICAL ASSOCIATION OF VANCOUVER ISLAND BOOK PRIZES — One prize (not exceeding \$50) or two prizes (not exceeding \$25 each) will be awarded annually by the Classical Association of Vancouver Island for excellence in the study of Classics. Selection will be made by the Senate Committee on Awards on the recommendation of the Department of Classics.

***THE MICHAEL DANE MEMORIAL BOOK PRIZE IN RUSSIAN** — An annual book prize will be given to the top student in first year Russian who proposes to continue the study of Russian for at least one further year at the University. The winner and the prize will be selected by the Department of Slavonic and Oriental Studies.

*Administered by the University of Victoria Foundation.

- *THE DENTON MEMORIAL BOOK PRIZE — An annual book prize to a student in a professional year (elementary field) who has a first class standing in practice teaching and good general proficiency.
- *GWEN DOWNES MEMORIAL BOOK PRIZE — Awarded to the student who gives the best performance in a university play.
- FRANCIS GOLD WRIST WATCH — To be presented each year by F. W. Francis, Ltd. to the student obtaining the highest average on the Sessional Examinations, with the provision that no student win it more than once.
- THE FRENCH GOVERNMENT BOOK PRIZES — These prizes, the gift of the French government through the consulate in Vancouver, are awarded annually for excellence in French. Selection to be made by the French department.
- FRENCH GOVERNMENT MEDAL — Awarded for excellence in French.
- GOVERNMENT OF THE FEDERAL REPUBLIC OF GERMANY BOOK PRIZES — These book prizes, the gift of the Federal Republic of Germany through the Consulate in Vancouver, are available for students in each undergraduate year showing proficiency in German studies.
- THE GROLIER LIMITED AWARD — The Grolier Curriculum Resource Library is a unique compilation of 49 volumes of reference including The New Book of Knowledge, Encyclopedia Canadiana, Book of Popular Science, Lands and Peoples, Standard Encyclopedic Dictionary and International Atlas, together with a book-case, and is offered by Grolier Limited as a prize to be awarded to an outstanding student graduate in the elementary teaching field. Selection will be made by the Senate Committee on Awards in June.
- THE GOVERNMENT OF ITALY BOOK PRIZES — These prizes, the gift of the Italian Government through the Consulate in Vancouver, are awarded annually for excellence in Italian. Selection will be made by the Senate Committee on Awards upon the recommendation of the Department of Hispanic and Italian Studies.
- *LADNER BOOK PRIZE FOR THE STUDY OF THE HISTORY OF BRITISH COLUMBIA — An annual book prize will be given to an outstanding student of the History of British Columbia. The winner will be selected by a committee recommended by the Department of History.
- THE OPEN DOOR SOCIETY BOOK PRIZE — Awarded annually to the student in the Third or Fourth year of the programme leading to the Bachelor of Arts with Major in Social Welfare who writes the best essay on the subject of placing children of interracial parentage in adoption.
- ROSE'S LIMITED JEWELERS WATCH — To be awarded annually to the leading student in the Faculty of Education at the University of Victoria.
- ROYAL UNITED SERVICES INSTITUTE OF VANCOUVER ISLAND BOOK PRIZES IN MILITARY HISTORY — Book prizes to the total value of \$50 will be awarded annually to the two students with the highest academic standing in each of the Canadian and European Military History courses. The two winners and the prizes will be selected by the Senate Committee on Awards upon the recommendation of the Professor teaching the two undergraduate military history courses involved.
- THE SPANISH GOVERNMENT BOOK PRIZE — Awarded to the best student in a senior Spanish course. Selection to be made by the Spanish Department.
- *THE ROBERT LORNE STANFIELD BOOK PRIZES IN POLITICAL SCIENCE — To be awarded annually to the top two students in each of Political Science 200 (Introduction to Political Science) and Political Science 318 (The Government of Canada).
- *Administered by the University of Victoria Foundation.

THE PRIZES OF THE AMBASSADOR OF SWITZERLAND TO CANADA —

These book prizes will be awarded to an outstanding student of French language and literature, to a student with high standing in German, and to an outstanding student in Italian.

***THE VICTORIA BRANCH OF NATIONAL COUNCIL OF JEWISH WOMEN BOOK PRIZE —** A prize will be given to the best student taking Sociology 335 (Minority and Ethnic Group Relations). The winner will be selected by the Department of Anthropology and Sociology.

***THE J. B. WOOD BOOK PRIZE IN RUSSIAN —** An annual book prize will be given to the top student in first year Russian who proposes to continue the study of Russian for at least one further year at the University. The winner and the prize will be selected by the Department of Slavonic and Oriental Studies.

GOVERNMENT OF THE SOCIALIST REPUBLIC OF YUGOSLAVIA BOOK PRIZE — An annual book prize will be awarded to the best student in Serbo-Croatian. Selection to be made by the Department of Slavonic and Oriental Studies.

*Administered by the University of Victoria Foundation.

SECTION 5

UNDERGRADUATE AWARDS FOR WHICH APPLICATION MUST BE MADE AT THE UNIVERSITY OF VICTORIA

These awards are open only to students who attended the University of Victoria in the Winter Session specified in this calendar. Application for these awards must be made before April 30, unless otherwise indicated, on forms available in the Registrar's Office.

THE BIRKS FAMILY FOUNDATION — The Birks Family Foundation has established a plan of annual contributions to the Student Aid Fund of recognized Canadian Universities for the creation of The Birks Family Foundation Bursaries.

The Bursaries are available to students recommended by the University for any course leading to a degree in Dentistry, Law, Library Science, Medicine, or Social Work, as well as any undergraduate course. The Bursaries may be renewed annually to a successful student until graduation. The number and amount of such awards may vary annually, depending upon the funds available for the purpose from The Foundation.

Candidates for the Bursaries must apply to the University on the University's General Application Form not later than April 30. Names of recipients will be announced in September.

The University will make the award of the Bursaries in consultation with The Foundation.

CANADIAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION AND RECREATION, INC (GREATER VICTORIA BRANCH) BURSARY — One hundred dollars (\$100) to be awarded annually to a student who has completed first year and is proceeding to either a B.Ed. degree with a Major in P.E. or to a B.P.E. degree. Applicants should further demonstrate a need for assistance, and show evidence of a particular interest and aptitude in P.E. and general proficiency in academic work. Selection of candidates is to be made by the C.A.H.P.E.R. Awards Committee on the basis of applications submitted to the Committee on Awards of the University before September 25 in each academic year.

THE CANADIAN BREWERIES (B.C. LIMITED) BURSARY — Six hundred dollars (\$600) to be awarded to a student who has completed first year and is registered in second year in biochemistry or bacteriology. Applicants should demonstrate a need for assistance, general proficiency in academic work, and show evidence of a particular interest and aptitude in biochemistry and bacteriology as it applies to fermentation industries. The candidate selected will be known as the 'Carling Scholar', and will continue to be sponsored by Carling Breweries during the third and fourth years of study provided the preceding criteria continue to be met. Selection of the candidate will be made by the Senate Committee on Awards upon recommendation of the Department of Bacteriology and Biochemistry. Applications must be submitted to the Committee on Awards before October 15th. (This bursary is awarded once every three years.) A new 'Carling Scholar' will not be chosen until the 1975-76 academic year.

THE CANADIAN UNION OF PUBLIC EMPLOYEES SCHOLARSHIPS — C.U.P.E. will make available the sum of five hundred dollars (\$500) to provide scholarships for two deserving and promising students at the University of Victoria who are continuing their studies here. The selection will be made on the basis of academic standing. Preference will be given to the sons or daughters of members of the C.U.P.E. In each case, the student must make application for these scholarships.

*Administered by the University of Victoria Foundation.

*LUCY AND MARGARET CORBET SCHOLARSHIP—Three hundred and twenty-five dollars (\$325) awarded annually to a student who has completed pre-medical studies at the University of Victoria and is proceeding to medical school in September. Selection of the winner will be made by the Senate Committee on Awards on the basis of sound academic achievement and demonstrated financial need. Candidates must provide written acceptance of their entry into an approved medical school.

THE ARTHUR S. DENNY SCHOLARSHIP—One hundred dollars (\$100) awarded annually by the Standard Furniture Co. to a deserving student in any year with a good academic record who is continuing studies at the University of Victoria. Preference will be given to students who indicate an interest in interior design, industrial design, or commerce as a career. Apply before April 30th to the Committee on Awards.

THE IBM-THOMAS J. WATSON MEMORIAL BURSARY PROGRAMME—IBM makes available \$1,000 annually to the University of Victoria and to other universities to provide undergraduate bursaries known as the IBM-THOMAS J. Watson Memorial Bursary Programme. The objective of the programme is to provide financial assistance to needy undergraduates in any year of any faculty who have good academic standing. These bursaries may be held concurrently with other awards, provided the University is satisfied that a need exists. Apply to the Committee on Awards, University of Victoria.

ROBERT H. B. KER SCHOLARSHIP—Two hundred dollars (\$200) awarded to a student in the first year who is proceeding to the second year either at the University of Victoria or a Canadian university. The applicant must have been a cadet (Sea, Army or Air) for at least two years during his last three years of high school. If there be no such applicant, the Committee on Awards may recommend for the award a student who has satisfactorily completed first or second year at the University of Victoria and is enrolled for service in one of the University training units. Application must be accompanied by a certificate from the Cadet unit concerned. Selection of the winner is to be made by the Senate Committee on Awards in consultation with the donor, Mr. R. H. B. Ker.

THE LADIES PHARMACEUTICAL AUXILIARY (VICTORIA) BURSARY—A Bursary of fifty dollars (\$50), available annually to a first year Vancouver Island Science student continuing studies at the University of Victoria, or the University of British Columbia. Preference will be given to a student planning to take Pharmacy as a profession. The award is to be made by the Committee on Awards of the University of Victoria.

*THE DR. DOUGLAS H. TAYLOR LEE MEMORIAL BURSARY—Three hundred dollars (\$300) awarded annually to a second or third year student planning a career in medicine with overriding preference given to a female student with first class honours standing. Selection of the recipient will be made by the Senate Committee on Awards, and the applicant must be studying in the general area of the basic medical sciences, on a pre-medicine programme.

THE BENNY NICHOLAS MEMORIAL AWARD—One hundred dollars (\$100) presented annually by the *Victoria Daily Times* to the student who submits the best piece of original writing, such as an essay, poem, play, article or other entry, to a selection committee appointed by the Committee on Awards. Entries may be submitted after January 1, but no later than March 31, to the Financial Aid Officer, Registrar's Office.

PACIFIC COAST FISHERMEN'S MUTUAL MARINE INSURANCE COMPANY BURSARY—A bursary of four hundred and fifty dollars (\$450) is offered by Pacific Coast Fishermen's Mutual Marine Insurance Company. Applicants must apply on the University Scholarship Form. The application must be accompanied by a letter describing the family fishing history in general terms and detailing types of fishing and boat names. Selection will be made by the Committee on Awards in consultation with officials of the Company.

*Administered by the University of Victoria Foundation.

THE HON. AND MRS. G. R. PEARKES PRIZE—Fifty dollars (\$50) to be awarded annually by the Hon. and Mrs. Pearkes to the student who has taken Service Training and has highest academic standing among those returning to the University of Victoria.

*THE OLIVER PRENTICE MEMORIAL—SAANICH ROTARY SCHOLARSHIP—One hundred and fifty dollars (\$150) awarded annually to a student of outstanding merit and promise and qualities of character indicating worthiness to hold the scholarship, who is planning a business career and is continuing his studies at a recognized university or is articled to a chartered accountant, or C.G.A. Selection of the student is to be made by the Committee on Awards of the University of Victoria. Applications must be submitted before April 30.

THE ROYAL CANADIAN LEGION (VICTORIA, B.C.) SIR PERCY LAKE MEMORIAL SCHOLARSHIP—Three hundred dollars (\$300) to be awarded annually to a worthy student on the recommendation of the Faculty. To be eligible a student must be a veteran of World War II or the Korean War, or a son or daughter of a veteran of World War II or World War I or the Korean War, or the wife or widow of a veteran of World War II or the Korean War, and must continue his or her studies.

UNITED NATIONS ASSOCIATION (VICTORIA BRANCH) SCHOLARSHIP—One hundred dollars (\$100) awarded annually to a student entering third or fourth year with a high academic standing who has actively contributed to the educational work of the United Nations Association. Selection will be made by the Senate Committee on Awards in consultation with the Executive of the United Nations Association (Victoria Branch).

*THE UNIVERSITY CHALLENGE SCHOLARSHIPS—One or more scholarships to a total of \$300 to be awarded annually from funds won on the CTV Television Programme "University Challenge" by Victoria teams. The fund was started in 1971 by a team consisting of Glen Paruk, Robert McDougall, Denis Johnston and Bruce Izard, coached by Professor Alfred Loft. The selection will be made by a joint Student-Faculty Committee under the Senate Committee on Awards on the basis of outstanding service by the candidate to the community and/or the University, coupled with proven high academic ability. Students may apply directly to the Committee or be nominated by a second party but the application must bear the nominee's signature and be accompanied by a letter from the nominator or nominee describing the nominee's qualifications to hold the scholarship.

THE VICTORIA MEDICAL SOCIETY BURSARY—Five hundred dollars (\$500) to be awarded annually to a second year student of outstanding merit and promise, who has a high general academic standing and qualities of character indicating worthiness to hold the bursary. Selection of the student will be made by the Senate Committee on Awards, and preference will be given to a needy student studying in the general area of the basic medical sciences, on a pre-medicine programme.

THE VICTORIA MEDICAL SOCIETY SCHOLARSHIP—Five hundred dollars (\$500) is available to a student who wishes to pursue a career in Medicine, has completed at least two years of study at the University of Victoria, and is proceeding to a medical school in Canada next September. Candidates must possess those qualities of character and mind which will lead to success as a medical practitioner, and must have demonstrated sound academic achievement, with at least Second Class standing. Financial need will also be considered. Candidates must provide written acceptance of their entry into an approved medical school. The award will be made in June by a committee consisting of representatives from Committee on Awards of the University and the Victoria Medical Society Scholarship Committee, and will be paid through the Bursar of the medical school involved. The successful candidate will be notified in June. The award will be forfeited if the candidate has not entered medical school by January 1975, at the latest. Application forms are available from the Registrar's Office and must be returned to the Financial Aid Officer before April 30.

*Administered by the University of Victoria Foundation.

VICTORIA MUNICIPAL CHAPTER IMPERIAL ORDER OF THE DAUGHTERS OF THE EMPIRE SCHOLARSHIP — One hundred dollars (\$100) awarded annually to a first year student who is the child of a veteran of World War I or World War II. The recipient of the Scholarship must be recommended for general proficiency and worth by the Faculty, and must continue university work into the second year.

VICTORIA REAL ESTATE BOARD BURSARY — Two hundred and fifty dollars (\$250) awarded annually to a student registered at the University of Victoria who is the son or daughter of any Active Member of The Victoria Real Estate Board or any Member of The Victoria Society of Real Estate Salesmen. Selection of the recipient will be made by the Senate Committee on Awards.

SECTION 6

UNDERGRADUATE AWARDS ADMINISTERED BY THE SCHOLARSHIP AND BURSARY COMMITTEE, ROOM 207, BUCHANAN BUILDING, UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER 8, B.C.

Students who submit applications for scholarships or bursaries to the University of British Columbia and who are competing on the basis of attendance at the University of Victoria, must forward an official transcript of their academic record at the University of Victoria, preferably accompanying the application.

1. Scholarships which must be applied for by May 15.

THE INTERNATIONAL LONGSHOREMEN'S AND WAREHOUSEMEN'S UNION UNDERGRADUATE SCHOLARSHIPS—Four scholarships of \$250 each are offered to members, sons and daughters of members, in good standing, of the International Longshoremen's and Warehousemen's Union. They are open to students in attendance at the University of British Columbia, the University of Victoria, or Simon Fraser University who will continue in a full programme of studies in the next session in an undergraduate faculty. These scholarships will normally be awarded to the candidates with highest standing as determined by the results of the Final Sessional Examinations conducted in April by the named universities. Candidates must notify the Scholarship and Bursary Committee, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. by May 1 of their intention of competing. The donors reserve the right to withhold awards if the academic standing of candidates is not sufficiently high or to re-award scholarships if winners receive other scholarships of substantial value.

THE DR. H. B. KING MEMORIAL SCHOLARSHIP IN EDUCATION—This scholarship of \$300 has been established by the B.C. Association of District Superintendents and Inspectors of Schools as a memorial to Dr. H. B. King, who from 1939 to 1945 was Chief Inspector of Schools for British Columbia. For many years prior to 1939 Dr. King also served the Province of British Columbia with distinction and devotion as a teacher and principal, and as a technical adviser with the Department of Education. This scholarship will be awarded to a student who is proceeding to a degree or certificate in the teaching field and is taking a full course in the **second year** at any recognized Faculty of Education in a B.C. university. The award will be made on the basis of academic standing, personal qualities, interest and participation in school and community affairs, aptitude for teaching, and other factors. Applications, on forms obtainable from the Scholarship Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C., must be submitted to the University not later than May 15.

2. Bursaries which must be applied for by July 15.

BRITISH COLUMBIA FOREST PRODUCTS LIMITED BURSARIES—Bursaries to a total of \$8,000, each with a maximum value of \$300, are offered by British Columbia Forest Products Limited to legal dependents of employees who, by June 30 of the year in which the award is made, have or will have served with the Company for at least one year and whose earnings are limited (see Company brochure for details). They are open to students beginning or continuing studies in the fall in a full undergraduate programme of studies at the University of British Columbia, the University of Victoria or Simon Fraser University. Awards will be made to students selected on the basis of their academic standing and need for financial assistance. No award will normally be made, however, to a candidate who obtains an overall average of less than C+ or who is required to write supplements to obtain clear standing in a full year's work. Winners of the Company's Entrance Scholarships will not be permitted to receive a Company Bursary in the same year. All candidates must apply on the Special Bursary form, which may be obtained from the Scholarship and Bursary Committee, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. This application must be received by the University of British Columbia not later than July 15 and must

contain the necessary details of family service with the Company. An official transcript of academic record at the institution most recently attended must be forwarded as soon as possible.

THE GRAND LODGE MASONIC BURSARIES — The Grand Lodge of Antient Free and Accepted Masons of British Columbia annually offers bursaries in the range of \$200 to \$500 each with preference to the sons, daughters, and legal wards of active members of Masonic Lodges in British Columbia or of deceased members who, at the time of death, were active members of these Lodges. The purpose of these bursaries is to give assistance to students who, without financial aid, would find it impossible or difficult to continue their education. Selection of winners will be made by the University of British Columbia from applicants with satisfactory academic standing who are entering the first or second year of undergraduate studies at the University of British Columbia or the University of Victoria in a full programme leading to a degree in any field. First preference will be given to applicants entering university from Grade XII. In order to be considered, a candidate must obtain from the office of the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C., a Special Bursary Application form. The completed application must be received at the University of British Columbia not later than July 15. If the applicant is the son, daughter, or legal ward of a member of the Lodge the application must be accompanied by a letter from the Secretary of the Lodge giving the name and address and details of the lodge with which the applicant's immediate family is or has been associated. Since a special committee considers these awards, a student applying for other bursaries must submit a separate application for them.

THE GLADYS LEDINGHAM AWARD — A cash award of \$75, gift of the Victoria and District Parent-Teacher Council, is offered to students who have graduated from the University of Victoria, the University of British Columbia or Simon Fraser University. It will be awarded to a student selected by the School of Librarianship, University of British Columbia, who has been accepted for the Bachelor of Library Science degree. The winner will be selected on the basis of need and scholastic ability. Applications, on forms obtainable from the Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C., should be made on the University Bursary Form by July 15.

THE VICTORIA HOME ECONOMICS AND DIETETIC ASSOCIATION BURSARY — This bursary of \$200, the gift of the Victoria Home Economics and Dietetic Association, will be awarded annually to a woman student whose home is in Victoria or some other centre on Vancouver Island, and who is entering the second, third or fourth year in the Department of Home Economics at the University of British Columbia. The award will be made on the basis of financial need to a student of good academic standing.

UNDERGRADUATE AWARDS ADMINISTERED BY OTHER INSTITUTIONS AND ORGANIZATIONS

BRITISH COLUMBIA ASSOCIATION FOR THE MENTALLY RETARDED BURSARIES — Bursaries in various amounts are offered by the British Columbia Association for the Mentally Retarded to students in education, medicine, nursing, psychology, and social work in graduate or undergraduate programmes who: (a) are undertaking a full year, part-time or summer school course at a recognized University or College, and (b) intend to pursue studies related to mental retardation. Awards will be made on the basis of combined academic standing and need. Closing dates for submission of application forms are July 15 and December 15. Forms of application may be obtained from: British Columbia Association for the Mentally Retarded, Room 221, 119 West Pender Street, Vancouver 3, B.C.

THE BAY SERVICE AWARD — A Service Award offered by the Bay (Victoria) is open in competition to students completing Second Year Arts or first year Commerce and proceeding to a higher year. Preference will be given to students inter-

ested in Department Store Careers. To be eligible for this award applicants must qualify in respect to academic standing, ability, aptitude, and personality, and should be considering possible employment with the Bay on graduation. Under the terms of the award tuition fees will be paid and employment with the Bay guaranteed during the following Summer vacation. One of these plans will be followed: (a) For a Second Year Arts student tuition will be paid for third year towards successful completion of the B.A. degree at the University of Victoria; (b) For a student completing first year Commerce, tuition fees will be paid for second year Commerce at U.B.C. Subject to satisfactory performance, a winner will, on graduation, be given an opportunity to apply for an executive career with the Company. Interested students should apply to the Personnel Manager, The Bay, not later than March 15. Selection will be made by a representative of the Bay.

ELIZABETH BENTLEY EASTERN STAR SCHOLARSHIPS — The Order of the Eastern Star offers annually a number of scholarships to students who have completed at least two years of University courses. Scholarships are awarded on the basis of need, marks and difficulty of courses. Persons eligible are members, wives, husbands, fathers, mothers, sisters, brothers, sons, daughters, grandchildren or step-children of members of the Order of the Eastern Star of B.C. Applications should be sent to the local Eastern Star secretary by July 15.

FEDERATION OF FRANCO-COLUMBIANS SCHOLARSHIP — An annual scholarship of \$1,000, awarded by the Federation of Franco-Columbians to a candidate wishing to undertake a year of study in a French-language university, preferably in Canada. Priority will be given to a student registered at a British Columbia University, having completed the equivalent of two full years of university study, having sufficient knowledge of French to study profitably at a French language university, intending to teach in the Province of British Columbia. Applications should be addressed to the Secretary of the Scholarship Committee, Federation of Franco-Columbians, 1013-B Brunette, Maillardville, B.C. The application must include: a letter in which the candidate outlines his reasons for applying, a copy of his academic transcript, two letters of recommendation to be sent directly to the Secretary of the Scholarship Committee. Applications must be received by March 1.

THE INDEPENDENT ORDER OF ODD FELLOWS BURSARIES — Six bursaries of three hundred dollars (\$300) each, provided by the Grand Lodge of British Columbia, I.O.O.F., the Grand Encampment, and the Rebekah Assembly are available annually for students in any year of any faculty. The awards will be made by a joint committee consisting of two representatives from each of the Grand Bodies. All applicants must have direct connection with one or more branches of the Order, through parents, grandparents, or close relatives. Special consideration will be given to applicants with financial need. Full details of the awards and application forms may be obtained from the Secretary of any Odd Fellows Lodge or Rebekah Lodge by May 1 so that they may be received by the Committee not later than May 15. All applications must be sponsored by an Odd Fellows Lodge, Rebekah Lodge, or Encampment. The above Committee will award annually an additional bursary of \$200 to a student in a recognized theological college of university status. This bursary will be known as the Dr. A. M. Sanford Memorial Bursary. Applicants will follow the same procedure as for all other I.O.O.F. bursaries, except that family connections with the I.O.O.F. will not be required.

LEONARD FOUNDATION SCHOLARSHIPS — This National Foundation awards each year a number of scholarships for which students of the University of Victoria are eligible. Application forms, available from the Awards Office, University of Victoria, should be forwarded to the Honorary Secretary of the Foundation, c/o Canada Permanent Trust Co., 320 Bay Street, Toronto 105, not later than March 31 of each year. Whenever possible these applications should be filed in February. The awards are made at the annual meeting of the General Committee on the fourth Friday in May.

THE MARY MARCHI MEMORIAL BURSARY — This bursary of \$350, a gift of the Kootenay Society for Handicapped Children, will be awarded annually to a deserving undergraduate student, who is presently studying in the field of special education or mental retardation, with the intention of continuing studies in that field. All applications from the University of Victoria will be screened by a special

committee at the University of Victoria. The final decision will be made by a special bursary committee appointed by the Kootenay Society for Handicapped Children. Applications should be submitted to the Committee on Awards, Registrar's Office, University of Victoria by April 30.

MUNGO MARTIN MEMORIAL AWARDS — will be made annually from the proceeds of the Mungo Martin Memorial Fund, raised by public subscription under the sponsorship of the B.C. Indian Arts Society of Victoria, B.C. These awards commemorate Mungo Martin, the late Kwakiutl chief, artist, philosopher and carver, who did so much to revive appreciation of Indian art and traditions of the Northwest Coast. The Fund is administered by a Board of Trustees appointed by the said Society for this purpose. The Board of Trustees is the sole authority adjudicating awards and its decisions are final. Awards are to be made in any amount or amounts in any year within the limitations of available funds at the sole discretion of the Trustees. (Awards are normally expected to be from \$50 to \$300.) The purpose of the awards is to assist people of Indian racial background to further their education, vocational training, skills and competence in arts, handicrafts, and other worthy endeavours. Particular emphasis is made to those who seek to do creative work to further the artistic heritage of the Indian peoples, whether it be in painting, carving, music and dance, folklore, or language. While age and circumstances of qualifying candidates may vary considerably, preference will be given to young people.

Candidates for awards must be of Indian racial background and must be domiciled in the Province of British Columbia at the time of application. The recipient of an award may apply for a further award in a subsequent year.

Applications for awards should be made on forms provided by the Board of Trustees and may be mailed at any time for consideration to the following addresses: The Board of Trustees, Mungo Martin Memorial Awards Fund, c/o Mrs. H. Esselmont, Chairman, 3190 Rutledge Street, Victoria, B.C. Board meetings will be held at the call of the Chair early in the year and late in the summer.

THE MERRILL C. ROBINSON BURSARY FUND — The Merrill C. Robinson Bursary Fund is sponsored by the Canadian National Institute for the Blind to honour the long service to blind people given by the late Merrill C. Robinson, MBE., LL.D. This fund will be administered by a special committee of the CNIB Divisional Board, and will be used to assist blind students attending any university or college within the B.C.-Yukon Division other than the University of British Columbia. Awards will be made only to those who show evidence of ability and promise. Applications are to be directed to the Bursary Committee, Canadian National Institute for the Blind, British Columbia Division, 350 East 36th Avenue, Vancouver 15, B.C., before July 31.

NAVAL OFFICERS' ASSOCIATION OF BRITISH COLUMBIA BURSARY LOANS — Several bursary loans not exceeding \$300 each are offered to students beginning or continuing studies at the University of British Columbia, or the University of Victoria, with the intention either of following a permanent career in the Royal Canadian Navy or following a course of study which, coupled with such person's past associations, will qualify such person as potential personnel for the Royal Canadian Navy in times of national emergency. Preference will be given to present or former members of a cadet force, of a reserve force or of the permanent force, or the sons or daughters of any Commissioned Officer, Warrant Officer, Rating or man who has served or is now serving in the British Commonwealth naval forces or Merchant navies. Awards will be made on the basis of combined academic standing and need. These loans are repayable without interest within eighteen months after graduation. If by the due date the student has joined the permanent force, the loan may be cancelled in its entirety; if he has joined the reserve force 50% of it may be cancelled. Applications should be filed not later than October 1 with the Naval Officers' Association of British Columbia, Box 823, Station A, Vancouver, B.C.

NAVAL OFFICERS' ASSOCIATION OF BRITISH COLUMBIA SCHOLARSHIPS — Several scholarships in amounts up to \$250 each, provided by the Naval Officers' Association of British Columbia, are offered to students beginning or continuing studies at the University of British Columbia or the University of Victoria with the intention either of following a permanent career in the Royal

Canadian Navy or following a course of study which, coupled with such person's past association, will qualify such person as potential personnel for the Royal Canadian Navy in times of national emergency. Preference will be given to present or former member of a cadet force, of a reserve force or of the permanent force, or the sons or daughters of any Commissioned Officer, Warrant Officer, Rating or man who has served or is now serving in the British Commonwealth naval forces or Merchant navies. Awards will be made on the basis of all-round proficiency in the combination of academic studies and present or former interest in or association with a cadet force, reserve force or permanent force. Application should be filed not later than October 15 with the Naval Officers' Association of British Columbia, Box 823, Station A, Vancouver, B.C. Winners of these awards are not precluded from accepting other awards which they may be offered.

PREMIER'S ATHLETIC AWARDS/BRITISH COLUMBIA ATHLETIC AWARDS — Five Premier's Athletic Awards, each for one thousand dollars (\$1,000) and 25 British Columbia Athletic Awards, each for five hundred dollars (\$500), awarded annually to those British Columbia students who apply and who meet the qualifications set out below.

Applicants must show evidence of athletic ability and performance, leadership and character, and scholastic achievement. Students are eligible to apply for these awards if they are residents of British Columbia and are pursuing an educational programme at any designated post-secondary educational institution in the Province of British Columbia.

Applicants must write a personal letter of application to the Selection Committee, in which they should outline their athletic and scholastic achievements. They must ask the head of the athletic department of the post-secondary education institution and one other prominent sports leader in the community to send a confidential supporting letter direct to the Selection Committee. The athletic director should attach a statement of athletic achievement and other leadership participation.

Applications will be reviewed by a Selection Committee appointed by the British Columbia Physical Fitness and Amateur Sports Fund Committee. The top five applicants selected by the Selection Committee will be awarded the Premier's Athletic Awards of \$1,000 each, and the next 25 applicants selected in order of merit will be awarded the B.C. Athletic Awards of \$500 each. The Athletic Awards will be made available to successful applicants after proof that he or she is attending the institution concerned provided they are not in receipt of a similar or other major award of \$500 or more. All applications should be postmarked *not later* than June 1, 1974 and should be addressed to Chairman, British Columbia Physical Fitness and Amateur Sports Fund Committee, Parliament Buildings, Victoria, British Columbia.

THE RHODES SCHOLARSHIPS — The Rhodes Trustees offer annually for award in the Province of British Columbia one Rhodes Scholarship of the value of approximately £1,550 per annum. This stipend consists of a direct payment to the University and the Scholar's College of approved fees plus a maintenance allowance of £900 per annum paid directly to the Scholar. The sum provided should be sufficient to enable a Scholar to meet necessary expenses for term-time and vacations but those who can afford to supplement it to a modest extent from their own resources are advised to do so. The cost of the voyage to and from England must be borne by the Scholar.

The Scholarship is tenable ordinarily for two years at Oxford University. A third year (at Oxford or elsewhere abroad) may be authorized in proper cases.

A candidate must be a male Canadian citizen or British subject and have been ordinarily resident in Canada for at least five years by October 1, 1974. A Rhodes Scholarship is forfeited by marriage after election, or during a scholar's first year of residence. Thereafter a Rhodes Scholar may marry and retain his stipend if he is able to give appropriate assurance of support and accommodation for his wife.

A candidate must be at least 19 but under 25 years of age on October 1, 1975.

He must have completed two years of university study by October 1, 1975.

A candidate may compete in a province in which he is eligible under either (a) or (b) below:

- (a) The province in which he is ordinarily resident. If he is ordinarily resident in the Northwest Territories he may compete in a province in which he is eligible under (b) or, if there is no such province, in Nova Scotia or New Brunswick.
- (b) The province in which his university study has taken place, provided that if he is ordinarily resident outside Newfoundland he may not compete in Newfoundland.

In that section of the will in which he defined the general type of scholar he desired, Mr. Rhodes mentioned four groups of qualities, the first two of which he considered most important:

1. Literary and scholastic attainments;
2. Qualities of manhood, truth, courage, devotion to duty, sympathy, kindness, unselfishness, and fellowship;
3. Exhibition of moral force of character and of instincts to lead and to take an interest in his fellows;
4. Physical vigour, as shown by fondness for and success in outdoor sports.

Some definite quality of distinction, whether in intellect or character, or both, is the most important requirement for a Rhodes Scholarship, and it is upon this that Committees will insist. Success in being elected to office in student organizations may or may not be evidence of leadership in the true sense of the word. Mr. Rhodes evidently regarded leadership as consisting in moral courage and an interest in one's fellow men quite as much as in the more aggressive qualities. Physical vigour is an essential qualification for a Rhodes Scholarship, but athletic prowess is of less importance than the moral qualities developed in playing outdoor games. Financial need does not give a special claim to a Scholarship. A candidate for a Scholarship is required to make application by October 25, 1974, and if elected, to go to Oxford in October 1975. Further information concerning the Scholarship and the opportunities for study at Oxford University may be obtained from Sholto Heberton, 1830 - 505 Burrard Street, Vancouver 1, B.C.

ROTARY FOUNDATION — The newest educational activity of the Rotary Foundation, Undergraduate Scholarships are awarded to outstanding young men and women for one academic year of undergraduate study abroad.

A candidate for a 1975-76 Scholarship must be: unmarried; between the ages of 18 and 24 inclusive as of July 1, 1974; and have completed two years of undergraduate university-level work but not have attained the bachelor's degree or equivalent at the time that he begins his Scholarship year. He must be a citizen of the country in which his permanent residence and sponsoring Rotary club are located.

In this and all other programmes of the Rotary Foundation, a Rotarian, a dependent of a Rotarian, a child, stepchild, grandchild, brother or sister of a Rotarian, or any spouse thereof, is ineligible for an award.

An Undergraduate Scholarship covers the cost of round trip transportation between the Scholar's home and place of study, registration, tuition, laboratory and other school fees, necessary books and educational supplies, meals and lodging, incidental living costs, limited educational travel during the Scholarship year and, in specified instances, intensive language training in the country of study prior to the beginning of the regular academic year.

Awards may be made for study in any field, but not for independent or unsupervised research. Undergraduate Scholarships are awarded for one academic year of study in another country. They are not granted to students to continue studies already begun in a country. It is not expected or intended that an Undergraduate Scholarship will be used as part of a longer period of study abroad. In many cases it is not possible to obtain academic credit for work done during the Scholarship year. Each candidate should ascertain for himself, in advance, whether it will be possible to receive academic credit for courses taken or work completed during the year abroad.

Application for an Undergraduate Scholarship must be made through a Rotary club in the district in which the applicant's permanent residence is located or the district in which is located the school at which he is studying at the time of his application. The sponsoring Rotary club will provide the necessary application forms and explanatory literature. Rotary clubs may obtain this material from their district governor or the secretariat of Rotary International in December of each year. Application forms must be completed and returned to the Rotary Club by March 15, 1974.

THE SONS OF NORWAY SCHOLARSHIPS — District Lodge No. 7 — Sons of Norway offer three scholarships of \$300 each to students attending a university in British Columbia and proceeding to the second final or the final year of a full programme leading to a degree. To be eligible a candidate must be a member of a British Columbia Sons of Norway Lodge. Application must be by letter, addressed to the Sons of Norway Scholarship Committee, c/o: The Scholarship and Bursary Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. The letter of application must (1) indicate the applicant's eligibility with respect to membership above, together with a receipt from the secretary of the Lodge concerned; (2) give details of the applicant's course of study, reason for applying, and future plans for a career; (3) be accompanied by official transcripts of the applicant's high school and university records. The applicant must also arrange for one or more confidential testimonials to be forwarded preferably from faculty members acquainted with the applicant's character and personal qualities, interest, and ability as a student. Applications must be submitted by August 1. Successful applicants will be chosen by a special Committee.

UNIVERSITY WOMEN'S CLUB OF VICTORIA DIAMOND JUBILEE BURSARY — A bursary of \$100 will be awarded annually by the University Women's Club of Victoria, to a mature woman with a satisfactory academic standing, who, without financial aid, would find it difficult to resume her studies. The applicant should be returning to full-time or part-time studies at the University of Victoria or Camosun. A letter of application, with two references, should include a brief explanation of how the proposed courses will improve the applicant's qualifications for employment. Applications should be filed not later than August 20 with the Financial Aid Officer, University of Victoria, Victoria, B.C.

VANCOUVER FOUNDATION — Educational aid is offered through the Vancouver Foundation to a limited number of deserving students at institutions of higher learning in British Columbia. Applications will be judged on the basis of (a) academic standing; (b) contributions to the university, school or community; (c) financial need which cannot be satisfied through the usual avenues. Further information may be obtained by enquiring at the Registrar's Office of the University of Victoria. Inquiries must be made before March 31.

THE WESTMINSTER REGIMENT ASSOCIATION SCHOLARSHIP — Two scholarships of \$250 each, the gift of the Westminster Regiment Association, will be awarded annually to two worthy and deserving students who are continuing their formal education beyond secondary school in recognized institutions of higher learning in any place within Canada or outside Canada. One scholarship may also be awarded to a person pursuing a non-academic study at a vocational school or similar institution. To be eligible, applicants must be direct descendants, male or female, of a member of the Westminster Regiment Association, or a member of the Westminster Regiment CA(M) or one of those battalions which the Westminster Regiment perpetuates, i.e., the 47th, 104th or 131st. The applicant may be in his or her final year of secondary school or any year of post secondary study, and may be resident in any place within Canada or outside Canada. The basis of the award will be academic standing in previous studies and need of financial assistance. The Application for Scholarship Form is obtainable from the Scholarship Committee, The Westminster Regiment Association, Box 854, New Westminster, B.C. The cut-off date for applications is June 30.

THE WOMAN'S INSTITUTE MEMORIAL SCHOLARSHIP IN HOME ECONOMICS — A scholarship of \$250 will be awarded annually by the Woman's Institute of B.C. It is available to the daughter of a member of the Institute. The member must have been in good standing for at least three years. Preference is given to a student registering at the University of British Columbia toward a degree in Home Economics. Application by letter from the Institute to the Secretary-Treasurer, Provincial Board, B.C. Woman's Institute, 545 Superior Street, Victoria, B.C., must be received before July 15.

THE WOMAN'S INSTITUTE MEMORIAL SCHOLARSHIP IN AGRICULTURE — A scholarship of \$250 will be awarded annually by the Woman's Institute of B.C. It is available to the son or daughter of a member of the Institute. The member must have been in good standing for at least three years. Preference is given to a student registering at the University of British Columbia toward a degree in Agriculture. Application by letter from the Institute to the Secretary-Treasurer, Provincial Board, B.C. Woman's Institute, 545 Superior Street, Victoria, B.C., must be received before July 15.

SECTION 7

AWARDS FOR GRADUATE STUDY

AWARDS ADMINISTERED BY THE UNIVERSITY OF VICTORIA

UNIVERSITY OF VICTORIA FELLOWSHIPS:

University of Victoria Fellowships of \$2,500, September through April, may be awarded by the Faculty of Graduate Studies to students of high academic standing registered full time as candidates or provisional candidates for a degree in the Faculty. Upon recommendation of the Department concerned, these Fellowships will be accompanied by a Summer Supplement of \$1,000, May through August, inclusive, for students working full time on their studies during that period. No duties are attached to these Fellowships and Supplements, which will be paid in equal instalments. Application should be made at the time of application for admission. (The deadline for completed Fellowship applications is February 22. Successful candidates will be notified at the end of March.)

NOTE 1: Fellowship holders may not normally hold another major award, i.e. more than \$600.

NOTE 2: Fellowship holders, at their discretion, may accept paid employment within the University, provided that this does not exceed 100 hours in the September to April session.

UNIVERSITY OF VICTORIA GRADUATE SCHOLARSHIPS:

University of Victoria Graduate Scholarships of \$1,000, September through April, may be awarded by the Faculty of Graduate Studies to students of good academic standing registered full time as candidates or provisional candidates for a degree in the Faculty of Graduate Studies. Application should be made at the time of application for admission. No duties are attached to these Scholarships. (The deadline for completed Scholarship applications is February 22. Successful candidates will be notified at the end of March.) Depending on the funds available, Summer Scholarships of \$500 each will be awarded, by competition, to existing Scholarship holders who are working full time in their studies during the Summer.

NOTE 1: The holder of a major award, e.g. a National Research Council Scholarship, Canada Council Award, etc., is not normally eligible to hold a University of Victoria Graduate Scholarship.

NOTE 2: Scholarship holders may accept paid employment of not more than 300 hours September through April.

Confirmation of Awards

Within one month after the receipt of the notice of awards students must confirm to the Office of the Dean of Graduate Studies that they intend to accept the awards. If this is not done, then the awards will be forfeited and reassigned.

ASSISTANTSHIPS:

Graduate students may make application through the Department or Faculty concerned, for paid employment as Academic Assistant, Research Assistant, Scientific Assistant, Laboratory Instructor. Such employment is negotiated through the Department concerned, not through the Faculty of Graduate Studies, at rates of pay determined by the University. No full-time graduate student may be gainfully employed, however, for more than 300 hours, September through April.

THE LEON J. LADNER B.C. HISTORY SCHOLARSHIP—Three hundred dollars (\$300) awarded annually for the best graduate thesis on the History of British Columbia.

AWARDS ADMINISTERED BY OTHER ORGANIZATIONS—There are many other Graduate Awards, not administered by the University of Victoria. Notices of these are posted in the Registrar's Office and in the Faculty of Graduate Studies Office. Information may also be obtained from the catalogue "Awards For Graduate Study and Research" which can be found in the Reference Division of the Library

under REF HA743 81-541. Since these awards are subject to constant change, prospective applicants are advised to obtain further details from the Registrar's Office.

QUEEN ELIZABETH II BRITISH COLUMBIA CENTENNIAL SCHOLARSHIP

— Seven thousand dollars (\$7,000) awarded annually to one student commencing in the fall of that year. Normally the scholarship will be awarded in the amount of \$3,500 each year for two successive years of study, but the Committee may, in exceptional circumstances, award the full sum of \$7,000 for one year of study. In exceptional cases in which the scholarship winner finds it necessary to undertake a third year of post-graduate study to complete his/her training, he/she may apply during the second year of such studies for an additional scholarship of \$3,500.

This scholarship was formed to commemorate the visit of Queen Elizabeth II to British Columbia in May 1971 during the Centennial celebrations. The purpose of this scholarship is to enable selected British Columbians, who have graduated from a public university of the Province, to take further studies at approved universities (or equivalent institutions of higher learning) in the United Kingdom. The scholarship is administered through the Office of the Deputy Provincial Secretary by a special committee, headed by the Premier as Honorary Chairman. The special committee consists of representatives of the Provincial Secretary's office, the Department of Education, and each of the three public universities of the Province.

The scholarship will be awarded each year on a competitive basis to a graduate of Simon Fraser University, the University of British Columbia, or the University of Victoria

- (a) whose final three years of academic courses leading to his or her first undergraduate degree were all taken in British Columbia;
- (b) whose ordinary private domicile, home, or residence is, in the opinion of the Selection Committee, in British Columbia;
- (c) who is a Canadian citizen; and
- (d) who is not more than 25 years of age in the year in which he or she makes application, although the Selection Committee reserves the right to make exceptions to this rule.

Applicants should be persons of unusual worth and promise. The Selection Committee will make its selection on the basis of academic achievement, demonstrated aptitudes, personal qualities and character, interest and participation in university and community affairs, and proposed programmes of study. All decisions made by the Selection Committee are final.

A successful candidate may not accept other grants or awards unless approved by the Selection Committee. In accepting the award, a candidate assumes the responsibility of following the programme outlined in his or her application. The Selection Committee does not assume any responsibility for the admission or acceptance of a candidate by the institution where he or she proposes to study. If admission is not obtained, the award may be withdrawn. At the conclusion of the period of tenure on the scholarship, the holder is requested to send a brief report on his or her progress to the Selection Committee.

The scholarship will be paid in equal amounts at intervals of six months. The first payment will be available prior to commencement of study on the scholarship. All inquiries, applications, and all documents pertaining to this scholarship must be forwarded directly to the Deputy Provincial Secretary, Legislative Buildings, Victoria, British Columbia. Applications for study commencing in the fall of 1974 must be submitted by March 1, 1974. Documents and applications, which cannot be returned, become the property of the Selection Committee.

1. Each applicant must arrange for official transcripts of his or her post-secondary academic record to be forwarded directly to the Deputy Provincial Secretary's Office from the registrars of the institutions concerned.
2. Each applicant must arrange for at least three confidential testimonials to be forwarded from persons who have a good knowledge of the applicant's ability, interests, achievements, character, and academic worth.
3. Each applicant must complete the official application form and forward it, along with a letter which includes

- (a) a brief outline of the applicant's interest and participation in college and community affairs, and his or her special achievements and hobbies;
- (b) an outline of the programme of studies to be undertaken by the applicant if awarded the scholarship, including the name of the institution to be attended;
- (c) an outline of the applicant's future plans for a career;
- (d) additional information which the applicant considers to be in the interests of his or her application.

SECTION 8

LOAN FUNDS

Inquiries relating to the following loan funds, and all applications for loans, should be addressed to the Financial Aid Officer, Registrar's Office, unless the description indicates otherwise.

Applications for Canada Student Loans should be made in advance of the opening of the session. Although loans in limited amounts may also be made during the session, provided funds are available, students should not begin attendance on the assumption that they will be eligible for or receive assistance. In particular, they must meet the requirements specified in the terms of the loan fund involved.

University Loans are not normally made to students until they have registered at the University for a full winter session.

Students are also advised that adult guarantors satisfactory to the Financial Aid Officer are required for loans administered by the University.

B.C. Youth Foundation Loans — Loans are available to young persons up to 30 years of age. The foundation lends money to pay fees and/or monthly amounts to assist with living expenses. Applicants should contact the Financial Aid Officer, Registrar's Office, for further information.

The Government of Canada Student Loans Plan — This plan introduced by the Federal Government is to assist students who, without loan assistance, would be unable to pursue full-time post-secondary studies at a specified educational institution. The maximum loan for an academic year is \$1,400. Total loans to any student cannot exceed \$9,800. A loan of up to \$700 may be authorized for a single semester which is part of a longer programme of study. Borrowers under the plan are required to repay principal and interest by regular monthly instalments. Payments commence six months after the borrower ceases to be a full time student at a specified educational institution. No payments are made while the borrower is a full time student nor for six months thereafter. Interest during this period is paid by the Federal Government on behalf of the student. Need for loan assistance is determined by Provincial Loan Authorities in accordance with administrative criteria established for use throughout Canada. A parental contribution table is an integral part of the criteria and is applied in all cases where the student has not established financial independence as defined in The Canada Student Loans Plan. Students are expected to save a substantial amount of any income from summer or other employment. Lack of funds due to unessential spending may not be considered as unavoidable need for loan assistance. Students who apply for loans should consider carefully the repayment obligation being undertaken. A student in need of a Canada Student Loan must, as a first step, obtain an application form from the institution he plans to attend. The application must be completed carefully and accurately by the student, and where applicable, by his parents. Applications require declarations by both the student and his parent that all information provided is correct. When the application is completed it must be submitted to the Financial Aid Officer of the British Columbia educational institution to be attended. Students planning to attend institutions outside of British Columbia will send applications directly to: Student Affairs Branch, Division of Post-Secondary Services, Department of Education, Parliament Buildings, Victoria, B.C.

P.E.O. Sisterhood Educational Loan Fund — Loans are available to women students in any year of a University course, and may be requested at any time. Maximum amount of a loan to any student is \$1800. Fourth year or graduate students may be granted loans and draw the maximum loan in one year. Undergraduates may apply for and be granted the maximum loan of \$1800 for two or more years of study but may draw only \$900 of the loan in one academic year. Freshmen must complete one term's work satisfactorily before making application. Loans are made for periods up to five years. A loan of \$500 may be granted for a summer course. Interest at the rate of 4% is to be paid annually, and the student is expected to begin payment of the principal as soon as she is out of University and employed. Information may be obtained from Mrs. Allan Cox, 2847 Dunlevy Street, Victoria, B.C.

The University of Victoria Rotating Loan Fund — The University of Victoria has a small loan fund to assist students requiring financial assistance. This fund is intended to meet emergency situations, and not tuition costs. The loans are interest free and are repayable during the summer following the academic year. Adult guarantors are required to co-sign all short-term loans.

Contributions to the University loan fund have been made through the generosity of the following donors:

The Peter Cubis Memorial Fund (Donated by the University of Victoria Alma Mater Society)	\$9,000
The University Challenge Team Loan Fund	3,500
The University of Victoria President's Fund	7,500
The University of Victoria Alumni Association	5,000
The Milva Reid Revolving Loan Fund	500
The University Extension Association Centennial Loan Fund	400
The John C. Lort Revolving Loan Fund	250

The donors and the University share the hope that students who have had help from this fund will themselves help others as their means may allow, either by contributing to this fund or by establishing similar funds.

For further information regarding interviews and application forms, please contact the Financial Aid Officer, Registrar's Office.

SCHOLARSHIPS AND OTHER AWARDS 1972-73

*Throughout this list, an asterisk indicates that the award or scholarship is administered by the University of Victoria Foundation.

Adelphi Book Shop Prize	Judith Nanne Jones
*Kathleen Agnew Memorial Scholarship	
\$250	Barbara Joan Mayfield
\$100	Janice Elaine Cooper
Aldyen Hamber I.O.D.E. Entrance Scholarship of \$250	Dianne Joyce Pendray
Alliance Française Scholarships of \$100 each	Rosanna Lozupone Piero Antonio Rovinelli
Austrian Government Book Prizes	Jeri Alice-Marie Gile Peggy Howse Ian Charles Stuart
Bapco Paint Limited Scholarship of \$100	Robert John Carruthers
Beaver Books Shop Prize	Susan Louise Hamilton
Harold Beckwith Memorial Book Prize in Music	Donna Doris-Anne Zapf
Beta Sigma Phi Sorority City Council Bursaries of \$100 each	Debra Marita Joy Kirchner Janet Elizabeth Selman
*Dr. Norman Bethune Memorial Award of \$50	Norman William Bingham
Birks Family Foundation Bursaries of \$100 each	Allan Ronald Hatch Barbara Winnifred Illsey Brenda Lee Mitchell Valerie Paull
Birks Gold Watch	James Alan Brander
Blaney's Travel Service Limited Award of \$200	William Rodney Garner Hopkins
*British Columbia 1958 Centennial Scholarship of \$600	James Alan Brander
British Columbia Historical Association Book Prizes	Richard Coates McCandless Robert Paul McDougall
British Columbia Hydro and Power Authority Scholarships of \$250 each	Kirk James Johnstone Manfred John Maier Veit Hans Schnorr Von Carolsfeld
British Columbia Psychological Association Gold Medal	Virginia Louise Edwards
British Columbia Telephone Company Scholarship of \$100	Ann Margaret Fischer
Dr. Maxwell A. Cameron Memorial Medals and Prizes	Shirley Ann Forrester George Fraser
Camosun Gyro Club Bursary of \$150	Dorothy Gertrude Awmack
Canadian Association for Health, Physical Education and Recreation, Inc. (Greater Victoria Branch) Bursary of \$100	Thomas Charles Renton
Canadian Breweries (B.C. Limited) Bursary of \$600	David Ross Burdge
Canadian Daughters' League, Assembly No. 5 — Gertrude M. Ralston Memorial Bursary of \$100	Robert Brian Griffin
Canadian Institute of International Affairs (Victoria Branch) Book Prize	John Lindsay Thompson
Canadian Union of Public Employees Entrance Scholarships of \$200 each	Bruce Alan Faddegon Ella Mary Susie Harms Evelyn Anne Harrison Michael Dennis Smart Mike Alan Wilson
Canadian Union of Public Employees Scholarships of \$250 each	Christopher Graham McMuldroy Ruth Marion Richardson
*G. Clifford Carl Memorial Bursary of \$300	John James Gobolos

John Wesley and Emily E. Church Memorial Scholarship of \$100	Verity Elizabeth Williams
Clearihue Bursary of \$300	Claudia Alexandra Kowalchuk
Comitas Club Scholarship of \$50	Ethel Yvonne Busche
*Mary Hannah Cooper Scholarship of \$350	Lesley Anne Lee
*Edgar Ferrar Corbet Scholarship of \$250	Dorothy Mary Monica Wolff
*Lucy and Margaret Corbet Scholarship of \$325	Charles Ian Waters
*Matthew Cowan Annual Scholarship of \$150	Andrew Alexander Leir
*Crestview-Chelsea Theatre Award of \$100	Kevin John Carter
*Michael Dane Memorial Book Prize	Susan Elaine Read
*Adeline Julienne Deloume Memorial Scholarships	
\$200 each	Connie Florence Simpson Patrick George Willoughby
\$100 each	William Edwin Cochrane Robert Michael Donofrio Katharine Pamela Estelle Odgers Piero Antonio Rovinelli Fiona Margaret St. Clair Catherine Lynn Tarves Rhonda Karen Warlow Dorothy Mary Monica Wolff
\$50 each	Susan Jean Blockberger Susan Louise Hamilton Colleen Margaret Jolliffe Debra Marita Joy Kirchner Wendy Anne Lewis Sonja Ruth Lukaitis Katherine Claire Wright
Arthur S. Denny Scholarship of \$100	Barry Craig Duller
*Denton Memorial Book Prize	Kathryn Jean Kerr
*Gwen Downes Memorial Book Prize	David MacKenzie Parry
T. Eaton Company Limited Scholarship of \$400	Douglas Fred Walls
Percy H. Elliott Memorial Scholarship of \$130	John Alexander Cecil Swainson
*H. O. English Scholarship of \$250	Susan Marlene Allingham
Faculty Women's Club Prize of \$100	Ann Margaret Fischer
Francis Gold Wrist Watch	Ann Margaret Fischer
French Government Book Prizes	Piero Antonio Rovinelli Patrick George Willoughby
French Government Medal	Connie Florence Simpson
Frank and Margaret Gibbs Scholarships of \$300 each	Trevor William Dawson Elmer Keith Howard William James Milne Russell Ormond Redman William Allan Squires
Government of the Federal Republic of Germany Book Prizes,	William Robert Caljouw Judith Gwenn Dixon Wendy Anne Lewis
Government of Italy Book Prizes	John David Alton Carol Susan Reid Severin Santa Serena Santarossa
Governor-General's Medal	Kenneth George Davis
Grand Post of the Native Sons of B.C. — Bruce McKelvie Scholarship of \$250	Gerhard Walter Brauer
Grolier Limited Award	Alan Jack Boyden
Harbord Insurance Limited Entrance Scholarship of \$500	Douglas James Preston
Harbord Scholarship in Music of \$500	Mary Alison Copland

- *George Hamilton Harman Memorial Scholarships of \$200 each .. David John Hatter
David Andrew Metzak
- *William A. and Frances E. Harper Scholarship of \$100 Ross John Munro
- IBM — Thomas J. Watson Memorial Bursaries of \$100 each Wendellyn Joy Berke
Ethel Yvonne Busche
Bruce Christopher Ernest Duncan
Lily Marica Flanjak
Thomas Andrew German
Pamela Margaret Hamer
James Ross Horncastle
Miranda May-Ling Kwok
Gertrude Friedericke Rey
Lucian Donald Sitwell
- Don Ingham Memorial Scholarship of \$200 Timothy Paul Lester
- Italian Assistance Centre Bursary of \$250 Mile Jovanovic
- Robert H. B. Ker Scholarship of \$200 Catriona Frances Embleton
- Denis King Memorial Scholarship in Music of \$300 Pierann Elizabeth Moon
- *Freeman F. King Scholarship of \$250 Heather Elizabeth Butler
- Kiwanis Scholarship of \$250 Marshall Lester McCall
- *Hazel T. Knox Memorial Bursary of \$200 Steven Gergel
- *Hazel T. Knox Memorial Scholarship of \$300 Susan Sheila Dier
- Labatt Breweries of British Columbia Limited Entrance Scholarship
of \$500 Duncan Lewis Bryce Scobie
- Ladies Pharmaceutical Auxiliary (Victoria) Bursary of \$50 Wendellyn Joy Berke
- *Ladner Book Prize for the Study of the History of
British Columbia Curtis Hugh Doherty
- Leon J. Ladner B.C. History Scholarships of \$100 each Robert Paul McDougall
Diane Louise Matters
- Lady Laurier Club Scholarship of \$100 Douglas Kirk Poje
- *Dr. Douglas H. Taylor Lee Memorial Bursary of \$300 Jennifer Elizabeth Lort
- *Sara and Jean MacDonald Entrance Bursaries of \$300 each Krishna Beadall
Janette Harriet Fraser
Michelle Anne Gagnier
Louise Frances Ann John
- *J. Beattie MacLean Scholarship of \$100 Catherine Lynn Tarves
- *Martlet Chapter, I.O.D.E., Cuthbert Holmes English Honours
Essay Prize Patricia Jane Robinson
- *Martlet Chapter, I.O.D.E., Prize for Scholarship in Art
of \$75 Ann Elizabeth Mathers
- Angelina Norris Bursary of \$50 Piero Antonio Rovinelli
- Oak Bay Business and Professional Women's Club Bursary
of \$100 Rosemary Kathleen Suter
- Ocean Construction Supplies Limited Scholarship of \$100 Louise Arlene Bayliss
- Chapter N, P.E.O. Memorial Prize of \$100 Susan Louise Hamilton
- The Honourable and Mrs. G. R. Pearkes Prize of \$50 Barry Gilbert Saladana
- *B. W. Pearse Science Scholarships of \$200 each
- Biology Linda Jean Foubister
- Chemistry Thomas Murray Fyles
- *Alan Pratt Memorial Scholarship of \$100 Owen Reginald Underhill
- *Oliver Prentice Memorial — Douglas Rotary Scholarship of \$150, Robert Wayne John
President's Entrance Scholarships
- \$500 each Kenneth Rowan Birch
Michael Joseph Collins
Brian Edward Maki
Brian Russell Watts
Joanne Cornelia Zwinkels

\$400 each	Raymond Lewis Badowski John Edward Bernard Donna Marie Nutini
\$300 each	Nicholas John Carr James Forbes Howie
\$250 each	Lynne Anderson Bain Dianne Joyce Pendray
\$200	Janette Harriet Fraser
President's Scholarships	
\$250 each	Doris Louise Brown William Rodney Garner Hopkins Jennifer Anne Kehl
\$200 each	Meredythe Frances Broadway Michael Wallace William Frey Laurie Jean King Marshall Lester McCall Gwendolyn Joyce McKevitt Russell Ormond Redman Susan Elizabeth Robbins
\$150 each	Sylvia Beatrice Alers John David Alton Richard Charles Baker Murray William Butt Mark William Campbell Maryrose Carbery Clark David Robert Boyse Dendy Laurence Ian Fawcett Linda Jean Foubister John Hedley Fowler Brenda Kath'een Getz Judith Lila Hill Sylvia Louise Jarvis Judith Nanne Jones Douglas Robert Jull Debra Marita Joy Kirchner Catherine Anne Langdale Anne-Marie Laursen Mary Diane Lindeburgh Donna Marie Maxwell Linford Arthur Fraser McColl William Donald MacRae Agnes Miu Ying Mar Frank Frederick Ross Mayhood Timothy John Miles William James Milne Marian Garland Nelson Robert Aloysius Nijman James Arthur O'Connor Donald Earl Odegaard Katharine Pamela Estelle Odgers Ellen Sylvia Ogilvie Glen Alexander Paruk Sheila Patricia Helen Punshon John Edward Riendl Colleen Dawn Robbins William Grover Roland Piero Antonio Rovinelli Barry Gilbert Saladana John Clifford Saliken Jana Darlene Slane Gary Ralph Sollis Anne Margaret Stearn Douglas James Steele

John Albert Thiessen
 Gary Robert Toyota
 Donna Gaye Wade
 Mark Brunsdon Walmsley
 Joan Thelma Watson
 Diana Elizabeth Noel Whistler
 Donna Lorraine Whittingham
 Norman John Wiens

\$100 each Elizabeth Louise Anstey
 Jillian Ann Bunn Banks
 David John Barlow
 Robert Alan Barlow
 David John Barney
 Anne Marie Beduz
 Susan Jean Blockberger
 Valerie Gail Brennan
 Fredric Erskine Bronson
 John Stewart Buchanan
 William Edwin Cochrane
 Anne Louise Crose
 Diane Irene Crowther
 Norman James Davies
 James Paulin Tilton Davis
 John Douglas English
 Kathleen Faber
 Andrea Mary Falk
 Stacy Anne Ferstel
 Katherine Jean Francis
 Thomas Andrew German
 Rolf Peter Gi'stein
 Marlene Ethyl Goley
 Sharron Lennea Gray
 Kathryn Elizabeth Guthrie
 Pamela Margaret Hamer
 Elmer Keith Howard
 Kirk James Johnstone
 Janet Teresa Jolley
 Colleen Margaret Joliffe
 Brian Douglas Kell
 Lois Lorraine Kilpatrick
 Karen Cecilia Kramer
 Kathy Lynne Kromm
 Paul John Kuhn
 Miranda May-Ling Kwok
 Matthew Alan Lester
 Kathi Marie MacKinnon
 Ronald Gordon McOrmond
 Manfred John Maier
 Louisa Pauline Maniago
 David Andrew Metzak
 Karin Meuser
 John Terrence Mullen
 Tonita Murray
 Sandra Eloise Murtack
 Beverley Grace Noton
 Robert Lawrence Orme
 John Bryan Phillips
 Gemma Frances Reid
 Elinor Maria Richter
 Dianne Alison Ripley
 Joanne Marjorie Sam
 Veit Hans Schnorr Von Carolsfeld
 Kerry Richard Seale
 Janet Elizabeth Selman

	John Hunter Simpson
	Christine McKee Stevenson
	Loreen Alexandra Strutt
	Alexander Ronald James Stuart
	William David Aitken Thomas
	David George Thompson
	Judith Anne Thomson
	Susan Mary Thomson
	Susan Joan Turner
	Owen Reginald Underhill
	Nadine Lucille Velay
	Christopher Russell Vickers
	Lily Wallace
	Michele Mary Waters
	Katherine Claire Wright
	Susan Jean Wright
\$50 each	Robert Edgar Barlow
	Ethel Yvonne Busche
	Kevin John Carter
	Garry Raymond Charlton
	Constance Mae Collier
	Susan Sheila Dier
	Robert Michael Donofrio
	Donald Edward Drummond
	Bruce Christopher Ernest Duncan
	Lily Marica Flanjak
	Robert Brian Griffin
	James Ross Horncastle
	Andrew Alexander Leir
	Wendy Anne Lewis
	Amanda Frances Linnell
	Susan Jean Lyons
	Paul Barnabas Seale
	Lucian Donald Sitwell
	William Allan Squires
	Ian Charles Stuart
	Catherine Lynn Tarves
	Rhonda Karen Warlow
Professional Men's Garden Club of Victoria Scholarship of \$100	Brenda Susan Darcy Storey
Read Jones Christoffersen Limited, Consulting Engineers Entrance Scholarship of \$200	James Bradley Brandon
Rithet Consolidated Limited Bursary of \$100	Joan Thelma Watson
Rose's Limited Jewelers Watch	Lois Leanne Pepper Mason
Rotary Club of Saanich (B.C.) Scholarship of \$100	Jennifer Anne Kehl
Rotary Club of Victoria Scholarship of \$250	Susan Louise Hamilton
Royal Canadian Legion (Victoria) Sir Percy Lake Memorial Scholarship of \$400	Ronald Gordon McOrmond
*Royal Institution and Frank Eaton Memorial Scholarship of \$100	Fiona Margaret St. Clair
Royal United Services Institute of Vancouver Island Book Prizes in Military History	Doug'las Kirk Poje George MacKenzie Urquhart
Madame Sanderson Memorial Scholarship of \$50	Fiona Margaret St. Clair
*Edward J. Savannah Memorial Scholarship of \$250	Christopher Lawrence Brown
Seaspan International Limited Memorial Scholarship of \$150	Ann Margaret Fischer
*Nora Lugin Shaw Memorial Scholarship of \$75	Carl Heinz Richard Karabez
A. W. Sheret Scholarship of \$150	Garry Raymond Charlton
Andrew Sheret Limited Scholarship of \$150	Donald Edward Drummond

*Dorothy Somerset Scholarship in Theatre of \$150	Barry Craig Duller
Spanish Government Book Prize	Janice Elaine Cooper
*Robert Lorne Stanfield Book Prizes in Political Science	
For Political Science 200	Rupert Eugen Downing John Lindsay Thomson
For Political Science 318	Gary Ralph Sollis William Gustav Spech
Prizes of the Ambassador of Switzerland to Canada	
In French	Fiona Margaret St. Clair
In German	Helmut Berndt
In Italian	John Morley Linfield
*Taylor Education Bursaries of \$300 each	Ruth Chudley Patricia Ann Whcater Woolston
*Taylor Scholarship in Music of \$450	Jocelyn Lorraine Abbott
United Nations Association (Victoria Branch) Scholarship of \$100	Gerhard Walter Brauer
*University Challenge Scholarship of \$300	Lois Elizabeth Flavelle
University Extension Association of Victoria Scholarships of \$100 each,	Kathleen Faber William Gustav Spech
University of Victoria Alumni Awards of \$500 each	Cynthia Wilma Brand George Franz Brandstetter David Ross Burdge Clinton Randy Giles
University of Victoria Faculty Association Scholarship of \$200,	Ann Margaret Fischer
University of Victoria Graduate Studies Awards	
R. M. Petrie Memorial Fellowship of \$3,500	Josef Jerry Cherniawsky
Fellowships — \$2,500 or \$3,500 each	Jane Ann Pearce Baldwin Judith Ann Blackwell David Robert Burrows Daniel Patrick Carrol Adolf Ceska Yong-Lan Chow Barbara Veronica Colebrook Marni Elizabeth Davis Ricardo Bigi de Aquino Shirley Ann Forrester Ardis Elizabeth Rose Hart Margaretha Sophia Maria Hoek Barbara Louise Hubbard Peter William James Terry Lee Janssen Sheena Marilyn Lee James Norman MacGregor Kcily Alexandra Mary McRae David Joseph Madden Ralph Maddess Steven Louis Palumbo David MacKenzie Parry Pavle Premovic Robert Merrill Spncler Jean Kathleen Surks Somyong Visaisouk John Windsor Peter Charles Winn George Harry Zakarian
Scholarships — \$1,000 each	Carl Anscrcello Victoria Francs Barnsley Wolfgang Dieter Binder James Burwell Brown David Gary Bulmer

Gary Lee Bunney
 Lynn Alison Chisholm
 Robert William Coombs
 Robert Keith Cox
 Peter Mark Cumberbirch
 Brock James Eayrs
 Karl Egner
 Stephen Jay Fader
 Andrew Imre Feher
 Donald Anthony Fernandez
 Helen Rae Griffin
 Jean Margaret Groat
 K. Hemamala Gusinghe
 Mary-Ann Keilty
 Masood Alam Khan
 Chung-Duck Ko
 Eric Stephen Lee
 Johnnye Lynn Lewis
 Roderick Howard Luftus
 Lana Sue Long
 Elizabeth Dickerman Lovatt
 Ronald Lovatt
 Stephen David Lustig
 John Walker MacGilchrist
 Mary Donna MacIntyre
 Gary Richard Martin
 Gregory Matthews
 Margaret Campbell Mitchell
 Irene Mok
 David Leonard Munk
 Wilfred Nienaber
 James Robert Ogmundson
 Andrew Pakula
 Diane Iona Persson-Aarnoudse
 Thomas William Pulton
 Alexander David Rattray
 Jeffrey Lawrence Reynolds
 Farough Rassouljian Safayeni
 Christopher Shirley
 Christianna Stachelrodt
 Tony Kar-cheung Tse
 Robert Whitlam
 Daphne Eiry Williams
 Carl Fook Chow Wong

University Women's Club Scholarship of \$200 Dianne Alison Ripley
 Vancouver Island Real Estate Board Entrance Bursary of \$500 Diane Leslie Russell
 Victoria Central Lions Club — Dr. G. C. Carl Award of \$150 Dianne Alison Ripley
 Victoria Central Lions Club — Millard H. Mooney Fine Arts
 Bursary of \$150 Ernestine Paula Estraletta Wyatt
 Victoria Council, United Commercial Travellers of America
 Scholarship of \$100 Catherine Lynn Tarves
 Victoria Medical Society Bursary of \$500 Michael Bruce Cowen
 Victoria Medical Society Scholarship of \$500 Gerald Benjamin Doersam
 Victoria Municipal Chapter, I.O.D.E., Scholarship for General
 Proficiency of \$100 Brenda Jane George
 Victoria Municipal Chapter, I.O.D.E., Scholarship in Canadian
 History of \$100 Gary Ralph Sollis
 Victoria Natural History Society Scholarship of \$120 Trevor William Dawson
 Victoria Real Estate Board Bursary of \$250 Susan Jean Lyons
 *Victoria Unit of National Council of Jewish Women Book Prize Flora Maria Baker

Visual Arts Bursaries of \$100 each	Kenneth Charles Meisterman Joanne Marjorie Sam Stephanie Elizabeth Smith
*R. T. Wallace Scholarship of \$600	Bruce Edward Turkington
*Weber Memorial Bursary of \$125	William Allan Squires
Weston Bakeries, Limited, Scholarship of \$250	Ian Fraser MacLean
*J. B. Wood Book Prize in Russian	Susan Elaine Read
Woods Trust Scholarships of \$250 each	Werner Erich Wilhelm Arendt A'an Frank Cook Dorothy Mae Fernandez David John Kyle Ethan Laukkanen Richard Adrian Alexander Lyal Paul Barnabas Seale Kirk Allen Sundby
Woodward Stores, Limited, Scholarship of \$250	Amanda Frances Linnell
Mae E. Wootton Memorial Scholarship of \$100	Ian Charles Stuart
Xi Nu Chapter, Beta Sigma Phi Sorority, Annual Bursary of \$25	Susan Sheila Dier
Yorkshire Trust Company Scholarship of \$175	Robert Edgar Barlow
Rosalind W. Young Scholarship of \$200	Constance Mae Collier

Government of British Columbia Scholarships

The University honours 737 students presently enrolled who have received a government scholarship.

UNIVERSITY OF VICTORIA

VISITOR

The Honourable Walter Stewart Owen, Q.C., LL.D., Lieutenant-Governor of the Province of British Columbia.

CHANCELLOR

Robert T. D. Wallace, B.A., M.A., LL.D.

PRESIDENT

Hugh E. Farquhar, M.A., Ph.D.

VICE-PRESIDENT

Stephen A. Jennings, B.A., M.A., Ph.D.

OFFICERS OF CONVOCATION

Robert T. D. Wallace, B.A., M.A., LL.D., Chancellor (Chairman, ex officio).

Ron J. P. Ferry, B.A., Registrar (Secretary, ex officio).

BOARD OF GOVERNORS

Ex Officio Members:

Robert T. D. Wallace, B.A., M.A., LL.D., Chancellor.

Hugh E. Farquhar, M.A., Ph.D., President.

Members Appointed by the Lieutenant-Governor in Council:

S. Joseph Cunliffe, B.A.Sc., P.Eng. (Chairman). Term expires November 18, 1974.

E. Harvey Richardson, B.A., M.A., Ph.D. Term expires March 1, 1977.

Trudy Friesen, B.A., M.A., Ph.D. Term expires February 12, 1976.

Lawrence Ryan. Term expires February 12, 1976.

Ronald Lou-Poy, B.Comm., LL.B. Term expires November 1, 1975.

Gilbert F. Auchinleck, B.A.Sc., P.Eng. (Vice-Chairman). Term expires June 30, 1974.

Members Elected by the Senate:

C. Hilary Butler, B.A., M.A. Term expires December 31, 1975.

Kenneth R. Thornton, B.Sc., M.B.Ch.B., C.R.(C)P.S., L.M.C.C., F.C.A.P. Term expires December 31, 1975.

Kenneth O. Wright, B.A., M.A., Ph.D. Term expires December 31, 1975.

Secretary:

James E. Currie, B.Comm., M.B.A.

SENATE

Ex Officio Members:

Robert T. D. Wallace, B.A., M.A., LL.D., Chancellor.

Hugh E. Farquhar, M.A., Ph.D., President (Chairman).

Jean-Paul Vinay, L. ès L., D.E.S., M.A., Agrégé de l'Université de France, Officier d'Académie, F.R.S.C., Dean of the Faculty of Arts and Science.

K. George Pedersen, B.A., M.A., Ph.D., Dean of the Faculty of Education.

Peter L. Smith, B.A., M.A., Ph.D., Dean of the Faculty of Fine Arts.

Stephen A. Jennings, B.A., M.A., Ph.D., Dean of the Faculty of Graduate Studies.

F. Murray Fraser, B.A., LL.B., LL.M., Dean of the Faculty of Law.

Dean W. Halliwell, M.A., B.L.S., University Librarian.

Members Appointed by the Senate:

- John M. Dewey, B.Sc., Ph.D., Dean of Academic Affairs. (Ex officio.)
J. Trevor Matthews, B.A., M.B.A., Dean of Administration. (Ex officio.)
Samuel L. Macey, B.A., Ph.D., F.I.W.S.P. Term expires June 30, 1974 (Faculties).

Members Elected by the Faculties:

- Olivier M. Abrioux, B. ès L., L. ès L., D.E.S., Ph.D. (Arts and Science). Term expires June 30, 1975.
Robert D. Armstrong, B.Ed., B.A., M.Ed., Ed.D. (Education). Term expires June 30, 1975.
Harvey M. Miller, B.S., M.Ed., M.A., Ph.D. (Fine Arts). Term expires June 30, 1975.
Walter M. Barss, B.A., M.A., Ph.D. (Graduate Studies). Term expires June 30, 1976.

Members Elected Jointly by the Faculties:

- Pablo Cabañas, Lic., D.F.L. Term expires June 30, 1976.
William R. Gordon, B.A., M.A., Ph.D. Term expires June 30, 1976.
D. Elizabeth Kennedy, B.A., M.A. Term expires June 30, 1976.
Alexander D. Kirk, B.Sc., Ph.D. Term expires June 30, 1976.
John Woods, B.A., M.A., Ph.D. Term expires June 30, 1976.
Michael J. Ashwood-Smith, B.Sc., M.Sc., Ph.D. Term expires June 30, 1975.
Gerhart B. Friedmann, B.Sc., M.A., Ph.D. Term expires June 30, 1975.
Izzud-Din Pal, B.A., M.A., M.Sc. Econ., Ph.D. Term expires June 30, 1975.
John P. Dobereiner, B.Ed., M.F.A. Term expires June 30, 1974.
Sydney W. Jackman, B.S., M.A., A.M., Ph.D., F.I.S.A., F.R.Hist.S. Term expires June 30, 1974.
Kenneth W. Rankin, B.A., M.A., Ph.D. Term expires June 30, 1974.
Reginald H. Roy, C.D., B.A., M.A., Ph.D., F.R.Hist.S. Term expires June 30, 1974.

Members Elected by the Alma Mater Society:

- Russell J. Getz. Term expires September 30, 1974.
Patrick B. Skillings, B.A. Term expires September 30, 1974.

Member Elected by the Graduate Students' Society:

- Sheena Lee, M.A. Term expires September 30, 1974.

Members Elected by the Convocation:

- C. Hilary Butler, B.A., M.A. Term expires December 31, 1975.
David H. Dunsmuir, B.A., M.A. Term expires December 31, 1975.
Charles Gregory, M.B., Ch.B., Cert. in Psych. R.C.P.S. Term expires December 31, 1975.
Kenneth R. Thornton, B.Sc., M.B.Ch.B., C.R.C.P.S.(C), L.M.C.C., F.C.A.P. Term expires December 31, 1975.
S. Ann Van der Voort, B.A., B.L.S., A.R.C.T., L.R.S.M. Term expires December 31, 1975.
Kenneth O. Wright, B.A., M.A., Ph.D. Term expires December 31, 1975.

Members Appointed by the Lieutenant-Governor in Council:

- Bernard C. Gillie, B.A., B.Ed. Term expires March 1, 1977.
Margaret R. Vickers. Term expires March 1, 1977.
Mrs. M. R. Corry, B.Sc. Term expires February 12, 1976.
Dorothy Gislason, B.Sc., B.S.W. Term expires February 12, 1976.

Secretary of Senate (ex officio):

- Ron J. P. Ferry, B.A., Registrar.

FACULTY COUNCIL

Ex-Officio Members:

- Hugh E. Farquhar, M.A., Ph.D., President (Chairman).
Jean-Paul Vinay, L. ès L., D.E.S., M.A., Agrégé de l'Université de France, Officier d'Académie, F.R.S.C., Dean of the Faculty of Arts and Science.
K. George Pedersen, B.A., M.A., Ph.D., Dean of the Faculty of Education.
Peter L. Smith, B.A., M.A., Ph.D., Dean of the Faculty of Fine Arts.
Stephen A. Jennings, B.A., M.A., Ph.D., Dean of the Faculty of Graduate Studies.
F. Murray Fraser, B.A., LL.B., LL.M., Dean of the Faculty of Law.
John M. Dewey, B.Sc., Ph.D., Dean of Academic Affairs.
J. Trevor Matthews, B.A., M.B.A., Dean of Administration.
Dean W. Halliwell, M.A., B.L.S., University Librarian.
Ron J. P. Ferry, B.A., Registrar (Secretary).

Members Elected Jointly by the Faculties:

Arts

- Bruce E. Wallis, B.A., M.A., Ph.D. Term expires November 1975.
Donald L. Senese, A.B., Ph.D. Term expires November 1974.

Science

- Keith R. Dixon, B.A., Ph.D. Term expires November 1974.

Education

- Rey A. Carr, B.A., M.A., Ph.D. Term expires November 1975.
Marion A. Small, B.Ed., M.Ed. Term expires November 1974.

Fine Arts

- John F. Krich, A.B., M.F.A. Term expires November 1975.

SENATE REPRESENTATIVES TO THE ACADEMIC BOARD FOR HIGHER EDUCATION IN BRITISH COLUMBIA

John M. Dewey, B.Sc., Ph.D. Term expires June 30, 1974.

Roy E. L. Watson, M.A., Ph.D. Term expires November 30, 1975.

UNIVERSITY REPRESENTATIVES TO THE JOINT BOARD OF TEACHER EDUCATION

The President, or his nominee.

Nominee, Dr. Norma I. Mickelson, B.Ed., M.A., Ph.D.

The Dean of the Faculty of Education, or his nominee.

Representative of the Senate: Sydney W. Jackman, B.S., M.A., A.M., Ph.D., F.S.A., F.R.Hist.S. Term expires October 31, 1975.

UNIVERSITY OF VICTORIA FOUNDATION

Members:

S. J. Cunliffe, B.Sc., P.Eng. (Chairman).

Hugh E. Farquhar, M.A., Ph.D.

James R. Genge, M.A.

J. V. Harbord.

Philip G. Ney, M.A., M.D., F.R.C.P.(C).

J. C. Scott-Harston, Q.C., B.A., M.A.

Robert T. D. Wallace, B.A., M.A., LL.D.

R. R. Wilde.

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Joseph B. Clearihue, M.C., E.D., Q.C., B.A., M.A., B.C.L., LL.D.

Robert W. Phipps.

Robert W. McQueen, B.Comm., C.A. (Treasurer).

Hon. Mr. Justice Robert A. Wootton.

Floyd A. Fairclough (Director of Development Fund).

James E. Currie, B.Comm., M.B.A. (Secretary).

CHANCELLOR EMERITUS

Joseph B. Clearihue, M.C., E.D., Q.C., B.A., M.A., B.C.L., LL.D.

DEAN EMERITUS

Henry C. Gilliland, M.A., Dean Emeritus of Education.

PROFESSORS EMERITI

Roger J. Bishop, B.A., B.L.S., M.A., Professor Emeritus of English.
George A. Brand, B.A., M.Ed., Professor Emeritus of Education.
C. Vyner Brooke, B.A., A.M., Ph.D., Professor Emeritus of Spanish.
Lewis J. Clark, B.A., M.Sc., Ph.D., Professor Emeritus of Chemistry.
Jeffree A. Cunningham, B.A., LL.D., Professor Emeritus of Zoology.
G. Reid Elliott, B.A., Ph.D., Professor Emeritus of Economics.
Albion Wilfrid Johns, B.A., Professor Emeritus of Education.
Frederick Kriegel, 2nd State Cert., Vienna, Professor Emeritus of German.
Donald J. MacLaurin, B.A.Sc., M.S., Ph.D., Professor Emeritus of Chemistry.
J. Beattie MacLean, B.A., M.A., Ph.D., Professor Emeritus of German.
Sydney G. Pettit, M.A., Professor Emeritus of History.
Bérangère B. Steel, L. ès L., Professor Emerita of French.
Robert T. D. Wallace, M.A., Professor Emeritus of Mathematics.

HONORARY DEGREE RECIPIENTS

*Charles Johnstone Armstrong, May 1961.
*Rosalind W. Young, May 1961.
Jeffree Aikin Cunningham, May 1964.
Walter Charles Koerner, November 1964.
W. Kaye Lamb, November 1964.
H. Rocke Robertson, November 1964.
Louis-Albert Vachon, November 1964.
Bristow Guy Ballard, May 1965.
Thomas Rice Henn, May 1965.
Robert Wellington Mayhew, May 1965.
George Randolph Pearkes, May 1965.
Joseph Badenock Clearihue, May 1966.
Leon Johnson Ladner, May 1966.
Phyllis Gregory Ross, May 1966.
William Andrew Cecil Bennett, May 1966.
Donald Grant Creighton, May 1967.
Norman Alexander Robertson, May 1967.
Joseph Roberts Smallwood, May 1967.
Cyril J. Berkeley, May 1968.
George Forrester Davidson, May 1968.
William Bruce Hutchison, May 1968.
Constance Blytha Pearkes, May 1968.
George Woodcock, May 1968.
C. Northrop Frye, May 1969.
Sir Edmund Hillary, May 1969.
His Royal Highness The Prince Philip Duke of Edinburgh, November 1969.
*Under the former affiliation with the University of British Columbia.

Christopher Tunnard, May 1970.

George Charles Clutesi, May 1971.

Richard Biggerstaff Wilson, May 1971.

Jean Sutherland Boggs, May 1972.

Sir Hugh Springer, May 1972.

Robert Thomas Duff Wallace, May 1972.

Margaret Jean Clay, May 1973.

George Max Antony Grube, May 1973.

Jack Leonard Shadbolt, May 1973.

UNIVERSITY OFFICERS

OFFICE OF THE PRESIDENT

Farquhar, Hugh E., M.A. (*Brit. Col.*), Ph.D. (*Alta.*), President.

Cameron, Catherine D., Secretary to the President.

Currie, James E., B.Comm. (*Brit. Col.*), M.B.A. (*McMaster*), Executive Assistant to the President.

Fairclough, Floyd A., Director of Development Fund.

Institutional Analysis:

Matthews, J. Trevor, B.A. (*Brit. Col.*), M.B.A. (*Stanford*), Director.

McGowan, Kenrick I., B.A. (*U. of Vic.*), Senior Analyst.

Rylander, Wendell F., B.A. (*U. of Vic.*), Analyst/Statistician.

University Relations:

Cownden, Maurice N., B.J. (*Carleton*), Director.

OFFICE OF THE VICE-PRESIDENT

Jennings, Stephen A., B.A., M.A., Ph.D. (*Tor.*), Vice-President.

Continuing Education:

Devlin, Laurence E., B.Ed. (*U. of Vic.*), M.A., Ph.D. (*Chicago*), Director.

Collins, Faith B., B.S. (*Mount St. Vincent*), B.A., M.Ed. (*Seattle*), Programme Officer.

Counselling Centre:

Beach, Horace D., B.A. (*Sask.*), M.A. (*Oxon*), Ph.D. (*McGill*), Director.

Cowan, Phyllis L., B.A. (*Brit. Col.*), M.A. (*Columbia*), M.Ed. (*Tor.*), Counsellor.

Martin, Raymond S., C.D., B.A. (*Queen's*), Ph.D. (*Tor.*), Director, Reading and Study Skills.

Murphy, Mary J., B.A., B.Ped., B.Ed., M.Ed. (*Man.*), Counsellor.

Social Sciences Research Centre:

Roy, Reginald H., C.D., B.A., M.A. (*Brit. Col.*), Ph.D. (*Wash.*), F.R.Hist.S., Acting Chairman.

Lort, John C., Bibliographer.

Summer Session:

Mason, Geoffrey P., M.A. (*Brit. Col.*), Ph.D. (*Wash. St.*), Director.

Senior, Janet, Assistant to the Director.

OFFICE OF THE DEAN OF ACADEMIC AFFAIRS

Dewey, John M., B.Sc., Ph.D. (*London*), Dean.

ACCOUNTING OFFICE

McQueen, Robert W., B.Comm. (*Brit. Col.*), C.A., Bursar.

Brand, Margot M., C.O.A., Assistant Accountant.

Davis, Dennis G., C.A., Chief Accountant.

Levey, John R., C.A., Accountant.

Underhill, J. Gerald, C.D., B.Comm. (*Brit. Col.*), C.A., Accountant.

OFFICE OF THE DEAN OF ADMINISTRATION

Matthews, J. Trevor, B.A. (*Brit. Col.*), M.B.A. (*Stanford*), Dean.

Darling, Peter A., B.A.Sc., M.A.Sc. (*Brit. Col.*), Senior Management Consultant.

Athletics:

Elcock, Michael, B.A. (*U. of Vic.*), Director (pro tem).

Buildings and Grounds:

Apps, George E., B.A.Sc. (*Brit. Col.*), P.Eng., Director.

Lock, Albert A., Assistant Director, Maintenance.

Morton, Arthur C., Superintendent of Building Trades.

Murfitt, Rex, Superintendent of Grounds.

O'Connor, Thomas W., Superintendent of Traffic and Security.

Whitfield, Albert J., Administrative Assistant.

Yoxall, F. Clive, Superintendent of Janitor Services.

Campus Planning:

Campbell, Ian W., B.Sc. (*Alta.*), P.Eng., Director.

Smith, Martin D., B.Sc. (*Brit. Col.*), Design Engineer. Seconded from Buildings and Grounds.

Development Office:

Fairclough, Floyd A., Director.

General University Services:

Sawchuck, Theodore J., B.Ed. (*Alta.*), M.Sc. (*St. Coll. of Wash.*), M.Ed. (*Alta.*), Director.

Baker, Shirley, B.Sc. (*Sask.*), Manager, Housing and Conference Services.

Bloomfield, Doris, Supervisor of Residences, Housing and Conference Services.

Davidson, M. Warren, Special Projects Officer.

Hall, Arthur G., Media Production Coordinator, Media and Technical Services.

Lloyd, Edgar R., B.Comm. (*Brit. Col.*), Manager, Media and Technical Services.

Martin, Trudy, Manager, Bookstore and Campus Shop.

Paul, Ralph T., Manager, Purchasing Service.

Samson, Christine, B.Sc. (*Acadia*), Administrative Assistant, Food Services.

Taylor, Vivienne, Supervisor, Food Services.

Titterton, David G., Manager, Physical Education, Athletic and Recreation Facility.

Personnel Services:

Bender, William G., B.A. (*Brit. Col.*), Director.

Savage, Robert L., C.D. and Bar, B.A. (*U. of Vic.*), Personnel Officer.

University Health Services:

Petersen, John E., M.D. (*Alta.*), Director and Medical Examiner for Committee on Human Subjects.

Mills, Graham, M.D., F.R.C.P.(C.), Psychiatrist.

Systems and Computing Services:

Widdifield, Herbert R., B.A. (*R.M.C.*), Director.

Alexander, Douglas A., B.Sc. (*U. of Vic.*), M.Sc. (*North Carolina*), Senior Programmer/Analyst.

Allen, Robert C., B.Sc. (*U. of Vic.*), Assistant Manager (Systems).

Brett, Arthur C., B.Sc. (*U. of Kansas City*), Ph.D. (*U. of Missouri*), Senior Programmer/Analyst.

Chan, Chorkin, B.Sc. (*Taiwan*), M.Sc. (*Man.*), Ph.D. (*Brit. Col.*), Manager, Academic Systems.

- Copping, Anthony K., B.Sc. (*Tor.*), Manager, Systems Services.
 Dickson, Kenneth E., B.Sc. (*Man.*), Senior Programmer/Analyst.
 Ewan, Jacques G., B.Sc. (*U. of Vic.*), Programmer/Analyst.
 King, John W., B.A. (*U. of Vic.*), Programmer/Analyst.
 Kissinger, Paul, B.Sc. (*U. of Vic.*), Programmer/Analyst.
 Law, Alan G., B.Sc. (*Calgary*), Senior Programmer/Analyst.
 Menhenett, Robert D., B.A. (*Calif.*), Coordinator, Standards and Training.
 Michelot, R. Roger, Programmer/Analyst.
 Molyski, Paul, B.Sc. (*Brit. Col.*), Senior Programmer/Analyst.
 Sales, N. Paul, B.Sc. (*London*), Senior Programmer/Analyst.
 Sampson, John B., Programmer/Analyst.
 Smith, Donna E., Analyst/Programmer II (Academic).
 Stothard, David, B.A. (*Brit. Col.*), M.P.H. (*Minnesota*), Manager, Computing Services.
 Sumson, Philip J., Assistant Manager (Operations).
 Tumpour, Allan D., B.Sc. (*U. of Vic.*), Programmer/Analyst.
 Tweedale, Alan, B.Sc. (*Manchester*), D.Phil. (*Sussex*), Senior Programmer/Analyst.
 Wong, Samuel K. P., B.Sc. (*Hong Kong*), M.Sc., Ph.D. (*Brit. Col.*), Senior Programmer/Analyst.

LIBRARY

- Halliwell, Dean W., M.A. (*Sask.*), B.L.S. (*Tor.*), University Librarian.
 Bayley, Sydney H., M.A. (*Edin.*), A.L.A. (*Strathclyde, Glasgow*), General Librarian, Collections.
 Berliner, Liselotte, B.A. (*Brooklyn Coll.*), M.L.S. (*Wash.*), General Librarian, Reference.
 Berry, Marilyn E., B.A., B.L.S. (*Brit. Col.*), General Librarian, Reference.
 Campbell, G. Robert, Systems Analyst.
 Dell, John O., B.A., B.L.S. (*Brit. Col.*), General Librarian, Cataloguing.
 Farrell, Robert W., B.A., M.A. (*Dublin*), B.L.S. (*McGill*), General Librarian, Collections.
 Gerwing, Howard B., B.A., B.L.S. (*Brit. Col.*), Special Collections Librarian.
 Gray, Robert M., B.A. (*Brit. Col.*), M.A., B.L.S. (*Calif.*), General Librarian, Reference.
 Grieve, Dorothy, B.A., (*West. Ont.*), B.L.S. (*Brit. Col.*), General Librarian, Reference.
 Hamilton, Donald E., B.A. (*Mt. Allison*), M.S.L. (*West. Mich.*), Education Librarian.
 Hruby, George J., M.Phil. (*Charles*), L.ès Sc.Mor. (*Geneva*), Ph.D., B.L.S. (*Montreal*), General Librarian, Cataloguing.
 Irving, Hugh L., B.A., B.L.S. (*Brit. Col.*), Assistant Head, Cataloguing.
 Isaak, David, B.A. (*United Coll.*), B.L.S. (*Tor.*), General Librarian, Reference.
 Kemlo, Ian J., B.A. (*Sask.*), M.L.S. (*West. Ont.*), General Librarian, Cataloguing.
 Komorous, Hana J., M.A., C.L.S. (*Charles*), General Librarian, Serials.
 Mah, Gene, B.A. (*Virginia Poly. Inst.*), M.L.S. (*Rosary Coll.*), General Librarian, Cataloguing.
 Martin, Peter T., B.A. (*Brit. Col.*), B.L.S. (*Tor.*), General Librarian, Reference.
 McPhee, Joan N., B.A., B.L.S. (*Brit. Col.*), General Librarian, Circulation.
 Melynk, Peter, B.Ag.Sc., Ph.D. (*Vienna*), M.S.L.S. (*Syracuse*), General Librarian, Cataloguing.
 Morris, Rollyn C., B.A. (*Calif. St. Coll.*), M.A. (*Iowa*), M.L.S. (*S. Calif.*), Music Librarian.
 O'Brien, Jack K., B.A., LL.B. (*Sask.*), B.L.S. (*McGill*), General Librarian, Cataloguing.
 Preisman, Sophia, M.A. (*Vienna*), Ph.D. (*Florence*), B.L.S. (*McGill*), General Librarian, Collections.

- Rodney, Helen M., B.A. (*Alta.*), B.L.S. (*Tor.*), Head, Reference.
Rose, Frances E., B.A. (*N.B.*), B.L.S. (*McGill*), Government Documents Librarian.
Scott, Priscilla R., B.A. (*Brit. Col.*), B.L.S. (*Tor.*), Head, Circulation.
Stastny, A. Harry, B.A. (*Brit. Col.*), B.L.S. (*McGill*), Antiquarian Orders Librarian.
Taggart, William R., B.A. (*Man.*), B.L.S., M.A. (*McGill*), Head, Collections.
Thomson, June G., B.A. (*Alta.*), M.A. (*Tor.*), B.L.S. (*McGill*), Head, Cataloguing.
Van der Voort, S. Ann, B.A. (*Queen's*), B.L.S. (*Tor.*), A.R.C.T. (*Tor.*), L.R.S.M. (*London*), Head, Acquisitions.
Whiffin, Jean I., B.A., B.L.S. (*Tor.*), Head, Serials.

REGISTRAR'S OFFICE

- Ferry, Ron J. P., B.A. (*Tor.*), Registrar.
Ghobrial, Latif T., B.A. (*Monmouth Coll.*), M.B.A. (*Pennsylvania*), Associate Registrar and Director of Admissions.
Granewall, Nels I., B.A. (*U. of Vic.*), Financial Aid Officer.
Groat, Jean M., B.Ed. (*U. of Vic.*), Records Officer, Professional Programmes.
Napier, Roger G., B.Sc. (*U. of Vic.*), Administrative Assistant, seconded to the Faculty of Graduate Studies.
Osborn, Daphne M., Mus.B. (*Boston*), Admissions Officer.
Reimer, John, Assistant Registrar.
Shimmin, R. Allen, Administrative Registrar.
Wetter, Judith A., B.A., M.A. (*Alta.*), Admissions Officer.

ENROLMENT 1973-74 AS OF DECEMBER 1, 1973

(Figures for 1972-73 are in brackets)

Faculty of Arts and Science — Full Time*

First Year	1115	(1004)
Second Year	775	(710)
Third Year	559	(609)
Fourth Year	491	(488)
Unclassified as to year	43	(40)

Total in Faculty	2983	(2851)
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Faculty of Education — Full Time*

Elementary Field:

First Year	202	(148)
Second Year	170	(150)
Third Year	164	(201)
Fourth Year	52	(71)
Fifth Year	8	(9)
Diploma Programme	45	(35)
Post B.Ed. Degree (Elem.) 5th Year Programme	1	(1)
Unclassified as to year	15	(9)

Secondary Field:

First Year	135	(111)
Second Year	94	(94)
Third Year	61	(75)
Fourth Year	60	(55)
Fifth Year	54	(73)
Diploma Programme	81	(60)
Unclassified as to year	1	(10)

Total in Faculty	1143	(1092)
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Faculty of Fine Arts — Full Time*

First Year	92	(62)
Second Year	73	(65)
Third Year	64	(50)
Fourth Year	47	(41)
Unclassified as to year	11	(2)

Total in Faculty	287	(220)
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Total full-time undergraduates*	4413	(4163)
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Total part-time undergraduates	1297	(855)
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Total Undergraduates	5710	(5018)
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Faculty of Graduate Studies:

Full-time	188	(210)
Part-time	171	(113)

Total Graduates	359	(323)
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Grand Total	6069	(5341)
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*Undergraduates registered in 12 units or more.

DEGREES CONFERRED MAY 1973

B.A. — 375; B.Sc. — 161; B.Ed. — 189; B.F.A. — 28; B.Mus. — 15; M.A. — 33; M.Sc. — 17; M.F.A. — 2; M.Mus. — 3; Ph.D. — 10. TOTAL — 833.

STUDENTS OF NON-B.C. ORIGIN 1973-74

Determined by location of previous educational institution attended. (Figures for 1972-73 are in brackets.)

Alberta	180	(112)
Saskatchewan	60	(43)
Manitoba	35	(36)
Ontario	164	(139)
Quebec	28	(23)
New Brunswick	10	(4)
Nova Scotia	17	(14)
Prince Edward Island	4	(1)
Newfoundland	1	(2)
Yukon	—	(—)
Northwest Territories	—	(—)
Other countries	276	(280)
	<hr/>	<hr/>
	775	(654)

BUILDINGS ON THE UNIVERSITY CAMPUS

Student Union Building (1962)	Campus Services Building (1965)
Clearihue Building (1962)	MacLaurin Building (1966)
Clearihue Classroom-Office Extension (1971)	Cornett Building (1966)
Elliott Building (1963)	Sir Arthur Currie Hall (1967)
Elliott Building: Lecture Wing (1964)	David Thompson Hall (1967)
Emily Carr Hall (1964)	Sedgewick Building (1968) additions (1969, 1970)
Margaret Newton Hall (1964)	Lansdowne College Buildings (1969)
McPherson Library (1964)	Cunningham Building (1971)
McPherson Library addition (1973)	Saunders Building (1974)
McKinnon Building (under construction)	

INDEX I — FACULTY AND ADMINISTRATIVE PROFESSIONAL STAFF

NOTE: Since the University Calendar goes to press in March, this list and lists under Faculties and Departments may be subject to some modification when the academic session begins.

- Abrioux, O. M., 130, 420
Acker, L., 220
Adam, J. E., 130
Adey, L., 114
Alexander, D. A., 426
Alford, N. W., 114
Algard, F. T., 67, 320
Alkire, W. H., 58, 191, 317
Allen, R. C., 426
Apps, G. E., 426
Archbold, G. J. D., 95, 323
Armstrong, R. D., 246, 420
Arthurs, J., 170
Ashwood-Smith, M. J., 67, 320, 420
Austin, A. P., 67, 320
Ayers, J. D., 246
- Baartz, A. P., 178, 334
Baker, S., 426
Bakony, L. I., 106
Baldner, R. W., 130
Balfour, W. J., 88, 322
Ball, D. W., 236, 342
Ballantyne, D. J., 67, 320
Barrodale, I., 178, 334
Barss, W. M., 202, 311, 420
Bates, P. M., 306
Bavelas, A., 220
Bavelas, J. B., 220
Bayley, S. H., 427
Beach, H. D., 220, 425
Beardsmore, B. F., 130
Beehler, R. G., 193
Beer, G. A., 202
Beer, R. S., 306
Bell, M. A., 67, 127, 320
Bell, R. D., 247
Bender, W. G., 426
Benzic, W., 114
Berliner, L., 427
Berry, S. A., 64
Bertram, G. W., 106
Best, M. R., 114
Biddulph, H. L., 212
Bloomfield, D., 426
Bowden, L., 178, 334
Bradley, I. L., 247
Brand, M. M., 425
Branton, G. R., 88, 322
Brett, A. C., 426
- Bridgman, H. D. W., 67
Bridgman, H. J., 158, 331
Bruni, R., 153
Bryant, J. F., 136
Buckley, J. T., 64
Burbank, I. K., 247
Burke, J. A., 202
Bushnell, G. W., 88, 322
Butler, R. E., 153
- Cabañas, P., 153, 420
Cameron, C. D., 425
Campbell, D., 95, 323
Campbell, G. R., 427
Campbell, I. W., 426
Carlson, B. F., 170
Carr, G. A., 247
Carr, R. A., 247, 421
Cawood, J. C., 247
Chabassol, D. J., 246
Chan, C., 426
Cheffins, R. I., 212
Cherneff, R. V., 106
Churchley, F. E., 246
Clark, S. R., 178, 334
Cleary, T. R., 114
Clements, R. M., 202
Climenhaga, J. L., 202
Cockayne, E. J., 178, 334
Collins, F., 348, 425
Collis, M. L., 246
Cooperstock, F. I., 202
Copping, A. K., 427
Corwin, G. W., 293
Cowan, C. W., 158
Cowan, P. L., 425
Cownden, M. N., 425
Cross, W. K., 246
Crumrine, N. R., 58, 317
Cumming, M. E., 236, 342
Currie, J. E., 106, 419, 422, 425
- Daniels, C. B., 193, 311
Darling, P. A., 426
Daug, D. R., 246
Davidson, M. W., 426
Davidson, R. R., 178, 334
Davies, T. K., 88
Davis, D. G., 425
Dell, J. O., 427

- Deloume, F. E., 178, 334
 Devlin, L. E., 348, 425
 Dewey, J. M., 202, 420, 421, 422, 425
 Dey, J. D., 246
 Dickson, K. E., 427
 Dietrich, H. F., 67
 Dingle, T. W., 88, 322
 Dippie, B. W., 158, 331
 Dixon, K. R., 88, 322, 421
 Dobereiner, J. P., 306, 420
 Docherty, D., 247
 Donald, L. H., 58, 318
 Dosso, H. W., 202
 Downes, G. V., 130
 Downing, J. A., 246
 Doyle, C. D., 114
 Drengson, A. R., 127, 193
 Duncan, P., 220

 Eckerson, J. D., 246
 Edgell, M. C., 136, 329
 Edwards, A. S., 114
 Edwards, P. M., 130
 Efrat, E. S., 212
 Ehle, B. L., 178, 334
 Elcock, M., 426
 Elias, W. E., 88
 Elliott, G. R., 212
 Elliott, J. P., 202
 Ellis, D. V., 67, 320
 Ely, R., 293
 England, A. B., 114
 Evanechko, P. O., 246
 Ewan, J. G., 427

 Faber, M. D., 114
 Fairclough, F. A., 422, 425, 426
 Farquhar, H. E., 419, 421, 422, 425
 Farrell, B. H., 136, 191, 329
 Farrell, R. W., 427
 Ferry, R. J. P., 419, 420, 421, 428
 Fields, W. G., 67, 320
 Fischer, A., 51, 88, 322
 Fitch, J. G., 95, 323
 Flores, R. M., 153
 Fontaine, A. R., 67, 320
 Foord, E. N., 51
 Forbes, E. R., 158, 331
 Forbes, G. H., 114
 Forward, C. N., 136, 329
 Foster, H. D., 136, 329
 Fraser, F. M., 344, 419, 421
 Freeman, J. C., 289
 Friedmann, G. B., 202, 228, 420

 Gaddes, W. H., 220
 Galichenko, N. V., 229
 Galloway, C. G., 246

 Gerwing, H. B., 427
 Ghobrial, L. T., 428
 Gibbins, S. G., 88, 322
 Gibson, E., 293
 Girard, C. S., 158, 331
 Goldwater, B. C., 220
 Gooch, B. N. S., 51, 114
 Gooch, V. L., 114
 Gordon, W. R., 178, 335, 420
 Goulson, C. F., 246
 Gowans, A. A., 289
 Granewall, N. I., 428
 Grant, P. J., 114
 Gray, R. F., 58, 318
 Gray, R. M., 427
 Greene, J. C. E., 130
 Gregory, P. T., 67, 320
 Grieve, D., 427
 Griffiths, D. A., 130
 Groat, J. M., 428
 Gunasinghe, S., 289

 Hadley, M. L., 49, 148
 Hagedorn, R. B., 236, 311, 342
 Hagmeier, E. M., 67, 320
 Haimberger, N. E., 148
 Hall, A. G., 426
 Hall, J. F., 246
 Halliwell, D. W., 419, 421, 427
 Hamilton, D. E., 427
 Hare, C. R., 301
 Hartman, K., 88
 Hartmanshenn, H. M., 148
 Hartwick, F. D. A., 202
 Harvey, D., 306
 Hastings, W. K., 178, 335
 Hayman, J. G., 114
 Hayward, J. S., 67, 320
 Hedley, R. A., 236, 342
 Hendrickson, J. E., 158, 331
 Henn, D. F., 153
 Hewgill, D. E., 178, 335
 Hibberson, M. C., 247
 Hinrichs, L. A., 178, 335
 Hobson, G. N., 220
 Hobson, L. A., 67, 191, 320
 Hocking, M. B., 88, 127, 322
 Hodder, G. S., 247
 Hodgkinson, C. E., 246
 Hogle, G. W., 301
 Hood, B. W., 293
 Hoppe, R. A., 220
 Horita, R. E., 202
 Horne, E. B., 246
 Horsburgh, H. J. N., 193
 Howatson, C. H., 136, 329
 Hruby, G. J., 427
 Hsiao, H.-I., 191, 229

- Hukari, T. E., 170
Hurd, A. E., 178, 335
Huxley, H. H., 95, 323
- Irving, H. L., 427
Isaak, D., 427
- Jackman, S. W., 158, 331, 420, 422
Jeffels, R. R., 130
Jeffrey, D. L., 114
Jenkins, A. W., 114, 169
Jennings, S. A., 178, 311, 335, 419,
421, 425
Johnson, B. R., 178, 335
Johnson, C. V., 114
Johnson, T. D., 247
Jones, J. C., 106
Juricic, Z. B., 229
- Kemlo, I. J., 427
Kennedy, D. E., 178, 335, 420
Kess, J. F., 170
King, A. R., 246
King, J. W., 427
Kirk, A. D., 88, 322, 420
Kissinger, P., 427
Kluge, E.-H., 193
Knowles, D. W., 246
Koenig, D. J., 236, 342
Komorous, H. J., 427
Komorous, R., 293
Köster, P. J., 114
Kotorynski, W. P., 178, 335
Kratzmann, A., 246, 311
Krich, J. F., 301, 421
Kupp, J., 158, 331
Kurth, B. O., 114
- Lacroix, L., 247
Lai, D. C., 136, 191, 329
Lambe, T. A., 345
Lambertson, C. L., 114
Lane, R. B., 58, 191, 318
Laudadio, L., 106
Law, A. G., 427
Lawrence, R. G., 114
Lazer, S. C., 236
Leeming, D. J., 178, 335
Leslie, R. F., 114
Leversedge, F. M., 136, 329
Levey, J. R., 425
Liedtke, W. W., 247
Limbrick, E., 130
Littlepage, J. L., 67, 320
Lloyd, E. R., 426
Lobb, D. E., 202
Lock, A. A., 426
Loft, A. E., 158, 331
- Lort, J. C., 425
- Macey, S. L., 114, 420
Mackie, G. O., 67, 320
MacLeod, R. A., 178, 335
Mah, G., 426
Martens, F. L., 246
Martin, P. T., 426
Martin, R. S., 425
Martin, T., 426
Mason, G. P., 246, 349, 425
Mason, G. R., 202
Mather, C., 293, 311
Matthews, J. T., 106, 420, 421, 425,
426
May, R. B., 220
Mayne, F., 114
McBratney, D. F., 247
McCue, R. J., 158, 331
McDade, G. D., 136
McDougall, D. C., 153
McDougall, E. M., 51
McGowan, K. I., 425
McHugh, M., 247
McInerney, J. E., 67, 320
McIntyre, B., 301
McLaughlin, R. A., 247
McOrmond, G. G., 114
McPhee, J. N., 427
McQueen, R. W., 106, 422, 425
Melnyk, P., 427
Menhenett, R. D., 427
Mentha, J.-P., 130
Michelot, R. R., 427
Michelsen, J. M., 193
Mickelsen, W. C., 293
Mickelson, N. I., 246, 422
Micklewright, M. A., 136, 329
Miers, C. R., 178, 335
Miller, D. J., 178, 335
Miller, G. G., 178, 335
Miller, H. M., 301, 420
Mills, G., 426
Milton, G. A., 220
Mitchell, D. H., 58, 318
Mitchell, R. H., 88, 322
Molyski, P., 427
Money, J., 158, 331
Monk, R. H., 246
Moody, M. M., 247
Mordaunt, J. L., 153
More, B. E., 293
Moreau, G. E., 130
Morley, J. T., 212
Morris, R. K., 289
Morris, R. C., 427
Morton, A. C., 426
Muir, W., 246

- Murfitt, R., 426
 Murley, C. E., 178, 335
 Murphy, M. J., 425
 Murphy, P. E., 136, 329

 Napier, R. G., 311, 428
 Neufeldt, V. A., 115
 Noble, O. P., 178, 335

 O'Brien, J. K., 427
 O'Brien, R. N., 88, 322
 O'Connor, T. W., 426
 O'Grady, G. N., 170
 Odeh, R. E., 178, 335
 Olesky, D. D., 178, 335
 Ollila, L. O., 246
 Osborn, D. M., 428
 Owen, E. E., 246
 Owens, J. N., 67, 320

 Paden, J. W., 67, 321
 Pal, I.-D., 106, 420
 Partridge, C. J., 114
 Paul, M., 67, 321
 Paul, R. T., 426
 Peake, L. H., 247
 Pearce, R. M., 202
 Peavy, R. V., 246
 Pedersen, K. G., 246, 419, 421
 Perry, G. N., 345
 Peter, J. D., 114
 Petersen, J. E., 426
 Pfaffenberger, W. E., 178, 335
 Picciotto, C. E., 127, 202
 Picozzi, R., 148
 Pieper, I. M., 301
 Piesowocki, K., 301
 Porteous, J. D., 136, 329
 Potter, G. D., 247
 Poulton, G. A., 88, 322
 Powers, R. J., 212
 Preisman, S., 427

 Raine, K., 103
 Rankin, K. W., 193, 420
 Reeves, J. F., 88
 Reid, R. G. B., 67, 228, 320
 Reimer, J., 428
 Rickwood, T. M., 229
 Riddell, J., 178, 335
 Riedel, W. E., 148
 Ring, R. A., 67, 320
 Robbins, P. R., 212
 Roberts, F. D. K., 178, 335
 Robertson, L. P., 202
 Robinson, F. P., 88, 322
 Rodney, H. M., 428
 Rogak, E. D., 178, 335

 Rolland, N., 58
 Rooke, C. M., 115
 Rose, F. E., 428
 Rosenblood, L., 220
 Rowen, N., 115
 Rowley, G. S., 293
 Roy, P. E., 158, 331
 Roy, R. H., 158, 311, 331, 420, 425
 Ruff, N. J., 212
 Russell, L. W., 103
 Ruth, R. A., 246
 Ryce, S. A., 88, 322
 Rylander, W. F., 425

 Sales, N. P., 427
 Sampson, J. B., 427
 Samson, C., 426
 Sandhu, H. S., 202
 Savage, R. L., 426
 Sawchuk, T. J., 426
 Scarfe, C. D., 202
 Scargill, M. H., 170
 Schaafsma, J., 106
 Schofield, J. A., 106
 Schuler, R. M., 115
 Scott, P. R., 428
 Segger, M. J., 285
 Seidel, J. G., 51
 Senese, D. L., 158, 331, 421
 Senior, J., 349, 425
 Sewell, W. D., 136, 329
 Shafer, E. A., 247
 Shelton, W. G., 158, 331
 Sheppy, J. J., 247
 Sherrin, P. M., 158, 331
 Sherwood, T. G., 115
 Shimmin, R. A., 428
 Shinbrot, M., 178, 335
 Shostak, P., 247
 Shrimpton, G. S., 95, 323
 Skelton, R., 103
 Skov, K. A., 64
 Small, M. A., 246, 421
 Smith, D. E., 427
 Smith, G., 306
 Smith, H. P., 178, 335
 Smith, H. F., 114
 Smith, M. D., 426
 Smith, N. C., 115
 Smith, P. L., 95, 288, 323, 419, 421
 Spellacy, F. J., 220
 Spreen, O., 220
 Sproule-Jones, M. H., 212
 Srivastava, H. M., 178, 335
 Stafford, D. A. T., 158, 331
 Stastny, A. H., 428
 Stenton, D. E., 202
 Stothard, D., 427

- Styles, E. D., 67, 320
 Sullivan, H. M., 202
 Summerfield, H. E., 114
 Sumsion, P. J., 427
 Swailes, R., 247
 Swainson, N. A., 212

 Taggart, W. R., 428
 Tatum, J. B., 202
 Taylor, H., 246
 Taylor, V., 426
 Terry, R. C., 115
 Thatcher, D. S., 114
 Thomson, J. G., 428
 Thornton, L. M., 236, 342
 Tiessen, G. W., 306
 Timko, H. G., 247
 Timmons, B., 247
 Tinney, R. E., 247
 Titterton, D. G., 426
 Tolman, C. W., 220
 Trelawny, J. G. S., 67
 Trumpour, A. D., 427
 Trust, T. J., 64
 Tryk, H. E., 220
 Tsurumi, E. P., 158, 191, 331
 Tuller, S. E., 136, 329
 Turton, D. J., 130
 Tweedale, A., 427

 Underhill, J. G., 425

 Valgardson, W. D., 103
 Van den Driessche, P., 178, 335
 Van der Voort, S. A., 420, 428
 Vance, J. H., 247
 Vaughan, M. M., 247
 Viesti, C. R., 247

 Vinay, J.-P., 51, 170, 419, 421

 Waelti-Walters, J. R., 130
 Wainman-Wood, E. P., 301
 Walker, D. R. T., 220
 Wallis, B. E., 115, 421
 Walsh, W. D., 106
 Walter, G. R., 106, 127
 Warburton, T. R., 236, 342
 Ward, P. R., 289
 Warkentyne, H. J., 170, 191
 Watson, R. E. L., 236, 342, 422
 Weaver, J. T., 202
 Welch, S. A., 289
 West, P. R., 88, 322
 West, W. D., 301
 Wetter, J. A., 428
 Whiffin, J. I., 428
 Whitfield, A. J., 426
 Widdifield, H. R., 426
 Wikkramatileke, R. W. A., 136, 329
 Williams, R. L., 247
 Williams, T. L., 115
 Wong, S. K. P., 427
 Wood, A. J., 64
 Woods, J., 193, 420
 Wooley, W. T., 158, 331
 Wright, R. L. D., 220
 Wu, C.-S., 202
 Wynand, D., 103

 Yore, L. D., 247
 Young, P. T., 293
 Young, W. D., 212
 Yoxall, F. C., 426

 Zietlow, E. R., 115

INDEX II — GENERAL

- Absence consequent on illness, 24
 Academic Advising, 38, 51
 Academic Regalia, 7
 Academic Regulations, 22
 Absence Consequent on Illness, 24
 Advanced Placement or Exemption
 without Unit Credit, 22
 Assessment Techniques, 24
 Attendance at Lectures, 24
 Credit, 27
 Credit by Special Evaluation
 (Course Challenge), 23
 Credit for Courses passed in a Year
 Failed Prior to 1969-70, 23
 Deferred Examinations, 25
 English Deficiency, 25
 Evaluation of Student Achievement,
 24
 Examination Results, 26
 Examinations, 24
 Final Year Studies, 22
 Grading System, 27
 Graduation, 24
 Illness or Domestic Affliction, 25
 Laboratory Work, 25
 Maximum Course Load, 22
 Minimum Course Load and
 Accumulation of Credit, 22
 Minimum Degree Requirements, 22
 Probation, 24
 Promotion, 22
 Repeating Courses, 22
 Review of an Assigned Grade, 26
 Satisfactory Standing — Under-
 graduate Students, 28
 Senate Regulations for University
 Examinations, 25
 Standing, 27
 Standing at Graduation, 27
 Term Assignments, 25
 Transcript of Academic Record, 29
 Undergraduate Supplemental
 Examinations, 28
 Withdrawal, 28
 Withdrawal for Unsatisfactory
 Standing, 28
 Academic Services, 38
 Academic Year, 3, 8
 Accommodation, 42
 Admission, 11
 Application for, 11
 Education, 253
 Graduate Studies, 311
 Requirements, 12
 Advanced Placement, 22
 Affiliate, 356
 Alma Mater Society, 44
 Alumni Association, 50
 Anthropology, 58, 317
 Applicants from other countries, 18
 Arms of the University
 See outside back cover
 Art Courses, 308
 Art Education Courses, 280
 Arts and Science, Faculty of, 51
 Courses, 57
 Assessment techniques, 24
 Astronomy, 209
 Attendance, 24
 Auditors, 20, 32
 Avenues of Redress, 47
 Awards, 359

 Bacteriology, 64, 319
 Biochemistry, 65, 319
 Biology, 67, 320
 Board of Governors, 419
 Bookstore, 40
 Buildings on the University Campus,
 430
 Bursaries, 359, 368, 382

 Campus Shop, 40
 Canada Manpower Centre, 39
 Categories of Students, 8
 Chancellor, 419
 Chancellor Emeritus, 423
 Changes in Registration, 20
 Cheating, Statement on, 46
 Chemistry, 88, 322
 Child Care Programme, 241
 Chinese, 233
 Choice of Programme, 8
 Classical Studies, 95, 96
 Classics, 95, 323
 Classification of students by year, 9
 Commerce, 111
 Computing Facilities, 41
 Computing Science, 187
 Concurrent Registration at another
 institution, 20
 Conduct, Student, 46
 Convocation, Officers of, 419
 Continuing Education, 348
 Correspondence, Directory of
 See inside front cover
 Counselling Centre, 38
 Admissions Testing, 39
 Educational-vocational Counselling,
 38
 Personal Counselling, 38

- Self-improvement programmes, 39
- Study and Learning problems, 39
- Course Equivalencies for Transfer Credit, 18
- Course challenge, 23, 37
- Courses not recognized in Faculty of Arts and Science, 56
- Courses open to First Year Students, 55
- Course Values and Hours, 9
- Creative Writing, 103
- Credit, 27, 51
- Credit for Courses Passed in a Year Failed Prior to 1969-70, 23
- Credit by Special Evaluation, 23
- Day Care Centre, 45
- Deadlines
 - Application, 34, 35
 - Changes in Registration, 20
 - Registration (See Academic Year), 3
- Dean Emeritus, 423
- Deferred examinations, 25
- Degrees, 52
 - B.A., 54
 - B.A. (child care), 241
 - B.A. (history in art), 289
 - B.A. (history in the arts), 289
 - B.Ed. (Elementary), 270
 - B.Ed. Elementary Curriculum, 256
 - B.Ed. Secondary Curriculum, 262
 - B.F.A.
 - Theatre, 301
 - Visual Arts, 306
 - B.Mus., 294
 - B.Sc., 54
 - M.A., 311
 - M.Ed., 311
 - M.Mus., 311
 - M.F.A., 311
 - M.P.A., 345
 - M.Sc., 311
 - Ph.D., 311
- Directory of Correspondence
 - See inside front cover
- Economics, 106, 324
- Education, Faculty of, 244, 325
 - Graduate Courses, 329
 - Programmes and degrees, 248
 - Teacher Certification, 253
 - Undergraduate Courses, 272
- Emeriti and Honorary Degree Recipients, 423
- English, 114, 326
 - Special Course in, 39
- English Requirement, 19
- Enrolment Statistics, 429
- Environmental Studies Programme, 127
- Evaluation of Achievement, 24
- Examinations, 24
 - Deferred, 25
 - English deficiency, 25
 - Illness or domestic affliction, 25
 - Results, 26
 - Review of an assigned grade, 26, 37
 - Senate Regulations, 25
 - Supplemental, 68
 - Timetables, 9
- Exemption Without Credit, 22
- Faculty Council, Members of, 421
- Faculty and Administrative-Professional Staff, 431
- Fees, 31
 - A.M.S., 32, 36
 - Auditors, 32
 - Board and Lodging, 36
 - Change of Programme, 34
 - Evaluation, 32
 - General, 31
 - Graduate Students' Society, 32
 - Graduate Studies, 31
 - Graduating Class, 32
 - Late Payment, 34
 - Late Registration, 33
 - Parking, 36, 37
 - Payment of, 33
 - Refund, 35, 36
 - Reinstatement, 33
 - Review of grade, 37
 - Scholarships, etc., 36
 - Student organizations, 32
 - Student Union, 32
 - Summer Session, 31
 - Supplemental examinations, 37
 - Transcripts, 37
 - Tuition, 31
 - Withdrawal, 35
 - Other Fees and Charges, 32, 33, 36
- Fellowships, 405
- Final year studies, 22
- Financial Aid, 359
- Fine Arts, Faculty of, 288
- Food Services, 43
- French Language and Literature, 130, 328
- French Language Diploma Programme, 348
- General Information, 5
- General Programme, Arts and Science, 54
- Geography, 136, 329
- Geology, 146
- Germanic Languages and Literature, 148

- Glossary, 6
 Grading System, 27
 Graduate Awards, 405
 Graduate Students' Society, 45
 Graduate Studies, Faculty of, 311
 Graduation, 24
 Graduation Standing, 27, 52
 Greek, 99
- Hazing, 47
 Health Service, University, 43
 Hispanic and Italian Studies, 153
 Historical Outline, 5
 History, 158, 330
 History in Art, 289, 332
 History in the Arts, 291
 Honorary Degree Recipients, 423, 424
 Honourable Dismissal, 28
 Honours Programme, Arts and Science, 53
 Housing, 42
- Individually Supervised Studies, 349
 Information, General, 5
 Interdisciplinary Programmes, 55
 Italian, 156
- Japanese, 233
- Laboratory work, 25
 Latin, 100
 Law, Faculty of, 344
 Lecture and Laboratory Schedule, 9
 Liberal Arts, 169
 Library, 38, 427
 Library Education, 281
 Limitation of Enrolment, 8
 Linguistics, 170, 333
 Loans, 408
- Major Programme, Arts and Science, 53
- Map of Campus
 See inside back cover
- Mature applicants, 17
 May-June Courses, 350
 Mathematics, 178, 334
 Maximum course load, 22
 Medical Requirement, 21
 Medical services, 43
 Minimum degree requirements, 22
 Minimum course load and accumulation of credit, 22
- Music, 293, 336
 Music Education, 281
- Nursing, 352
- Off-Campus Courses, 354
 Office Hours
 See inside front cover
- Other Bodies, 422
- Pacific Studies, 191
 Parking, 36, 37
 Personal counselling, 38
 Philosophy, 193, 338
 Physical Education, 282
 Physics, 202, 339
 Political Science, 212, 340
 Portuguese, 156
 Pre-professional Studies, 8, 357
 President, 419
 Principal Officers and Governing Bodies, 419
 Probation, 24
 Professors Emeriti, 423
 Programmes offered, 8
 Promotion, 22
 Psychology, 220, 341
 Public Administration, School of, 345
- Redress, Avenues of, 47
 Refund of Fees, 35, 36
 Regalia, Academic, 7
- Registration, 19
 Both Terms in Winter Session, 19
 Changes in, 20
 Completion of, 19
 Concurrent Registration at another institution, 20
 Declaration, 19
 English Requirement, 19
 In Fewer than 9 units of credit courses, 19
 In Graduate Courses by undergraduates, 20
 Late, 19
 One term only, 20
 Student responsibility, 20
 With Unsatisfactory Standing, 19
- Regulations, Academic, 22
 Repeating Courses, 22
 Re-registration
 Application for, 10
 Residences, 42
 Russian, 229
- Satisfactory Standing, 28
 Scholarships, 359

- Scholarship winners 1972-73, 410
Science, 228
Senate, Members of, 419, 420
Senate Representatives to Provincial Academic Board, 422
Serbo-Croatian, 233
Service Training at University, 47
Slavonic and Oriental Studies, 229
Social Welfare, 353
Social Work, 235
Sociology, 236, 342
Spanish, 153
Special Course in English as a Second Language, 39
Standing, 27
Standing at graduation, 27
Statistics Courses, 189
Student Activities, Unauthorized, 47
Student Affairs, 44
Student responsibility, 20
Students, Categories of, 8
Summer Session, 349
Supplemental Examinations, 28

Teacher Certification, 253
Term assignments, 25

Theatre, 301, 343
Transcript of Academic Record, 29, 30, 37
Transfer Credit, 18

Unauthorized Student Activities, 47
Undergraduate supplemental examinations, 28
Universities Act, 1, 5
University Arms
 See outside back cover
University Health Service, 43
University of Victoria Foundation, 422
University Officers, 425
University Representatives to Joint Board of Teacher Education, 422
University Statistics, 429
Unsatisfactory Standing, 19, 28

Vice-President, 419
Victoria Conservatory of Music, 356
Visitor, 419
Visual Arts, 306

Withdrawal, 28

UNIVERSITY OF VICTORIA

UVIC ARCHIVES

(sc)
LE3
V4
c.2

LEGEND

BUILDINGS

RESERVED PARKING

STUDENT AND STAFF PARKING

MOTORCYCLE PARKING

SIDEWALKS

*VISITOR METER PARKING AVAILABLE IN LOTS A, B, C, D, E, 7 and 5

**DAILY PAID PARKING FOR VISITORS AND OTHERS 25¢ PER DAY
OBTAIN TICKET FROM LOT 4 AND PARK IN ANY GENERAL
(UNRESERVED) LOT

KEY TO BUILDINGS

ELLIOTT

- PHYSICS
- CHEMISTRY

McPHERSON

- CENTRAL LIBRARY

CLEARIHUE

- CLASSROOMS, COUNSELLING
- MATHEMATICS, LINGUISTICS
- GERMANIC LANGUAGES & LITERATURE
- COMPUTER SERVICES

CORNETT

- ANTHROPOLOGY & SOCIOLOGY
- ECONOMICS, GEOGRAPHY
- PSYCHOLOGY, HISTORY
- POLITICAL SCIENCE

SEDGEWICK

- CLASSICS, ENGLISH, PHILOSOPHY
- HISPANIC AND ITALIAN STUDIES
- SLAVONIC AND ORIENTAL STUDIES
- OFFICE OF THE PRESIDENT

McGLAURIN

- EDUCATION, ARTS & SCIENCES, FINE ARTS
- FRENCH LANGUAGE & LITERATURE
- MUSIC, STUDIO VISUAL ARTS

CUNNINGHAM

- BIOLOGY

CRAIGDARROCH

- STUDENT RESIDENCES

LANSDOWNE

- STUDENT RESIDENCES
- HOUSING SERVICES

COMMONS

- DINING ROOM
- COFFEE SHOPS, LOUNGES

STUDENT UNION

- CLUBS, LOUNGES
- CAFETERIA

CAMPUS SERVICES

- BANK, BOOKSTORE, BARBER
- BEAUTY SHOP, COFFEE SHOP
- MEDIA AND TECHNICAL SERVICES

SAUNDERS

- BUILDINGS AND GROUNDS
- CAMPUS PLANNING
- TRAFFIC AND SECURITY

KEY TO BUILDINGS

E. FACULTY LOUNGE

- F. UNIVERSITY RELATIONS, CEREMONIES, ALUMNI OFFICES
- G. OFFICES

J. OFFICES, MALANAT REVIEW

- K. PURCHASING SERVICES

L. CLASSROOMS, GRAD STUDIES, PERSONNEL MAIL SERVICE

- M. REGISTRAR, ACCOUNTING, ADMISSIONS, SUMMER SESSION

N. HISTORY IN ART, BACTERIOLOGY & BIOCHEM

- SOCIAL SCIENCES RESEARCH CENTRE

O. BACTERIOLOGY AND BIOCHEMISTRY

- P. ATHLETICS, PHYSICAL EDUCATION

Q. PHOENIX THEATRE

- R. ADMIN STORES

S. GYMNASIUM

- V. STUDENT PLACEMENT OFFICE

W. DEVELOPMENT OFFICE

The Arms of the University

Extracts from the official description authorized by the College of Heralds, London: "Azure an open Book proper edged, bound and clasped Or; on a Chief Argent three Martlet Gules; And for the Crest on a Wreath of the Colours: dexter Cubit Arm proper in the hand a Torch erect Or enflamed also proper irradiated Gold and ensigned with a Scroll Argent thereon in Hebrew characters 'Let there be Light' Azure."