



UNIVERSITY OF VICTORIA

CALENDAR 1964-65

VICTORIA, BRITISH COLUMBIA, CANADA

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.

The University Calendar goes to press each year about mid-March. In consequence, the lists of Faculty members published under the sections on the departments may be subject to some modification when the academic year begins.



UNIVERSITY OF VICTORIA

Calendar
1964-65

VICTORIA, BRITISH COLUMBIA, CANADA

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CALENDAR

August 1, 1964 to July 31, 1965

AUGUST

S	M	T	W	T	F	S
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SEPTEMBER

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NOVEMBER

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DECEMBER

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JANUARY

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MARCH

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APRIL

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JUNE

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JULY

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ACADEMIC YEAR 1964-65

<i>Day</i>	<i>Date</i>	<i>Item</i>	1964
Saturday	1 Aug.	Last day for submission of application for bursaries.	
Monday	3 Aug.	Supplemental examinations begin.	
Friday	7 Aug.	Supplemental examinations end.	
Friday	14 Aug.	Last day for submission of applications for admission and applications for re-admission.	
Monday	17 Aug.	Fee for late submission of documents becomes effective 12:00 noon.	
Tuesday	18 Aug.	Summer session ends.	
Tuesday	1 Sept.	Academic Year begins.	
Monday	7 Sept.	Labour Day. University closed Saturday to Monday inclusive.	
Wednesday	9 Sept.	Senate meets.	
Monday	14 Sept.	Assigned accommodation in University residences becomes available in the evening.	
Tuesday	15 Sept. }	Registration in person for the winter session. Details of place and time are mailed to all students receiving Eligibility for Registration forms. Registration closes at 4:00 p.m. First term fees are due and payable. Ability Tests will be administered for new students.	
Friday	18 Sept. }		
Monday	21 Sept.	Lectures begin at 8:30 a.m. Late registration fee becomes effective.	
Tuesday	22 Sept.	Meeting for all new students at 1:00 p.m., Gymnasium, Gordon Head Campus.	
Thursday	24 Sept.	Programme of orientation for all new students, 7:30 p.m., Student Union Building.	
Saturday	26 Sept.	Last day for changes in students' courses; all changes must be reported to the Registrar's Office by this date.	
Monday	12 Oct.	Thanksgiving Day. University closed Saturday to Monday inclusive.	
Wednesday	14 Oct.	Senate meets.	
Wednesday	11 Nov.	Remembrance Day. University closed.	
Saturday	5 Dec.	Last day of lectures.	
Tuesday	8 Dec.	Examinations begin.	
Wednesday	9 Dec.	Senate meets.	
Friday	18 Dec.	First term ends.	
Friday	25 Dec.	Christmas Day } University closed.	
Saturday	26 Dec.		Boxing Day }
1965			
Friday	1 Jan.	New Year's Day. University closed.	
Monday	4 Jan.	Second term begins. Second term fees due and payable.	
Wednesday	10 Feb.	Senate meets.	
Friday	12 Feb. }	Mid-term break. Classes cancelled.	
Saturday	13 Feb. }		
Friday	9 April	Last day of lectures.	
Wednesday	14 April	Senate meets.	
Wednesday	14 April	Sessional examinations begin.	
Friday	16 April	Good Friday. University closed.	
Saturday	1 May	Sessional examinations end.	
Saturday	22 May	Summer office hours become effective. University closed Saturdays until 4 September inclusive.	
Monday	24 May	Victoria Day. University closed.	
Sunday	30 May	Baccalaureate service.	
Monday	31 May	Congregation.	

UNIVERSITY OF VICTORIA

VISITOR

Major-General The Honourable George R. Pearkes, V.C., P.C., C.B., D.S.O., M.C., LL.D.,
Lieutenant-Governor of the Province of British Columbia.

CHANCELLOR

J. B. Clearihue, M.C., E.D., Q.C., B.A., B.C.L., M.A., LL.D.

PRESIDENT

Malcolm G. Taylor, B.A., M.A., PH.D.

OFFICERS OF CONVOCATION

The Chancellor (Chairman).
The Registrar (Secretary).

BOARD OF GOVERNORS

Ex Officio:

The Chancellor.
The President.

Appointed by the Lieutenant-Governor in Council:

W. E. Ireland, M.A. (Honorary Secretary). Term expires June 30, 1965.
W. C. Gelling. Term expires June 30, 1965.
R. B. Wilson, B.COM. Term expires June 30, 1965.
H. B. Elworthy. Term expires June 30, 1966.
L. G. McKenzie, Q.C., B.A., LL.B. Term expires June 30, 1966.
W. C. Mearns, B.A. Term expires June 30, 1966.

Elected by the Senate:

J. A. Baker, Q.C., B.A. Term expires February 28, 1967.
G. F. Homer, M.D., F.R.C.S. (Eng.). Term expires February 28, 1967.
R. M. Petrie, B.A., A.M., PH.D. Term expires February 28, 1967.

SENATE

Ex Officio:

The Chancellor.
The President (Chairman).
The Deans of the Faculties.
The Head Librarian.
The Registrar (Secretary).

Elected by the Faculties:

R. J. Bishop, B.A., B.L.S., M.A. Term expires June 1966.
D. J. Chabassol, B.A., B.ED., M.ED., PH.D. Term expires June 1966.

Elected by the Joint Faculties:

P. L. Smith, B.A., M.A., PH.D. Term expires June 1966.
R. H. J. Monk, B.A., M.ED., PH.D. Term expires June 1966.
A. R. Fontaine, B.SC., D.PHIL. Term expires June 1965.
Mrs. D. E. Kennedy, M.A. Term expires June 1965.
R. E. L. Watson, M.A., PH.D. Term expires June 1965.
I. D. Pal, M.A., M.SC., PH.D. Term expires June 1965.
G. R. Elliott, B.A., M.A., PH.D. Term expires June 1964.
W. G. Fields, B.A., A.M., PH.D. Term expires June 1964.

G. P. Mason, M.A., PH.D. Term expires June 1964.
G. A. Milton, A.B., M.S., PH.D. Term expires June 1964.

Elected by the Convocation:

J. A. Baker, Q.C., B.A. Term expires November 1966.
F. T. Fairey, B.A., LL.D. Term expires November 1966.
R. M. Petrie, B.A., A.M., PH.D. Term expires November 1966.
J. G. Ruttan, B.A., M.A., B.C.L. Term expires November 1966.
B. A. Tobin, B.A. Term expires November 1966.
L. J. Wallace, B.A., M.ED. Term expires November 1966.

Appointed by the Lieutenant-Governor in Council:

N. D. Cameron, B.A. Term expires August 1966.
G. F. Homer, M.D., F.R.C.S. (Eng.). Term expires August 1966.
F. P. Levirs, B.A., M.A., M.S.ED. Term expires August 1966.
Mrs. M. T. Rieker, R.N., B.SC. Term expires August 1966.

FACULTY COUNCIL

Ex Officio:

The President (Chairman).
The Deans.
The Head Librarian.
The Registrar (Secretary).

Elected by the Joint Faculties:

Arts

M. M. Dane, B.A., M.A. Term expires November 30, 1964.
John De Lucea, B.B.A., M.A., PH.D. Term expires November 30, 1965.

Science

H. W. Dosso, B.A., M.SC. Term expires November 30, 1964.
B. A. Farrell, B.A., M.A., PH.D. Term expires November 30, 1965.

Education

Mrs. K. M. Christie, B.A. Term expires November 30, 1965.
E. B. Horne, B.A.SC., M.A. Term expires November 30, 1964.

PROFESSOR EMERITUS

Jeffree A. Cunningham, B.A. (*Queen's*), Professor Emeritus of Zoology.

ACADEMIC BOARD

Appointed by the Lieutenant-Governor in Council:

H. L. Campbell, B.A., M.ED., LL.D.
T. Norbert Beaupré, M.SC.
Harry M. Evans, B.A.

Appointed by the University of British Columbia:

S. N. F. Chant, O.B.E., M.A., LL.D.
Ian McTaggart Cowan, B.A., PH.D., F.R.C.S.

Appointed by Simon Fraser University:

R. E. M. Lester, LL.B.
Ronald J. Baker, B.A., M.A.

Appointed by University of Victoria:

R. J. Bishop, B.A., B.L.S., M.A. Term expires November 30, 1966.
R. T. D. Wallace, B.A., M.A. Term expires November 30, 1966.

JOINT BOARD OF TEACHER EDUCATION

Representing the University of Victoria:

The President, Dr. Malcolm G. Taylor, or his nominee.

The Dean of the Faculty of Education, Henry C. Gilliland, or his nominee.

Representative of Senate, Dr. David J. Chabassol.

Representing the Provincial Department of Education:

The Deputy Minister, Dr. J. F. K. English, or his nominee.

The Assistant Superintendent, Mr. F. P. Levirs, or his nominee.

The Registrar, Mr. Harry M. Evans, or his nominee.

The Co-ordinator of Teacher Recruitment, Mr. Philip J. Kitley, or his nominee.

Representing the University of British Columbia:

The President, Dr. John B. Macdonald, or his nominee.

The Dean of the Faculty of Education, Neville V. Scarfe, or his nominee.

Representative of Senate, Dean Walter H. Gage, Chairman.

Representing the B.C. School Trustees' Association:

Mr. J. A. Gray.

Mr. F. M. Reder.

Representing the B.C. Teachers' Federation:

Mr. C. D. Ovans.

Mr. Harold N. Parrott.

Secretary: Mr. J. E. A. Parnall.

UNIVERSITY DEVELOPMENT BOARD

H. B. Elworthy, *Chairman*

J. B. Clearihue

D. Angus

R. J. Bishop

L. J. Clark

H. E. Farquhar

J. V. Harboard

W. H. Hickinan

W. E. Ireland

W. C. Mearns

L. G. McKenzie

G. R. Newell

P. Rayment

R. T. D. Wallace

R. B. Wilson

F. A. Fairclough, *Manager*

OFFICERS AND STAFF

Malcolm G. Taylor, B.A., M.A., PH.D. (*California*), President.

Robert T. D. Wallace, B.A., M.A. (*Brit. Col.*), Dean of Administration.

Henry G. Gilliland, M.A. (*Brit. Col.*), Dean of the Faculty of Education.

Hugh E. Farquhar, M.A. (*Brit. Col.*), Director of Summer Session.

Ronald R. Jeffels, C.D., B.A., B.ED. (*Alberta*), M.A. (*Cantab.*), Registrar.

Dean W. Halliwell, M.A. (*Sask.*), B.L.S. (*Toronto*), Head Librarian.

Robert W. McQueen, B.COM. (*Brit. Col.*), C.A., Bursar.

Miss Dorothy M. Cruickshank, B.A. (*Brit. Col.*), Deputy Registrar.

Miss Patricia Sullivan, B.A. (*Sask.*), Associate Registrar.

Mrs. Marjorie Hoey, Assistant Registrar.

Miss Catherine D. Cameron, Secretary to the President.

OTHER DIVISIONS

Accounting Department:

Robert W. McQueen, B.COM. (*Brit. Col.*), C.A., Bursar.

M. Warren Davidson, Purchasing Agent.

Dennis G. Davis, C.A., Accountant.

Mrs. Marjorie Sinclair, Assistant Accountant.

Buildings and Grounds

Arthur J. Saunders, B.A.S.C. (*Brit. Col.*), P.ENG., Superintendent.

Bookstore:

Mrs. E. Joyce McKay, B.A. (*Man.*), Manager.

Computer Centre:

Peter A. Darling, B.A.S.C., M.A.S.C. (*Brit. Col.*), Director.

Counselling and Testing:

Miss Esme N. Foord, M.A. (*Queen's*), B.PAED., ED.D. (*Toronto*), Associate Professor,
Director of Counselling and Testing.

William A. Cooke, B.A. (*Alberta*), M.A. (*Wash.*), Assistant Counsellor.

Student Health Service:

Dr. J. E. Petersen, Director.

Mrs. W. Oliver, R.N., Nurse in charge.

Student Union Building:

Richard F. Chudley, Proctor.

Library:

Dean W. Halliwell, M.A. (*Sask.*), B.L.S. (*Toronto*), Head Librarian.

Miss Priscilla R. Scott, B.A. (*Brit. Col.*), B.L.S. (*Toronto*), Head of Public Services
Division.

Leland Windreich, B.A. (*Calif.*), B.L.S. (*Calif.*), Head of Technical Processes Division.

Denis A. Godson, B.A. (*Brit. Col.*), B.L.S. (*Toronto*), Head of Serials Department.

Andrew G. Kyle, A.B., M.S.L.S. (*U.S.C.*), Head of Reference Department.

Miss Ann Van der Voort, B.A. (*Queen's*), B.L.S. (*Toronto*), Head of Acquisitions
Department.

Miss Freda Bailey, B.A. (*Brit. Col.*), B.L.S. (*McGill*), Cataloguer.

Mrs. Gladys Cropp, B.A. (*Brit. Col.*), B.S. in L.S. (*Washington*), Part-time Cataloguer.

John O. Dell, B.A. (*Brit. Col.*), B.L.S. (*Brit. Col.*), Cataloguer.

Howard B. Gerwing, B.A. (*Brit. Col.*), B.L.S. (*Brit. Col.*), Reference Librarian.

Miss Ann de Lotbiniere-Harwood, B.A. (*Brit. Col.*), B.L.S. (*Brit. Col.*), Reference
Librarian.

Mrs. Joan Lawrence, B.A. (*New Brunswick*), M.S.C. in L.S. (*Wisconsin*), Part-time
Cataloguer.

Miss Alison Maude, B.A. (*Minnesota*), Circulation Librarian.

Mrs. Helen Rodney, B.A. (*Alberta*), B.L.S. (*Toronto*), Reference Librarian.

James G. Sharpe, B.A. (*Brit. Col.*), B.L.S. (*Toronto*), Cataloguer.

Harry Stastny, B.A. (*Brit. Col.*), B.L.S. (*McGill*), Bibliographer.

Miss Grace Tuckey, B.A., B.S.W. (*Brit. Col.*), Curriculum Librarian.

Evening Division:

Robert T. D. Wallace, M.A., Director.

Summer Session:

Hugh E. Farquhar, M.A., Director.

University Development Board:

Floyd A. Fairclough, Manager.

Women's Activities:

Mrs. O. Phoebe Noble, B.A. (*Brit. Col.*), Coordinator.

MRS. JUNE G. THOMPSON

ROBERT FARRELL

MISS MARILYNNE PETERSON

MRS. JACQUELINE M.S. THOMPSON

MRS. CHRISTINE MORRISON

MISS MARGARET STORRELAND.

MISS FRANCES RESCUE

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 coöperation 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 degrees.

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.

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.

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.

Bachelors

- Gown* traditional (Canadian) Bachelor's style, in black.
Hood Aberdeen pattern, without neckband and finished with two cord rosettes, 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
Headdress standard black cloth mortarboard with black silk tassell.

Masters

- Gown* traditional (Canadian) Master's style in black.
Hood similar in design and colour to the respective Bachelor's hoods, but with 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.

Academic Affairs

Academic Services

Medical, Housing and Food Services

Student Affairs

ACADEMIC AFFAIRS

All enquiries relating to admission to the University should be addressed to the Registrar.

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

GENERAL INFORMATION

The academic year begins on the first of September and ends on the last day of August. The Winter Session is divided into two terms—the first, September to December; the second, January to May. The Summer Session consists of seven weeks' instruction in July and August.

For the session of 1964-65 the University offers instruction in the four years of the Faculty of Arts and Science, and in five years of the Faculty of Education leading to the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Education.

By a 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. Courses preparatory to Medicine, Dentistry, Law, Architecture, etc., may be taken at the University. See page 105 Pre-professional education.

Students are warned not to assume that regulations remain unchanged from year to year. They should note regulations and outlines of courses as they appear in this Calendar.

Application for admission should be made as early as possible before August 14, 1964, to the Registrar, University of Victoria. Students registering for the first time must present their High School Graduation (University Programme) Certificates, and any higher certificates they may have obtained.

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 minimum academic qualification for admission to the University is High School Graduation (University Programme). This programme is approved by the Senate of the University for the purpose and is administered by the Board of Examiners of the Province on which are representatives of both the University and the Department of Education. Enquiries relating to High School Graduation or to the Grade 12 and Grade 13 examinations should be addressed to the Executive Secretary of the Board of Examiners, Department of Education, Victoria, B.C.

Only those students will be admitted in September who complete in full the requirements for admission as a result of recommendation or written Departmental examinations in the preceding June. Any applicant who, after the June examinations, has any deficiency due to failures will not be considered for admission in that same year. No student will be admitted with incomplete or conditional standing.

2. **Graduates of Secondary Schools outside British Columbia.** The minimum academic qualification for admission to the University of applicants from outside British Columbia is Senior Matriculation (equivalent level of Grade 13, British Columbia) provided that the subject-matter and standing obtained, in addition to meeting University requirements, meet the entrance requirements of the applicants' own national or provincial universities. Admission will be limited to applicants with good academic records.

3. **Admission with Advanced Standing:**

- (a) An applicant, resident in British Columbia, who has undertaken studies in Grade 13 of this Province, may be given credit for subjects passed that are appropriate to his objective subject to the following conditions: (i) that at

least three subjects be passed at one sitting of the Grade 13 Departmental examinations; (ii) that a full programme of at least five Grade 13 subjects be presented if the applicant cannot qualify under (i). A Grade 13 student who fails to obtain passes in at least three subjects at one examination period will be required to complete successfully the full Grade 13 programme of at least five subjects before his application for admission to the University can be considered.

A Grade 12 student who passes one or two Grade 13 subjects may, if the standing obtained is sufficiently high, be granted advanced placement in this subject or subjects on registration at the University, but no advance credit will be assigned, i.e., his university programme will not be shortened thereby.

Once having been admitted, a student shall be subject to the University regulations in respect of supplemental examination privileges and may not obtain standing for subjects subsequently completed by way of Grade 13 Departmental examinations and thereby circumvent these regulations.

A student may not receive credit for subjects taken through Grade 13 examinations after he has been granted 15 units of course credit either as advanced standing on admission to the University or through completion of university courses or a combination of these.

- (b) An applicant who has completed work at another university or college, or has the equivalent of senior matriculation taken outside British Columbia may be given credit for subjects previously passed, provided they are equivalent to courses offered in the University curriculum, are of sufficiently high standing, and are appropriate to the programme elected by the applicant. Such advanced standing will be tentative only and is subject to review after the student has completed one or more sessions at the University.

Advance credit granted in a degree programme is limited and may not normally be applied to the final two years of the programmes.

Except where specifically stated otherwise in the regulations of a particular faculty, a student may not receive a degree unless he completes the equivalent of two winter sessions in attendance at the University.

4. Registration for one course only: Students taking one course only of the Regular Session offerings must register by mail through the Evening Division before September 18. **Registration without penalty must be completed before lectures begin on September 21.** On and after September 21 a late registration fee of \$5.00 will be charged.

5. Students from Other Countries: A student from a country where English is not the common language must satisfy the Registrar that his knowledge of English is adequate to permit the successful pursuit of his studies.

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

6. Limitation of Attendance:

- (a) The University reserves the right to limit attendance, 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.
- (b) Except in special circumstances, no student under the age of sixteen may be admitted to the University.

REGISTRATION

Every student 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.

1. Registration for New Students: As a preliminary step, a student applying for registration for the first time must obtain from the Registrar's office an **Application for Admission** form. The completed form, together with necessary certificates and a recent passport-type photograph of the applicant, should be submitted by August 14 in the case of a student proposing to attend the Winter Session and by May 4 for the Summer Session. Following receipt of this form the applicant will, in due course, be advised with respect to his admission and standing, and, if eligible, given instruction on procedure for completing registration. **Please note that applications cannot be con-**

sidered unless they are accompanied by supporting documents showing the applicant's past academic record.

2. **Re-Registration:** Students who have already been in attendance at the University must apply for re-registration on forms available from the Registrar's office on or before Friday, August 14. They will also be required to register in person between September 15 and September 18. Students will be notified by mail of the exact time for registration in person.

Change of Programme: A student who wishes to transfer to another faculty within the University should notify the Registrar of his intention as early as possible before August 14.

Supplemental Examinations: If the results of supplemental examinations affect the standing of a student, his Notice of Eligibility for Re-registration will not be issued until examination results are available.

3. **Completion of Registration:** Registration must be completed in person on the dates indicated in the *Academic Year*, page 5. Assessed fees are due and payable at the time of registration. No student will be permitted to complete registration until such fees have been paid.

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 University of Victoria, and of the faculty 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.

In the first and each subsequent registration the student is required to enrol for the particular classes which he proposes to attend.

4. **Change In Registration:** A student desiring to make a change in the programme of courses for which he has registered must apply to the Registrar's office. Except in special circumstances, no change will be permitted after September 26.

All other pertinent changes, including those in address and telephone number, must be reported promptly to the Registrar's office.

5. **Student Responsibility:** 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 entered on his *course card* in the Registrar's office.

A student may not take courses for which he has not registered, and may not drop courses without permission.

6. **Medical Examination:** Students registering at the University for the first time are required to take a medical examination before registration can be completed. This examination is not provided by the University; it is the applicant's responsibility. The necessary forms are provided at the time of acceptance. Students who do not take the medical examination prior to registration will be required to do so, at their own expense, otherwise registration cannot be completed.

CLASSIFICATION OF STUDENTS

1. **Full:** a student proceeding to a degree in any faculty, who has met all requirements of the year in which he is registered.

2. **Conditioned:** a student proceeding to a degree with defects in his standing which do not prevent his entering a higher year under the regulations governing **Examinations and Advancement** of the faculty in which he is registered.

3. **Occasional:** a student who has been granted permission to enrol in certain courses and attend classes on the understanding that he will not be entitled to credit towards a degree for any work taken.

This category includes the student who, because of maturity, has been permitted to enrol in spite of deficiencies in his formal academic record. In the event that he obtains sufficiently high standing and indicates his desire to proceed to a degree, he may later be given credit by the faculty concerned for all or part of the work taken.

GRADUATION

Every candidate for a degree must make formal application for graduation. Application for graduation in the spring must be made not later than March 1. Special forms for this purpose are available in the Registrar's office.

ATTENDANCE

1. **Attendance at Lectures:** A student is required to attend at least seven-eighths of the lectures in each course for which he is enrolled. Admission to a lecture or laboratory and credit for attendance may be refused by the instructor for lateness, misconduct, inattention or neglect of duty.

2. **Deficient Attendance:** In case of deficient attendance a student may (with the sanction of the Dean and the head of the department concerned) be excluded from the Christmas or the final examination in a course; but, in the case of a final examination, unless the unexcused absences exceed one-fourth of the total number of lectures in a course, the student may be permitted to sit for the supplemental examination.

3. **Absence Consequent on Illness or Domestic Affliction:** Absences may be excused only by the Dean, and medical certificates or other evidence must be presented for absence of three days or more.

EXAMINATION RESULTS

Results of the sessional examinations in April will be mailed to students in the graduating class and to other Arts and Science students about the middle of May. Students in the Faculty of Education will receive their statements of marks early in June.

TRANSCRIPT OF ACADEMIC RECORD

A transcript of a student's academic record will, on request of the student, 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 credit earned is determined on the results of the sessional examinations, a transcript will not include results of Christmas or mid-term examinations.

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

No transcript will be issued to or for a student who has not made arrangements satisfactory to the Bursar's 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 scholastic 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 year; three copies free of charge following graduation; additional copies supplied at a charge of 50¢ each.

WITHDRAWAL

Any student who after registration decides to withdraw from the University must report to the Registrar's office. 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.

The Board of Governors 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.

SUPPLEMENTAL EXAMINATION CENTRES

Supplemental examinations may be written in August at the following 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.

In unusual circumstances a student working in a remote area may be permitted to write supplemental examinations at a special centre if satisfactory arrangements can be made. Since permission is contingent on completion of arrangements only early applications will be considered.

The fee for each supplemental examination written at the University is \$7.50; at a regular outside centre, \$12.50; at a special centre, \$20.00. In the event that a candidate does not appear for an examination, the refund will be \$5.00 only.

Applications for supplemental examinations in respect of the Winter Session examinations, accompanied by the necessary fees, must be in the hands of the Registrar by July 15.

RE-READING OF EXAMINATION PAPERS

Re-readings, where permitted by the faculty concerned, are governed by the following regulations:

1. Any request for the re-reading of an answer paper other than for a supplemental examination (in which a request for a re-reading will not be granted) must reach the Registrar within two weeks after the announcement of examination results and must be accompanied by a fee for each paper of \$5.00, which will be refunded only if the mark is raised.

2. Each applicant for a re-reading must state clearly why he believes the content of his paper to deserve a mark higher than it received; pleas on compassionate grounds should not form part of this statement, and prospective applicants should remember that a paper with less than a passing mark has been read at least a second time before results are announced.

3. Re-readings will not be permitted in more than two papers (6 units) in the work of one academic year, and in one paper (3 units) in a partial course of 9 units or less or in the work of one Summer Session.

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 examinations. 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.
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 in charge.
13. Candidates who fall ill or who suffer domestic affliction before an examination should report the circumstances immediately to the Registrar.
14. In cases 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.

FEES

General

1. The University reserves the right to change fees without notice.
2. All cheques must be certified and made payable to "University of Victoria".
3. Fees are not transferable from one session to another.
4. 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.
5. Students who incur Library and Parking fines will receive bills payable at the Accounting Office.
6. All students registering for Chemistry are required to pay \$3.00 Chemistry Laboratory fee.
7. Students who withdrew from a credit course should notify the Registrar immediately in writing. Otherwise, full fees will be assessed and applications for re-registration will not be accepted until accounts are settled in full.

Winter Session

1. Fees for a course of 12 units or more are as follows:

	First Term	Second Term	Total
Tuition	\$186.00	\$186.00	\$372.00
AMS fee	30.00	—	30.00
	\$216.00	\$186.00	\$402.00

2. Fees for a course of less than 12 units are as follows:

	First Term	Second Term	Total
Tuition	\$ 12.50 per unit	\$ 12.50 per unit	\$ 25.00 per unit
AMS fee	30.00	—	30.00

3. The Alma Mater Society fee, authorized by the Board of Governors, is exacted from all students in the Winter Session for the support of the Alma Mater Society. This fee is \$30.00 and is payable on registration. Inquiries with respect to this fee should be directed to the President, Alma Mater Society.
4. The Graduating Class fee, authorized by the Board of Governors, is exacted from all students in the Winter Session who are registered in the final year of a course leading to a Bachelor's degree. This fee is for the support of graduating class activities, and inquiries with respect to the fee should be directed to the Alma Mater Society. The fee is \$10.00 and is payable on registration.

5. First term fees are payable at the time of registration, and, together with the Alma Mater Society fee and the Graduating Class fee, must be fully paid before registration is completed. Students are not entitled to admission to classes until they have registered. The second term fees may also be paid at the time of registration.
6. When permission to register late is granted, a late fee, additional to all other fees, will be charged. The late fee is \$25.00 on the first day of lectures in the first term, and \$25.00 plus \$5.00 per diem thereafter. This fee must be paid at the time of registration. Refund of this fee will be considered only on the basis of a medical certificate covering illness or on evidence of serious domestic affliction.
7. A fee of \$10.00 will be exacted from all students who fail to submit documents supporting their applications for admission or re-admission at the time required. See page 15. However, no student will be required to pay this fee if he also incurs the fee for late registration mentioned above.
8. Second term fees are payable in full during or before the first week of lectures in the second term. In order to avoid inconvenience to themselves, students are advised to mail cheques for second term fees to the Accounting Office before the commencement of the second term.

Students who fail to pay fees as required during the second term will be assessed a late fee of \$5.00. In addition, those who fail to pay fees before the end of the second week of lectures will have their registrations cancelled.

Reinstatement will depend upon approval by the President. If reinstatement is granted, the student shall pay a fee of \$5.00 for reinstatement, in addition to the late fee of \$5.00.

9. The following amounts will be charged for each week, or part of a week, of lectures prior to the date on which the student notifies the Registrar officially of his cancellation of registration, or his withdrawal from the University:

First term — \$26.00 per week (\$25.00 tuition fee; \$1.00 Alma Mater Society fee)

Second term — \$25.00 per week.

No refund will be made of first term fees after the sixth week of lectures in the first term, and of second term fees after the third week of lectures in the second term.

Summer Session

1. Fees are payable on registration and are \$25.00 per unit.
2. When permission to register late is granted, a late fee of \$20.00, additional to all other fees, will be charged.

Extra-Sessional Courses

1. The fees from these courses are as follows:

	First Term	Second Term
Fee per unit	\$12.50	\$12.50
2. First term fees are payable on registration. When permission to register late is granted a late fee of \$5.00, additional to all other fees, will be charged.

Special Fees

Regular supplemental examination, per paper	\$ 7.50
Supplemental examination at regular centres, per paper	12.50
Supplemental examination at centres outside of British Columbia	12.50
Supplemental examination at special centres, per paper	20.00

Supplemental examination fees in respect to Winter Session supplementals must be paid when application for examination is made and not later than July 15. In the event a supplemental examination is not written, the refund, whether application had been made to write at the University, at a regular centre or at a special centre, will be \$5.00 only. No refunds will be granted after August 31.

Late submission of documents	10.00
Re-reading, per paper, payable with application	5.00
Fees 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 a charge of 50¢ each.	

ACADEMIC SERVICES

THE LIBRARY

Since good books are essential to sound learning, the Library is often referred to as the centre of academic life on the campus. To keep pace with the growth and expansion of the University of Victoria, its Library has undertaken an accelerated programme of development and service. By the spring of 1964, the book collection totalled approximately 145,000 volumes and was growing at a rate of over 25,000 volumes annually. The Library regularly receives some 1,300 periodicals, and has in addition a substantial collection of long-playing records.

Under the Library's open-stack system, students have access to all books in the collection. The former Dewey Decimal Classification is now being replaced by the Library of Congress Classification; well-trained staff members are always available to help the student make the fullest use of the Library's collection. Regulations governing loan periods and fines are published in the Students' Handbook and are displayed prominently in the Library. Full Library privileges are extended without charge to all University of Victoria students and staff members, and may be granted to other persons upon application.

While classes are in progress during the Session 1964-65, the Library's hours of opening will be as follows:

Mondays through Fridays 8:30 a.m. to 9:30 p.m.

Saturdays 8:30 a.m. to 4:30 p.m.

At other times the Library is open from 8:30 a.m. to 5:00 p.m., Mondays through Fridays.

COUNSELLING, TESTING AND PLACEMENT OFFICES

(1) **COUNSELLING:** Full time counsellors are available to confer with students regarding academic problems, course selection, vocational guidance and personal problems. Reference materials are available in the Counsellor's office on careers and career planning, personal adjustment, study habits, academic programmes, university calendars, scholarships, graduate studies, etc.

The office is open during the summer months, and students planning to enter the University in September are urged to make an appointment to discuss choice of programmes and courses with the counsellors during July or August.

(2) TESTING:

College Aptitude Tests: These tests are administered to all students anticipating entrance to the University. An opportunity to take these tests is provided during April and May. For students in the Greater Victoria area tests are administered at the University; for students in other districts of Vancouver Island, at local secondary schools with the cooperation of the Department of Education. Notices will be sent to local superintendents and principals regarding dates. Students coming from other areas or those who missed the spring administration will write the tests during the registration period at the University.

Interest and other tests are available for all students at the Counselling Office to help in the selection of courses or to assist the students in choice of a career.

The College Entrance Examination Board Tests and the Graduate Record Examination are also administered. Students wishing to write these tests can obtain further information at the Counselling Office.

(3) NATIONAL EMPLOYMENT SERVICE

The Student Placement Office, operated by the National Employment Service, is located on the campus. Students interested in part-time work during the University term or in temporary work during Christmas and summer holidays are requested to visit this office early in the term to complete an employment application.

Graduating and other students seeking permanent employment on leaving University are advised to apply at this office. Early registration for career employment is important in order that appointments may be made in advance for interviews with employers who visit the campus.

Notices regarding employment opportunities of all kinds will be posted conspicuously in campus buildings. These notices will include information on Federal and Provincial Government vacancies, as well as those in industrial and other private organizations.

The Student Placement Office is operated on a full-time basis and will be open daily, Monday through Friday.

Students and other persons who wish to arrange for an interview with the Student Placement Officer should make an appointment.

UNIVERSITY BOOKSTORE

The Bookstore, located in the E. B. Paul Building, was established for the convenience of the students, and has effected a considerable saving to the students in time and money. It is prepared to supply all the text-books required for the various courses offered, and to accept special orders for books other than texts. Students may also purchase at the Bookstore all general supplies such as note-books, loose-leaf refills, ballpoint pens, drawing paper, etc.

During the winter session the Bookstore is open Monday to Friday from 8:30 a.m. to 5:00 p.m. and Saturday morning from 9:00 a.m. to 12:00 noon.

MEDICAL, HOUSING AND FOOD SERVICES

UNIVERSITY ACCOMMODATION FOR WOMEN STUDENTS

The University will provide accommodation for 142 women students in new residences located adjacent to the Library and the Student Union Building.

Application forms for the Women's Residences can be obtained from the Office of the Dean of Women. Applications received later than August 15 will not be considered. Assignment of rooms will be considered at the end of August for students who have returned their completed application forms (including a caution money deposit of \$25) and have received their notice of eligibility from the Registrar's Office.

Students are urged to note that the caution money deposit will be forfeited for any of the reasons listed below.

1. If the student leaves during either term.
2. If the student decides not to live on campus and fails to notify the Office of the Dean of Women by August 15.
3. If first term payment for board and lodging is not received at the Accounting Office two weeks prior to the first day of lectures.
4. If the student has not arrived to occupy her accommodation within the first week of lectures. (Exceptions can be made if the Office of the Dean of Women is notified in writing before the first day of registration, although board and residence will be assessed from the opening of the term.)
5. If the student is responsible for damage to buildings and equipment (over and above normal wear and tear) an assessment will be deducted from the \$25.

Assignment will be cancelled for failure to make first term board and lodging payment two weeks prior to the first day of lectures or for failure to notify of late arrival. Notification must be received in writing by the first day of registration.

Students who have been assigned residence accommodation may occupy their rooms from the evening of the day before registration. Meal passes will be issued to become effective for breakfast on the first day of LECTURES. During registration week meals may be obtained on Campus at current rates.

During 1964-65 the rates for board and lodging in the University residences will be as follows:

Double room:	First term	\$255.00
	Second term	340.00
Single room:	First term	\$270.00
	Second term	360.00

Students are required to make their first term payments in full on or before September 7, 1964, and the second term payments before December 16, 1964.

Board and Residence

A list of private homes where students may obtain full board and room, room and breakfast only, or light housekeeping accommodation may be obtained from the Registrar's Office or the office of Mrs. O. P. Noble, who acts as Dean of Women. While the University authorities make every effort to maintain an up-to-date listing of available homes, there is no guarantee that suitable accommodation will be found by the University for every student who applies. Students are discouraged from attempting to work for all or a portion of their board and room payment. Men and women students are not permitted to lodge in the same house, unless they are members of the same family, or receive permission from the Faculty. The cost of full board and room varies from about \$65 to \$80 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 week's notice is the accepted term of notice prior to October 31. After this date a full month's notice is required in order to leave private accommodation, otherwise students can expect to forfeit a month's rent.

Students are urged to check with the University Housing Office (Room E-51) before they accept accommodation obtained through newspaper advertisements.

Cafeterias

A cafeteria, where meals may be obtained at nominal prices, is located on each campus.

UNIVERSITY HEALTH SERVICE

The University Health Service consists of two Out-Patient Departments, one located in Hut "V" on Gordon Head Campus just north of the Student Union Building, and the other in Room 220, Young Building, Lansdowne Campus.

The Health Service is not a teaching department, being maintained solely for the benefit of students who may require medical care and advice, especially those whose homes are not in Victoria or vicinity, or who have no regular family doctor. **Medical advice or treatment is available to students and is free.**

A nurse is in attendance 8:30 a.m. to 4:30 p.m. Monday to Friday and 8:30 a.m. to 12:00 noon on Saturday at Gordon Head Campus and at posted times at Lansdowne. A doctor is in attendance for consultations 12:00 noon to 1:00 p.m. and by appointment 1:00 p.m. to 2:00 p.m., Monday to Friday. It should be noted that all consultations are held to be entirely confidential. Records are not available to any other person, and information contained in them will be released only at the request of the student.

Adequate consultative psychiatric help is available if required, and students are therefore urged to bring any problems of University life to the Health Service before such problems have developed to a serious stage — especially where incurred by either illness or overwork.

M.S.I. provide supplementary coverage to the existing University Health Services. Students are advised to take advantage of this exceptional opportunity, unless they are already protected by parents' health coverage. The cost of the plan is unusually low to the student. The dues, for the period October 1, 1964 to September 30, 1965, are \$6.50. Married students may obtain coverage for themselves and their immediate family at a slightly higher yearly rate. The dues to cover this plan are payable to the University at the time of registration.

Routine Regarding Sickness and Injury:

1. Students developing any illness are expected to report to the Health Service on the first day of illness. (Phone 477-1841, Local 43).
2. Students absent one week or more on account of illness are advised to report with a medical certificate.
3. Students unable to write an examination because of illness should contact the Health Service, and if absent from a December or April examination must submit a certificate obtained from a doctor during the illness.
4. Students are reminded that those suffering any injury while on the campus should report for first aid at the Health Service.

STUDENT AFFAIRS

ALMA MATER SOCIETY

The Alma Mater Society is the legally incorporated society of students at the University of Victoria. Through its executive arm, the Students' Council, it coordinates student activities, promotes student welfare, and represents students to the University and the community. Its aim is to ensure that students receive maximum benefit from university life by participation in academic, social, cultural, and recreational programmes.

The students are the Alma Mater Society. In the due electoral process, a Students' Council is elected on a campus-wide franchise. This Council consists of fifteen elected members: President, Vice-President, Secretary, Treasurer, Director of Men's Athletics, Director of Women's Athletics, Director of Publications, Director of Clubs, Special Events Chairman, Canadian Union of Students Chairman, Social Convenor, and Student Union Building Director. One representative is elected by first year women, and one by first year men. One senior year representative is elected from the graduating class. The Editor-in-Chief of the University newspaper is appointed to Council by the Director of Publications.

Student government is centred in a new Student Union Building which is controlled by a joint committee of faculty and students. Facilities are available for club meetings, social events, and luncheons.

All students at the University of Victoria are eligible to participate in any A.M.S. function. Close contact between students and members of Council ensures that student wishes are incorporated into policy and that maximum benefit is derived by A.M.S. members.

President: Mrs. Olivia Barr

Past President: Laurence E. Devlin

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.

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.

The Board of Governors also prohibits hazing.

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.

Students may not bring liquor within the precincts of the University; they may not consume liquor within the precincts. They may not consume liquor at any function held under the name of the University.

The Board of Governors considers unlawful entry of buildings on either 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.

MOTOR VEHICLES: PARKING

1. Lansdowne Lot — for Faculty and students.
2. Foul Bay Road Lot — south of Paul Building — for Faculty only.
3. Foul Bay Road Lot — north of Paul Building — for students.
4. Lot west of the Paul Building — for Faculty and Students' Council.
5. All parking areas adjacent to the Young Building and Ewing Building are reserved.
6. The drivers of all cars parked in unauthorized areas will be subject to a fine of \$2.00 for each offence.

SERVICE TRAINING UNITS OF THE UNIVERSITY

CANADIAN OFFICERS' TRAINING CORPS

The U.B.C. Contingent of the C.O.T.C., of which the University of Victoria detachment forms a part, was re-established in 1928 and has operated continuously since that time.

The revised programme governing training in the C.O.T.C. provides an opportunity for selected students to qualify for commissions in the Canadian Army, Regular and Militia. Upon acceptance, the candidate is appointed as an Officer Cadet with the status of 2/Lt. at a basic pay of \$225 per month. He is required to devote a minimum of three hours per week at the University to theoretical training in the Winter Session, during which he may earn up to \$120, and he may engage in summer training for a minimum of 12 weeks and up to a maximum of 22 weeks during each of two summers at one of the various Corps Schools of the Regular Army across Canada. The third summer he spends as a junior officer in one of the Regular Army units in Canada or in Germany. On the successful completion of his military training, and upon graduating from the University, the Officer Cadet is qualified for the rank of Lieutenant. A number of officers are accepted into the Regular Army each year. A Regular Officer Training Plan (R.O.T.P.) has also been established whereby selected students with Junior or Senior Matriculation will be subsidized throughout University to their degrees. Their tuition and books will be paid for and, in addition, they will receive an allowance of \$128 per month during the University terms. During the summers they receive \$63 per month all found. On acceptance for R.O.T.P. a student must undertake to serve in the Regular Army for a minimum of three years following graduation.

All inquiries for information should be directed to Major R. H. Roy, c.d., Officer Commanding, University of Victoria Detachment, U.B.C. Contingent, C.O.T.C.

UNIVERSITY NAVAL TRAINING DIVISION

The University Naval Training Division trains officers both for the Royal Canadian Navy and the Royal Canadian Naval Reserve. The training programme, carried out weekly during the academic year and during summer vacation, is calculated to develop qualities of leadership, loyalty, and self-confidence while concurrently imparting specific knowledge on naval matters both ashore and afloat.

1. **Royal Canadian Navy** — Students between the ages of 16 and 21 desiring to make a career in the R.C.N. are selected and enrolled under the "Regular Officer Training Plan" (R.O.T.P.). Application must normally be made by July 1. Full information may be obtained from the Director R.O.T.P., Ottawa, Ontario, or from the nearest Armed Forces Recruiting Centre.

Under R.O.T.P. the R.C.N. pays for books, tuition, etc., and a subsistence allowance of \$65 per month and pay of \$73 per month during the academic year. During summer months training, cadets receive board and lodging in lieu of subsistence allowance. Free medical and dental care is also provided from the date of enrolment.

2. **Royal Canadian Naval Reserve** — Recruiting is normally carried out on campus during the month of September. Applicants must be enrolled in a course such that they will not reach their twenty-fifth birthday before January 1 of the year of graduation.

Cadets must complete three periods of winter training and two periods of summer training to qualify for promotion to the rank of Acting Sub-Lieutenant. During winter training, cadets are paid up to a maximum of sixteen full days pay; during summer training, carried out in ships and shore establishments, they receive \$235 per month, plus board, lodging, medical and dental care. Uniforms and necessary kit are provided by the Naval Service. Cadets are eligible, at any time, to apply for transfer to the R.O.T.P., or to the regular force.

Full information may be obtained from the Commanding Officer, LCDR. L. Cottrell, 349 Sylvia Street, Victoria, or from the Executive Officer, Lt. R. F. Chudley, Student Union Building, University of Victoria.

R.C.A.F. (RESERVE) UNIVERSITY SQUADRON

The detachment of the R.C.A.F. Primary Reserve Squadron located at the University of Victoria Campus offers undergraduates an opportunity to qualify for commissions in the Regular and Reserve components of the R.C.A.F.

Training is carried out at weekly parades during the academic year and at R.C.A.F. Stations during the five-month summer recess. This training is designed to develop character and leadership and to qualify students for a commission in one of the branches of the Air Force.

Students who desire to make the R.C.A.F. a career may be enrolled as Officer Cadets in the R.C.A.F. Regular, under the Regular Officer Training Plan (R.O.T.P.). By agreeing to remain with the air force a minimum of three years after graduation, the selected candidate receives a monthly salary of \$73, a living allowance of \$65 per month or equivalent, and a book allowance of \$75 per year in addition to the University fees. Male students under 25 years of age who meet the medical and academic standards may apply for training under this plan. Preference, however, is normally given to undergraduates taking Engineering or Honours Mathematics, Honours Physics and Honours Chemistry courses.

On the other hand, undergraduates who are interested in the R.C.A.F. on a reserve basis, may enroll in the air force under the University Reserve Training Plan (U.R.T.P.). This plan offers three summers and winters of Reserve training for the student who is accepted. While undergoing training U.R.T.P. members have the status of officers and hold the rank of Officer Cadet. On completion of three years of training, the successful candidate receives his commission and is promoted to Pilot Officer. Following graduation from university, Pilot Officers are promoted to Flying Officer and their names are placed on the list of inactive reserve officers. Both male and female undergraduates may make application for training under the U.R.T.P. in an air force branch allied with their academic studies. Accepted students are paid at the rate of \$235 per month during the summer and provided with food, lodging, clothing and transportation to the applicable R.C.A.F. unit. Summer training normally covers a period of from 16 to 22 weeks and winter training consists of one parade a week during the academic term. For full attendance at parades during the academic year, U.R.T.P. members may receive a maximum of 16 days pay amounting to approximately \$100.

Aircrew training is open only to members of the R.O.T.P. Non-aircrew training covers both technical and non-technical branches. The technical branch is broken down into the following components: aeronautical engineering, armament engineering, construction engineering and telecommunications engineering. The non-technical branch has the following components: accounts, administration, chaplain, education, personnel specialist, recreation, supply, ground defence, flying control, fighter controller, ground observer, and security.

Additional information may be secured by contacting Squadron Leader G. G. McOrmond, University Squadron staff officer.

Faculty of Arts and Science

FACULTY OF ARTS AND SCIENCE

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

Registration and Admission

1. Registration must be completed by September 18, as described on pages 15 and 16.

2. After September 26, except in very special circumstances and with the permission of Faculty, no student may change the programme for which he has registered.

3. All changes in registration must be made by the student at the Registrar's office. A student may not take courses for which he has not registered, and will be considered as having failed in all courses dropped without permission.

Summer Session and Other Credits

1. Although the degrees in this Faculty are normally granted on completion of the required units in the winter session, credits obtained in summer session may be combined with those obtained in winter session to complete the required number of units. A degree will not be granted, however, in less than four years from High School Graduation (University Programme) or three years from Senior Matriculation.

2. The maximum credit for summer session work in any one calendar year is 6 units.

3. The maximum credit for work other than that of the winter and summer sessions is 3 units in each academic year, not exceeding a total of 15 units subsequent to Senior Matriculation or First Year.

4. Students who plan to undertake work at other universities in the same year during which work has been attempted at University of Victoria, must receive prior approval from the Dean or the Registrar if they wish such courses to be credited towards a degree at University of Victoria. Extra-mural work done at other universities prior to registration at the University of Victoria may be accepted, if approved by Faculty, but may not exceed 3 units in respect of any one academic year or a maximum of 15 units subsequent to Senior Matriculation.

5. Students in attendance at the University may not register for extra-mural or correspondence work to be taken concurrently.

6. Candidates for degrees are advised to attend at least one winter session, preferably that of the Final Year.

Senior Matriculation Credits

See pages 14 and 15.

General Regulations

1. Students who are accepted by transfer from other institutions must complete all further courses at the University of Victoria. The University will normally not grant a degree for residence of less than two regular winter sessions or the equivalent.

2. Students who take more than 15 units in any year may not receive credit in a higher year for these extra units unless they already have advance credit in the year.

3. Subjects credited to one year may not be transferred later to a higher year.

4. No student may take more than 18 units and, without special permission of the Dean, fewer than 15 units, in each winter session.

5. Students may not receive University credit for courses passed for High School Graduation whether taken among the required credits or as extra subjects.

6. Students may not continue with work in a higher year, unless they take concurrently all courses required to clear conditions or deficiencies in the lower years. The total of all work taken may not exceed 18 units. They may continue only in subjects for which they have successfully completed the prerequisites.

7. Students are responsible for ensuring that their courses have been chosen in conformity with Calendar regulations.

8. All students must complete the Final Year in residence at University of Victoria.

Examinations

1. Examinations in the winter session are held in December and April. In December they are held in all First and Second Year courses and in upper year courses at the discretion of the Department concerned. In April they are held in all courses except those final at Christmas. These examinations are obligatory.

2. 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 cases of illness a medical certificate must be presented to the Registrar's office.

3. In any course which involves both laboratory work and written examinations, students will be required to make satisfactory standing in both parts. **Results in laboratory work will be announced prior to the final examination, and students who have not obtained a mark of at least 50% will neither be permitted to write the examination nor to receive any credit for the course.** If the course is repeated, no exemption will be granted from the work in either part. The same rules may, at the discretion of the departments concerned, apply to non-science courses with laboratory work.

4. 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.

Standing and Credit

1. Candidates taking at least 15 units of work, and obtaining at least 50% in each subject, will be graded as follows: First Class, an average of 80% or over; Second Class, 65 to 79%; Passed 50 to 64%.

2. (a) A student taking 9 or more units in the winter session will receive credit for a course only if, as a result of the final examinations of that session, he passes in courses totalling at least 9 units, including the course in question. The passing grade for a course is 50%. A student may be denied a passing mark, however, for unsatisfactory work during the session.

(b) A student taking fewer than 9 units in the winter session will receive credit for a course only if, as a result of the final examinations of that session, he passes in all his courses. The passing grade for a course is 50%. A student may be denied a passing mark, however, for unsatisfactory work during the session.

(c) A student in the summer session or in extra-sessional courses will receive credit for each course in which he obtains a grade of at least 50%. A student may be denied a passing mark, however, for unsatisfactory work during the session.

3. Courses for which credit has not been obtained must be repeated, or permissible substitutes taken, in the next regular session attended. **Except in the case of English 100 or 200, no course may be repeated more than once.** In the winter session the total of all courses may not exceed 18 units.

4. Term essays and examination papers will be refused a passing mark 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.

Supplementals

1. (a) In the winter session, 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 mark of not less than 40%, and (ii) he has obtained (as a result of the final examinations held in April) at least 12 units of credit in that session. In any one session, no candidate will be granted supplementals in more than 3 units.

(b) **No supplementals will be granted to students registered in summer session or Evening Division.**

2. If a supplemental granted in a course is passed with a grade of at least 50%, 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 50%. Similarly the overall average will not be changed if a subject already passed is written for higher standing.

3. 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.

4. Supplemental examinations, covering the work of both the first and second terms, will be held in August in respect of winter session examinations.

5. Applications for supplemental examinations, accompanied by the necessary fees, must be in the hands of the Registrar by July 15.

6. 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 "Standing and Credit."

Notice will be sent to all students who are entitled to supplemental examinations.

Re-Readings

See page 18.

Unsatisfactory Standing

1. A student with standing defective in respect of more than 3 units, although he will not be permitted to register in a higher year, may be allowed to continue by registering in the lower year and by taking courses in accordance with the section under "Standing and Credit."

2. A student who, twice in succession, fails to obtain credit in the winter session may, upon the recommendation of Faculty, be required by the Senate to withdraw from the University. A student required to withdraw from another faculty may be permitted to register only by special permission. A student with unsatisfactory standing from another institution will not be admitted.

3. Any student whose academic record, as determined by the tests and examinations of the first term, is unsatisfactory may upon the recommendation of the Faculty be required by the Senate to discontinue attendance for the remainder of the Session.

COURSES LEADING TO DEGREE OF B.A.

A student may proceed to the B.A. degree either in a General Course or in an Honours Course. The requirements for a General Course B.A. enable a student to obtain a broad general education in several fields without specialization in any one of them. The course of study for an Honours degree, on the other hand, requires that a student study one or two subjects intensively during the last two or three years of his course. In some cases students may postpone the decision as to whether to proceed in a General Course or in an Honours Course until the end of the Second Year, as requirements usually involve certain prerequisite courses which must be taken in the first two years. Students should consult pages 37 to 78.

A General Course degree will be granted on completion of courses amounting to a minimum of 60 units chosen in conformity with Calendar regulations; an Honours Course degree will, similarly conforming, require 66 units to 81 units.

Course credits are described in terms of units. The unit values are given in the various course descriptions, pages 37 to 78.

Students planning to article for Chartered Accountancy after completion of the B.A. degree are advised by the Institute of Chartered Accountants of British Columbia to include Commerce 151 and Economics 200 in their programmes.

FIRST AND SECOND YEARS

Courses in each of the First and Second Years must be chosen to conform not only with the rules and regulations in the preceding pages but also with requirements set forth in the following regulations and notes.

- (a) In the First Year a minimum of 15 units is required. In the Second Year of a General Course and of all Honours Courses, at least 15 units are required; in certain Honours Courses, however, 18 units must be taken.
- (b) English 100 must be taken in the First Year and English 200 in the Second Year.
- (c) A language course must be taken in *each* of the First and Second Years (see Notes 1, 4).
- (d) At least one laboratory science course (3 units) must be taken in *either* the First *or* Second Year (see Note 5 below).
- (e) At least one humanities or social science course (3 units) must be taken in *either* the First *or* Second Year (see Note 6 below).
- (f) Electives taken in the First and Second Years must be selected in accordance with Notes 1, 2, 3, 7, 8 below.

Reference Notes

1. Not more than one course numbered below 100, taken at the University or College or in Senior Matriculation, may be counted for credit for degrees in Arts and Science.

2. All courses for First Year credit must be selected from the following list. For prerequisites and other details, see pages 37 to 78.

Astronomy 120	Greek 100, 200
Bacteriology 100	History 101, 102
Biology 105	Latin 90, 110 or 120
Botany 105	Mathematics 120 or 121
Chemistry 100 or 102	Music 120
Economics 100	Philosophy 100
English 100	Physics 101 or 103
Fine Arts 126	Psychology 100
French 110 or 120	Russian 100
Geography 101	Spanish 90, 110 or 120
German 90, 110 or 120	Zoology 105

3. All courses for Second Year credit must be selected from the list in Note 2 or from the following additional subjects.† For prerequisites and other details consult pages 37 to 78.

Anthropology 200	*History 200, 201, 212, 304 or 400
Botany 205	Latin 210 or 220
Chemistry 204, 224, 230, 233	*Mathematics 200, 204, 220, 221, 222, 223
*Classical Studies 315, 331	Philosophy 202, 222, 302
*Commerce 151	Physics 211, 222
*Economics 200, 321	Political Science 200
*English 200, 202, 245	Psychology 200, 220
Fine Arts 200	Russian 200
French 210 or 220, 223	Sociology 200
Geography 201, 203, 204	Spanish 201
Geology 200	Theatre 200
German 200	Zoology 202
Greek 301	

* Commerce 151 is open only to those students who are permitted to register in the Second Year. English 202, English 245 and History 304 or 400 are open only by special permission. For Classical Studies a knowledge of Greek and Latin is not required. Economics 321 requires the permission of the instructor.

† SPECIAL NOTE: With the permission of the department concerned, other courses numbered 300 or above may be taken for Second Year credit.

4. Students must meet the language requirements (c) by choosing courses in French, German, Greek, Latin, Russian, Spanish in accordance with *one* of the following plans:

- (i) they must take a language course of the 100 level in the First Year, and a course in the same language of the 200 level in the Second Year;
- (ii) they must take a language course numbered 90 in the First Year, a course in the same language of the 100 level in the Second Year, and, in the same language, a course of the 200 level in the Third or Fourth Year.
- (iii) if their courses in the first two years include at least 12 units of laboratory sciences, or at least 9 units of laboratory sciences and 6 units of Mathematics, they may take, in the First and Second Years, any two (in the same or different languages) of French 110 or 120, 210 or 220, German 90, 110 or 120, 200, Greek 100, 200, 301, Latin 90, 110 or 120, 210 or 220, Russian 100, 200, Spanish 90, 110 or 120, 201. Only one course numbered 90, however, may be selected. Students whose courses in the combined First and Second Years include 18 units of laboratory science may defer the language of the Second Year to their Third or Fourth Year.

5. The compulsory laboratory science course must be chosen from Astronomy 120, Bacteriology 100, Biology 105, Botany 105, Chemistry 100 or 102, Geography 101, Physics 101 or 103, Zoology 105. A student who takes at least 18 units of languages (other than English) in the combined First and Second Years, may, however, defer this science course to the Third or Fourth Year.

6. The compulsory humanities or social science course must be chosen from Anthropology 200, Classical Studies 331, Economics 100, 200, 321, Geography 201, History 101, 102, 200, 201, 212, 304 or 400, Philosophy 100, 202, 302, Political Science 200, 201, Psychology 100, and Sociology 200. A student who takes 12 units of laboratory science courses in the combined First and Second Years may defer this course to the Third or Fourth Year.

7. Mathematics 120 (or 121) is required for admission to Architecture, Engineering, Forestry, for all programmes leading to a B.Sc. degree, and for majors or Honours in Mathematics and most of the Sciences. It is prerequisite to Mathematics 220 or 221 and 222. Mathematics 120 or 121 is required for entrance to Commerce, Medicine, Nursing and Pharmacy. Mathematics 120 or 121 is recommended for students in the humanities and social sciences. Departments should be consulted. The prerequisite for Mathematics 120 or 121 is Mathematics 91 of the British Columbia High School Programme, or the equivalent.

8. The special Honours elective, which must be chosen from the subjects listed in Notes 2 and 3, need be taken only by students who are proceeding to these Honours Courses which require 18 units in the Second Year. The individual departments should be consulted. See also pages 37 to 78.

THIRD AND FOURTH YEARS

The requirements for a B.A. in a General Course and in an Honours Course are described in the following sections.

Except in an approved Honours Course, credit will not be given toward the B.A. degree for courses in Education.

Graduation standing in either a General or an Honours Course is determined on the results in all courses taken for the degree beyond the Second Year.

General Course Curriculum

In the combined Third and Fourth Years a minimum of 30 units, of which at least 15 units must be taken in the Third Year, are required. The following regulations apply:

1. Courses must be selected so as to include two majors in different subjects. In general a major in a subject consists of a 9-unit combination of courses, numbered 300 or higher, in that subject. Each major has a prerequisite course or courses, numbered less than 300, which should be taken in the first two years. Details of majors and prerequisites are given under each subject in which a major is offered. (See pages 37 to 78).

2. The two majors may not both be selected from different branches of the same subject.

3. In certain cases the prerequisite courses for majors may be taken in the Third Year, but courses thus taken may not be counted as part of the 9 units required for a major.

4. At least 6 units must be taken in a subject or subjects other than those from which the majors are selected.

5. The remaining units required for the combined Third and Fourth Year programme may be selected from courses, not already chosen, in the same subject as the majors or otherwise.

6. Not more than 9 units in courses numbered less than 300 may be counted for credit in the 30 units required in the combined Third and Fourth Years.

HONOURS CURRICULUM

At the present time Honours Courses are offered in the following subjects: Chemistry, Economics, English, Geography, History, Philosophy, Physics, Political Science, Psychology, Zoology.

A student may proceed to the B.A. degree in an Honours Course in a single subject or in an Honours Course in two subjects. An Honours Course in two subjects may be a four-year course from High School Graduation or a five-year course from High School Graduation.

The B.A. in any Honours Course requires the completion of the First and Second Years in conformity with the regulations on pages 33 to 34. For Honours at least 18 of the requisite units in the combined Third and Fourth Years must be taken in the subject concerned and at least 6 units in another subject or subjects. Units required for Honours Courses vary between 51 and 66 in the Second, Third, and Fourth Years, depending upon the nature of the programme.

Prerequisites and requirements for Honours Courses are listed under those subjects in which such courses are offered.

Students must consult the Head of the Department concerned as soon as possible if they plan to enter Honours Courses.

The following regulations govern Honours Courses:

1. A student proposing to take an Honours Course must obtain the consent of each department concerned. This consent will normally be given only if (a) the department or departments concerned are prepared to offer the Honours Course proposed; (b) the student has a clear academic record in the work of the first two years, and has at least Second Class standing in the work of the Second Year and in the subject or subjects of specialization; and (c) the student has completed all prerequisite courses. He may not continue in an Honours Course after the Third Year without the consent of the departments concerned.

2. A candidate for Honours may be required to present a graduating essay, which may count from 3 to 6 units. A candidate for Honours in two subjects will not be required to present more than one graduating essay. The latest date for receiving graduating essays in the second term is the last day of lectures.

3. A candidate for Honours may be required at the end of his Final Year to take a general examination, oral or written or both, as the department or departments concerned shall decide.

4. Honours are of two grades, First and Second Class. A student who passes all his courses but fails to obtain a Second Class in his graduating essay or who fails to attain a Second Class average for his Third and Fourth Year courses may be granted appropriate standing in a General Course.

5. A candidate in the Honours Course who does not complete his studies for graduation in May following Fourth Year will be required to register for all uncompleted subjects, including graduating essay, in a subsequent session, summer or winter, and will be assessed the regular fees for these subjects.

COURSES LEADING TO THE DEGREE OF B.Sc.

At the discretion of the departments concerned, a student may proceed to the B.Sc. degree in the fields of Biology, Botany, Chemistry, Mathematics, Physics, Psychology (Honours only), and Zoology. The degree may be taken in an Honours Course in one or more of these fields, or in a General Course in which two of these subjects are majors.

FIRST AND SECOND YEARS

Courses in each of the First and Second Years must be chosen to conform, not only with the general rules and regulations of the Faculty of Arts and Science, but also with the requirements set forth in the following regulations and notes.

- (a) In the First Year a minimum of 15 units is required. In the Second Year of a General Course and of all Honours Courses, at least 15 units are required; in certain Honours Courses, however, 18 units must be taken.
- (b) English 100, Mathematics 120 or 121, two science courses (see Note 2 below), and one language course (see Note 1 below) must be taken in the First Year.
- (c) Three science courses (see Note 2 below) and one non-science elective (see Note 3 below) must be taken in the Second Year.
- (d) General electives must be selected in accordance with Notes 1, 2, 3 and 8 on pages 33 and 34.

Reference Notes:

1. The language requirement in (b) must be met by the selection of one course chosen from French, German, Greek, Latin, Russian, and Spanish. Students who may transfer to Engineering should note that the course must be selected from French, German, Latin (110 or 120 only), Russian.

2. The two required science courses in the First Year must be selected from Astronomy 120, Bacteriology 100, Botany 105, Chemistry 100 or 102, Physics 101, Zoology 105. The three required science courses in the Second Year must be selected from those in the foregoing list, not already taken, or from Botany 205, Chemistry 224, Geology 200, Mathematics 220, 221, 222, 223, Physics 211, 222, Psychology 200, Zoology 202. No two of the required sciences in the Second Year, however, may be selected from the same department. Students electing Honours in Psychology may take the second required science in the Second Year.

3. The non-science elective required in (c) above must be a course not already taken, selected from English, Languages, Anthropology, Classical Studies, Economics, Fine Arts, Geography, History, Philosophy, Political Science, Psychology, and Sociology, and chosen from the courses in notes 2, 3, page 33.

THIRD AND FOURTH YEARS

The requirements for the B.Sc. degree in the Third and Fourth Years are the same as those stated on pages 34 and 35 for the B.A. degree. The following special regulations, however, should be noted:

General Course. The courses selected must include two 9-unit majors in two different departments chosen from Biology or Botany, Chemistry, Mathematics, Physics, Zoology. In the combined Third and Fourth Years a student must also take at least two courses (6 units) chosen from English, Languages, Anthropology, Classical Studies, Economics (except courses in statistics), Fine Arts, Geography (non-science courses without laboratory), History, Philosophy, Political Science, Psychology (non-laboratory courses), Sociology.

Honours Courses: See page 35 and department requirements.

COURSES IN ARTS AND SCIENCE

The number of units assigned to a course is given in round brackets immediately following the course number. Thus 200 (3) under Anthropology indicates that Anthropology 200 is a three-unit course.

The hours assigned for laboratory, lectures and tutorials in a course are indicated as follows:

- | | |
|--|----------------|
| 2 lectures and 3 hours laboratory per week, both terms. | (2-3; 2-3) |
| 1 lecture and 2 hours laboratory per week, first term. | (1-2; 0-0) |
| 1 lecture and 2 hours laboratory per week, second term. | (0-0; 1-2) |
| 2 lectures, 3 hours laboratory and 2 hours tutorial or discussion per week, either term. | (2-3-2) |
| 2 lectures, 3 hours laboratory and 2 hours tutorial or discussion per week, both terms. | (2-3-2; 2-3-2) |

DEPARTMENT OF ANTHROPOLOGY AND SOCIOLOGY

Roy E. L. Watson, M.A., PH.D. (*Toronto*), Associate Professor and Chairman of Department.

Robert B. Lane, A.B., PH.D. (*Washington*), Associate Professor.

MAJOR AND HONOURS

ANTHROPOLOGY

Major — Second Year: Anthropology 200; Third and Fourth Years: total of 9 units in Anthropology courses numbered 300 or above.

Honours — For admission to Third Year, First or high Second Class standing in Anthropology 200 is required, plus a reading knowledge of French, German, Russian, or Spanish.

SOCIOLOGY

(a) Major — Second Year: Sociology 200. Third and Fourth Years: three courses in Sociology.

(b) Honours — Prerequisites: for admission to the Third Year, a reading knowledge of French, German, or Russian and a First or high Second Class standing in Sociology 200. Third and Fourth Year Course.

COURSES OFFERED

ANTHROPOLOGY

NOTE: Anthropology 200 is given for the general student as well as for those intending to major in Anthropology. Anthropology 200 is prerequisite for all other courses, unless otherwise stated, but may be taken concurrently.

200. (3) **Introduction to Anthropology**

The origins of man and culture; the nature of race; races of mankind. The comparative study of cultural institutions such as social structure, language, art, religion.

Dr. Lane.

(3-0; 3-0)

300. (3) **Comparative Social Organization**

The nature, forms, and functions of basic social institutions with primary emphasis upon the family, kinship, and kinship-based groupings. Particular attention is given

to non-western (European or European derived) societies. Same course as Sociology 300.

Dr. Lane. (3-0; 3-0)

311. (3) **Indians of the Pacific North West**

Native cultures of the Pacific North West 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. Prerequisite: Introductory Anthropology or Sociology or by permission. (3-0; 3-0)

321. (3) **Introductory Linguistics**

Same as Linguistics 300.

400. (3) **Anthropological Theory**

A survey of traditions of theory in anthropology, of principle concepts utilized in the field, and of major contributors to the development of the field.

Dr. Lane. (3-0; 3-0)

430. (3) **Social Change**

General theory of cultural evolution and social change. The impact of Western cultures upon the native peoples of Africa, Asia, the Pacific and the Americas. (Not offered 1964-65). (3-0; 3-0)

SOCIOLOGY

Sociology 200 is a prerequisite for all other courses unless otherwise indicated.

200. (3) **Introduction to Sociology**

A general introduction to the sociological analysis of selected topics (such as values, work, stratification, kinship and socialization, particular social roles and the problem of national character) which together would constitute a broad description of a large scale society.

Dr. Watson. (3-0; 3-0)

300. (3) **Comparative Social Organization**

The nature, forms, and functions of basic social institutions with primary emphasis upon the family, kinship, and kinship-based groupings. Particular attention is given to non-western (European or European derived) societies. Same course as Anthropology 300.

Dr. Lane. (3-0; 3-0)

301. (3) **Social Deviation**

Forms, types and classes of social deviance; social roles of deviants; public attitudes toward deviation and non-conformity; problems resulting from social deviation; punishment and treatment, arrest and cure.

Prerequisite: Sociology 200.

310. (3) **Small Groups**

Analysis and discussion of field studies and laboratory experiments on small groups in various settings; the contribution of this research to the development of theory.

Texts: To be announced. (3-0; 3-0)

315. (3) **Social Stratification**

The various dimensions of class in modern society, such as class consciousness, status groups, power, social mobility; the consequences of these.

Texts: To be announced.

Dr. Watson. (3-0; 3-0)

320. (3) **Sociology of Occupation**

Attitudes to work, similarities and differences between occupations; the nature of professions; the contrast between jobs and careers.

Texts: To be announced.

Dr. Watson. (3-0; 3-0)

DEPARTMENT OF ASTRONOMY

Mrs. Jean K. Petrie, B.S.C. (*Alberta*), PH.D. (*Michigan*), Part-time Lecturer.
A. H. Batten, B.S. (*St. Andrew's*), PH.D. (*Manchester*), Part-time Lecturer.
Colin D. Scarfe, B.S.C., M.S.C. (*Brit. Col.*), Lecturer.

COURSES OFFERED

120. (3) **Elementary Astronomy**

An introductory course, dealing with the solar system, the sun, the moon, the planets, comets and meteors; coördinate systems; the nature of light; astronomical instruments; the physical nature of stars and stellar systems; practical work on the identification of stars and constellations; historical and philosophical implications of astronomy; discussions of current astronomical studies and discoveries. Prerequisite: Mathematics 91 and Physics 91.

Text: Baker, *Astronomy* (7th ed.).

(3-2; 3-2)

300. (3) **Fundamental Astronomy and Elementary Astrophysics**

Spherical trigonometry and coördinate systems; the effects of refraction, annual parallax, aberration, precession and nutation on the apparent position of a star; planetary motions and orbits; other problems of celestial mechanics. Observed characteristics of stars; physical interpretation of stellar spectra; stellar structure; stellar evolution. Prerequisites: Astronomy 120, Mathematics 220 or 221 and Physics 211. The Mathematics and Physics courses may be taken concurrently.

Text: Smart, *Spherical Astronomy*.

References: Kurth, *Introduction to the Mechanics of the Solar System*; Russell, Dugan and Stewart, *Astronomy, Volume II*; Hynek (Editor), *Astrophysics*. (3-0; 3-0)

DEPARTMENT OF BACTERIOLOGY

Mrs. Anne Johnston, M.S.C. (*McGill*), Part-time Lecturer.

COURSES OFFERED

100. (3) **Introductory Bacteriology**

History of bacteriology; bacteria in nature; classification of bacterial forms; methods of culture and isolation; relation of bacteria to agriculture, industry, veterinary science, public health and sanitation. Prerequisite: Chemistry 100 or 102, which may be taken concurrently. This course is prerequisite to all other courses in the Department.

Texts: To be announced.

Mrs. Johnston.

(2-3; 2-3)

DEPARTMENT OF BIOLOGY

W. Gordon Fields, B.A. (*Brit. Col.*), A.M., PH.D. (*Stanford*), Professor and Head of Department.

Derek Victor Ellis, B.S.C. (*Edin.*), M.S.C., PH.D. (*McGill*), Associate Professor.

Arthur R. Fontaine, B.S.C. (*McGill*), D. PHIL. (*Oxon.*), Associate Professor.

Alan Percival Austin, B.S.C., PH.D. (*Wales*), Assistant Professor.

David J. Ballantyne, B.COM. (*Brit. Col.*), M.S. (*Wash. State*), PH.D. (*Maryland*), Assistant Professor.

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

John N. Owens, B.S. (*Portland State*), M.S., PH.D. (*Oregon State*), Assistant Professor.
 Lynwood S. Smith, M.Sc., PH.D. (*Wash.*), Assistant Professor.
 Marcus A. M. Bell, B.S.F. (*Brit. Col.*), M.F. (*Yale*), Instructor.
 Arthur A. MacKay, B.Sc. (*New Brunswick*), Lecturer.
 G. Clifford Carl, M.A. (*Brit. Col.*), PH.D. (*Toronto*), Part-time Lecturer.
 Marion D. Fontaine (Mrs. A. R.), M.Sc. (*McGill*), B.Sc. (*Oxon.*), Honorary Research Associate and Part-time Lecturer.
 K. Diane Vaughan (Mrs. F. W.), B.A., M.D. (*Brit. Col.*), Part-time Lecturer.
 Harriet M. Blanchard (Mrs. E. W.), B.A. (*Calif.*), M.Sc., PH.D. (*Iowa*), Laboratory Instructor.
 Mary M. Dennis (Mrs. D. D.), M.S.A. (*Brit. Col.*), Laboratory Instructor.
 Sheila Duff, B.Sc. (*McGill*), M.Sc. (*Dalhousie*), Laboratory Instructor.
 Peter W. Elliott, B.Sc. (*Brit. Col.*), Laboratory Instructor.
 Robert M. Hunt, B.A. (*Brit. Col.*), Laboratory Instructor.
 Diana Nelson, B.A. (*Brit. Col.*), Laboratory Instructor.
 Bela Sivak, B.Sc.F. (*Sopron*), Laboratory Instructor.
 Josephine F. L. Hart (Mrs. G. C. Carl), M.A. (*Brit. Col.*), PH.D. (*Toronto*), Honorary Research Associate.

MAJORS AND HONOURS

BIOLOGY

Major — First and Second Years: Botany 105, Zoology 105. Third and Fourth Years: total of 9 units in biological courses selected in consultation with the Department.

BOTANY

Major — First and Second Years: Botany 105 and 205; Third and Fourth Years: a total of 9 units in Botany courses numbered 300 or above, approved by the Department.

ZOOLOGY

Major — First Year: Zoology 105; Second Year: Zoology 202; Third and Fourth Years: 6 units from the general courses in Zoology, and 3 units from the special courses in Zoology. One of Biology 304, 332-33, or 402 may be included as a special course.

Honours — First Year: Zoology 105, English 100, Mathematics 120 or 121, Chemistry 102, Language: one of French, German or Russian. Second Year: Zoology 202, Physics 101, Chemistry 224 or 233, Botany 105, Language (advised), non-science elective.

Third Year: Zoology 301, Zoology 302, Zoology 303, Mathematics 220 or 221 (advised), and 6 units selected from Biology, Botany, Geology, Chemistry, or a non-science field as advised. Fourth Year: Biology 332, Zoology 400, Biology 320, and 6 units of biological courses numbered 300 or above, chosen in consultation with the Department, Zoology 449.

COURSES OFFERED

BIOLOGY

Biology 105 is planned for students who intend taking no other courses in Biology, Botany, or Zoology. It is *not* prerequisite to Botany 105, Zoology 105, or any course in Biology.

105. (3) Fundamentals of Biology

The principles of biology with emphasis upon its relation to man, Characteristics of living things; life processes; plants and animals; heredity and evolution; environ-

mental relationships. Credit will not be given both for this course and Biology 100 (Senior Matriculation).

Texts: To be announced.

Dr. Owens. (3-3; 3-3)

304. (3) **Biometrics**

Introduction to statistical analysis and design of biological experiments. Tests of significance, regression and curve fitting, analysis of variance, experimental designs.

Text: Li, *Introduction to Statistical Inference*.

Dr. Ballantyne. (2-2; 2-2)

320. (3) **General Ecology**

Methods and principles of ecology; plant and animal communities; bioecology. Laboratory and field work. Prerequisites: Botany 105, Zoology 105.

Text: Odum, *Fundamentals of Ecology*, second edition.

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

332. (2) **Introduction to Genetics**

A course of lectures serving as an introduction to the principles, methods, and applications of genetics. Time will be devoted to some consideration of heredity in man. Prerequisite: Botany 105 or Zoology 105.

Text: Sinnott, Dunn and Dobzhansky, *Principles of Genetics*.

Dr. Fontaine. (2-0; 2-0)

333. (1) **Laboratory in Introductory Genetics**

Designed for students who wish laboratory work in the principles, methods, and applications of genetics. Planned to supplement Biology 332 which must be taken either concurrently or previously. Prerequisites: Botany 105 or Zoology 105.

Texts: Demerec, *Drosophila Guide*; Gardner, *Genetics Laboratory Exercises*.

Dr. Fontaine. (0-2; 0-2)

402. (3) **Cell Biology**

Introductions to the problems and recent advances in the study of the ultrastructure, physiology, and differentiation of cells. Laboratory work consists of training in basic microtechnique, cyto- and histochemistry, and techniques of cell physiology. Prerequisite: a course in organic chemistry and biological courses acceptable to the instructor.

Texts: To be announced.

Dr. Fontaine. (2-4; 2-4)

406. (3) **Marine Ecology**

A study of the relationships between marine organisms and their environment. Lectures, laboratory and field work. Prerequisite: Biology 320.

Texts: To be announced.

(2-4; 2-4)

BOTANY

105. (3) **Introduction to Botany**

General perspective of the plant kingdom, physiological anatomy, ecological relations, and developmental trends.

Text: Hill, Overholts, Pop, Grove, *Botany, A Text-Book for Colleges*, 1960.

(3-3; 3-3)

205. (3) **Morphology of Plants**

A survey of the plant kingdom with emphasis on comparative and evolutionary features. Prerequisite: Botany 105.

Texts: To be announced.

Mr. Bell. (2-3; 2-3)

315. (3) **Introductory Mycology**

Morphology and taxonomy of fungi. Prerequisite: Botany 105. (Not offered 1964-65).

Text: To be announced. (1-4; 1-4)

331. (3) **Introductory Plant Physiology**

Introduction to physiological processes of plants. Photosynthesis, transpiration, absorption, enzymes, respiration, plant hormones, and growth. Prerequisites: Botany 105, Chemistry 101 or 102.

Text: Meyer, Anderson and Bohning, *Introduction to Plant Physiology*.

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

342. (3) **Plant Anatomy and Microtechnique**

Study of the development and organization of plant tissues and organs. Techniques in the preparation of slides for anatomical study; microphotography. Prerequisite: Botany 105.

Text: Esau, *Anatomy of Seed Plants*.

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

404. (3) **Toxonomy of Vascular Plants I**

Prerequisite: Botany 205.

Texts: To be announced.

Mr. Bell. (1-4; 1-4)

411. (3) **Phycology**

Introduction to the systematics of the algae; first term emphasis on freshwater forms; second term emphasis on marine groups. Prerequisite: Botany 205.

Text: To be announced. (1-4; 1-4)

448. (1-3) **Directed Studies**

In special cases and with the approval of the Department, a student in attendance may carry on directed studies to supplement another course in the Department.

ZOOLOGY

General Group:

105. (3) **General Zoology**

An introduction to animal biology; structure, function, evolution and classification of animals. This course is prerequisite to all other courses in Zoology unless specifically excepted, and to most courses in Biology.

Text: Storer and Usinger, *General Zoology*, Third Edition. (3-3; 3-3)

202. (3) **Vertebrate Zoology**

Comparative anatomy; evolution and phylogeny of the vertebrates; dissection of representative forms.

Texts: Romer, *The Vertebrate Body*, Second Edition; Weichert, *Representative Chordates*, Second Edition. (2-3; 2-3)

301. (3) **Invertebrate Zoology**

Morphology; taxonomy; life histories of invertebrates with special reference to marine forms. Prerequisite: Zoology 202.

Texts: Borradaile, Potts, Eastham, Saunders, *The Invertebrata*, New Edition; Bullough, *Practical Invertebrate Anatomy*.

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

302. (3) **Microanatomy**

Morphological and physico-chemical organization of the cell, description of the fundamental tissues; introductory embryology with an emphasis on causal principles of development.

Texts: Bloom and Fawcett, *A Text-book of Histology*; B. M. Patten, *Foundations of Embryology*. (2-3; 2-3)

303. (3) **Vertebrate Physiology**

Introductory organ physiology. Prerequisite: First Year Chemistry.

Texts: Guyton, *Text-book of Medical Physiology*, Second Ed.; Zoethout, *Laboratory Experiments in Physiology*, 1954.

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

400. (3) **Principles and History of Biology**

Lectures and seminar on the principles of biology, history and recent advances.

Texts: Singer, *A History of Biology*, 3rd ed.; Dampier, *A Shorter History of Science*.

Dr. Hagmeier. (2-0; 2-0)

Special Group:

414. (2) **Marine Invertebrate Zoology**

General problems in ecology, morphology and physiology of marine invertebrates. Prerequisite: Zoology 301 or equivalent and consent from the instructor. (Not offered 1964-65).

Texts: To be announced (1-3; 1-3)

416. (3) **Biology of the Vertebrates**

The evolution and major features of the terrestrial vertebrates. The form and function of terrestrial vertebrates as related to their distribution and abundance. The laboratory part of the course includes the classification, life histories, and ecology of terrestrial vertebrates with particular attention to those of British Columbia.

Texts: To be announced.

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

430. (3) **Physiology of Marine Animals**

Introductory comparative physiology; an experimental approach to study of physiological functions of invertebrate and vertebrate marine animals.

Texts: To be announced.

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

448. (1-3) **Directed Studies in Zoology**

449. (3) **Zoology Tutorial**

Scientific methods of inquiry, organization of research material, use of literature, rules of nomenclature, preparation of manuscripts and illustrative materials, microscopy. Directed investigation of a descriptive problem requiring a written scientific report of the findings. (For Honours students only).

DEPARTMENT OF CHEMISTRY

Lewis J. Clark, B.A. (*Brit. Col.*), M.Sc. (*Washington*), Professor and Head of Department.

Stephen A. Ryce, B.A., Ph.D. (*Brit. Col.*), Associate Professor.

William J. Wallace, B.A. (*Brit. Col.*), Ph.D. (*Purdue*), Associate Professor.

Miss Wilma E. Elias, M.A. (*Sask.*), Ph.D. (*Brit. Col.*), Assistant Professor.

Neil Stewart Isaacs, B.Sc., Ph.D. (*Southampton*), Associate Professor.

Alexander D. Kirk, M.Sc., Ph.D. (*Edinburgh*), Assistant Professor.

Harry Lynton, B.Sc. (*London*), Ph.D. (*Leeds*), Assistant Professor.

Donald J. MacLaurin, B.A.Sc. (*Brit. Col.*), M.Sc. (*Lawrence*), P.Eng. (*Brit. Col.*), Assistant Professor.

Frank Price Robinson, A.B. (*Fisk*), Ph.D. (*Alberta*), Instructor.

H. Altan Acara, B.Sc., M.Sc., Ph.D. (*Istanbul*), Laboratory Demonstrator.

MAJOR AND HONOURS

Major — First Year: Chemistry 102, Mathematics 120 or 121, Physics 101 (may be taken in Second Year by students also majoring in Biology). Second Year: Chemistry 224, Chemistry 233 (may be postponed to Third Year), Mathematics 220 or 221, Physics 211. Third or Fourth Years: Chemistry 326, Chemistry 334, Chemistry 344. Chemistry 314 is strongly recommended.

NOTE: Permission of the Department is required to take Chemistry courses numbered 400 and above.

Honours — Students electing Honours in Chemistry must obtain written approval at the end of their First Year of their course programme from the Head of the Department. First Year: Chemistry 102, Mathematics 120 or 121, Physics 101. (A reading knowledge of Russian, German or French is highly desirable.) Second Year: Chemistry 224 and 233, Mathematics 220 or 221, Physics 211 and six additional units in consultation with the Department. Third Year: Chemistry 314, 326, 334, 344, 399, Mathematics 222 or 223 or 330 or 331, Physics 322. Fourth Year: Chemistry 424, 435, 445, 477, 499 and six additional units in consultation with the Department. Candidates for Honours may be required to take an oral examination at the end of their final year.

NOTE: Except under special circumstances, a First Year average of 65%, with 70% in Chemistry 102, will be required for candidates for the Honours Programme. A student who fails to maintain Honours standing in any year must withdraw from Honours. Such a student may apply, however, for admission to the Major programme in Chemistry.

COURSES OFFERED

Students who have not passed Chemistry 91 or its equivalent must consult the Department before registering for Chemistry 100 or 102.

100. (3) General Chemistry

Elementary atomic structure, periodic table, valency concepts, chemical calculations, elementary nuclear and organic chemistry. The course is offered to students as a laboratory science elective and to those proceeding to the fields of nursing and home economics. Chemistry 100 is *not* acceptable as a prerequisite for any subsequent chemistry courses, with the exception of Chemistry 230. (3-3; 3-3)

102. (3) General Chemistry

Introduction to the fundamental theories, periodic table, chemical calculations, valency concepts, elementary nuclear chemistry. Corequisites: Mathematics 120 or 121 and Physics 101. (Biology majors may be advised to defer Physics 101 to their second year.)

Text: *Sienko and Plane*, 2nd edition.

(3-3; 3-3)

204. (3) Physical-Inorganic and Analytical Chemistry

Systematic inorganic chemistry, properties of matter from a molecular standpoint, equilibria in solution, introduction to physical chemistry. Prerequisite: Chemistry 102. Credit will not be given for both Chemistry 224 and 204. Chemistry 204 is not acceptable as a prerequisite for third or fourth year chemistry courses. (3-4; 3-4)

224. (3) Analytical, Inorganic, and Physical Chemistry

Presentation of the fundamental principles in the light of modern theory. The laboratory course is designed to illustrate these principles and also covers gravimetric and volumetric analysis. Prerequisite: Chemistry 102; corequisites: Mathematics 220 or 221 and Physics 211. (Students also taking the major in Biology should consult the departments concerned.) (3-4; 3-4)

230. (3) Introduction to Organic Chemistry

A terminal course dealing with fundamental principles of organic chemistry as well as applications and uses of organic substances. Prerequisite: Chemistry 100 (102 with permission from the Department). Credit will not be given for both Chemistry 230 and 233. This course is intended for students entering Dentistry, Forestry, Home Economics, Nursing, Pharmacy, etc. (3-3; 3-3)

233. (3) **Organic Chemistry**

Fundamental principles of the chemistry of aliphatic and aromatic compounds. Corequisite or prerequisite: Chemistry 224. (3-3; 3-3)

314. (2) **Instrumental Analysis**

An introduction to modern methods of chemical analysis including gas chromatography, electrochemical methods, infra-red and ultra-violet spectrophotometry, mass spectrometry, X-ray methods, activation analysis. Prerequisite: Chemistry 224. (1-4; 1-4)

326. (3) **Structure and Reactions in Inorganic Chemistry**

Solid phase ionic species, solution phenomena, stability of compounds, complex compounds. Prerequisites: Chemistry 224 and 344 (the latter may be taken concurrently). (3-0; 3-4)

334. (3) **Physical-Organic Chemistry**

Modern theories of organic chemistry. General principles of physical organic chemistry. Electrical and steric factors in organic compounds; chemical, kinetic, steric, isotopic criteria of reaction mechanisms and consideration of certain mechanistic types. Prerequisites: Chemistry 233 and 344 (the latter may be taken concurrently). The laboratory course will be in organic qualitative analysis. (3-4; 3-0)

344. (3) **Physical Chemistry**

Kinetic theory of gases, thermodynamics, thermochemistry, atomic spectra, elementary quantum theory, chemical kinetics, solutions, phase equilibria, electrochemistry. Prerequisites: Chemistry 224, Physics 211, Mathematics 220 or 221. Corequisite for students enrolled in the Chemistry Honours programme: Physics 322, Mathematics 222 or 225 or 330 or 331. (3-3; 3-3)

399. (1) **Research Participation and Seminar**

Introduction to special techniques and departmental research. Seminar report. For Chemistry Honours students only. (0-2; 2-0)

424. (3) **Advanced Physical-Inorganic Chemistry**

Mechanisms of reactions, including substitution, oxidation-reduction, catalysis. Prerequisites: Chemistry 326, 344. (3-0; 3-0)

435. (3) **Advanced Organic Chemistry**

Topics to be selected from heterocyclic chemistry, alicyclic chemistry, conformational analysis, modern methods and reagents, metal-organics, spectrometric methods in organic chemistry, further reaction mechanisms, natural products, etc. Prerequisite: Chemistry 334. (3-4; 3-4)

445. (3) **Advanced Physical Chemistry**

Thermodynamics, elementary statistical mechanics, electrochemistry, molecular spectroscopy, chemical kinetics, photochemistry, surface chemistry. Prerequisites: Chemistry 344, Mathematics 222 or 223 or 330 or 331. (3-4; 3-4)

477. (1) **Nuclear and Radio Chemistry**

Nuclear structure and disintegration, kinetics of radioactive decay, natural radioactivity, nuclear reaction, radiation detection and measurement, nuclear counting, artificially produced elements, isotopic tracers in chemical applications. (1-0; 1-0)

499. (2) **Thesis**

Experimental research under the direction of staff members. (0-6; 0-6)

DEPARTMENT OF CLASSICS

Peter L. Smith, B.A. (*Brit. Col.*), M.A., PH.D. (*Yale*), Associate Professor and Chairman of Department.

John Carson, M.A. (*Oxon.*), Associate Professor.

Geoffrey J. D. Archbold, B.A. (*Brit. Col.*), M.A. (*Cincinnati*), Assistant Professor.

Mrs. Barbara S. Efrat, B.A. (*Pembroke Coll.*), M.A. (*Brown*), Part-time Lecturer.

MAJORS AND HONOURS

(a) Major (Greek) — First and Second Years: two courses in Greek; Third and Fourth Years: 9 units in Greek, or 6 units in Greek plus 3 units in Classical Studies.

(b) Major (Latin) — First and Second Years: two courses in Latin; Third and Fourth Years: 9 units in Latin courses numbered above 300.

(c) Honours (Greek, Latin, or Classics) — The Department of Classics is not offering an Honours programme in the session 1964-65. First and Second Year students who are contemplating Honours should consult the Department.

COURSES OFFERED

CLASSICAL STUDIES

A knowledge of the Greek and Latin languages is not required for the following courses, which may be taken by Second Year students. Three units of credit in the Department of History will be given for Classical Studies 331.

315. (3) Greek Epic and Drama

Study, in English translation, of the epic poems of Homer and Hesiod; an introduction to the Greek theatre and the reading of representative plays of Aeschylus, Sophocles, Euripides, and Aristophanes.

Texts: Homer, *Iliad*, trans. R. Lattimore; Homer, *Odyssey*, trans. R. Fitzgerald; Hesiod, *Works and Days*, *Theogony*, trans. R. Lattimore; *Complete Greek Tragedies*, ed. Grene and Lattimore, vols. I, III, V; Aristophanes, *Four Comedies*, trans. Dudley Fitts.

Dr. Smith.

(3-0; 3-0)

331. (3) Ancient History

The rise of the Greek city-states; special emphasis on the political, economic, and cultural achievements of the fifth and fourth centuries B.C.; 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.

Texts: Herodotus, *The Histories* (Penguin); Thucydides, *The Peloponnesian War* (Penguin); N. G. L. Hammond, *A History of Greece to 322 B.C.*; M. Rostovtzeff, *Rome*.

Mr. Archbold.

(3-0; 3-0)

GREEK

Greek 200 is open to students who have completed Greek 100 or its equivalent, and is a prerequisite to Greek 320 or 330.

100. (3) Beginners' Greek

An introductory study of the ancient Greek language, and a consideration of some of the main facets of Greek civilization.

Mr. Carson.

(4-0; 4-0)

200. (3) **Introduction to Greek Literature**

Review and further study of the Greek language; selected readings in classical Greek literature, including a complete dialogue by Plato.

Mr. Archbold. (4-0; 4-0)

320. (3) **Homer**

An examination of the Greek epic tradition, and a careful reading of portions of the *Iliad* and the *Odyssey*.

Mr. Archbold. (3-0; 3-0)

330. (3) **Greek Drama**

The historical development of the Greek theatre; study of selected plays of Aeschylus, Sophocles, Euripides, and Aristophanes. (Not offered 1964-65) (3-0; 3-0)

LATIN

90 (3) **Beginners' Latin**

For students with no previous knowledge of Latin. A basic introduction to the Latin language, with elementary readings in Roman literature. (4-0; 4-0)

110. (3) **First Year University Latin**

Prerequisite: Latin 20 or Latin 90 (Second Class or Pass). Review of basic Latin grammar; practice in prose composition; selected readings in Latin literature and an introduction to Roman civilization.

Mr. Carson. (4-0; 4-0)

120-210. (3) **Introduction to Latin Literature**

Prerequisite for Latin 120: Latin 92 or Latin 90 (First class); prerequisite for Latin 210: Latin 110. A survey of the major types of Latin literature, with readings in Latin prose and poetry from Plautus to Saint Augustine. Prose composition and sight translation by special assignment.

Dr. Smith. (4-0; 4-0)

220. (3) **Note**

For the Session 1964-65, students who wish credit for Latin 220 should register for either Latin 320 or 330.

320. (3) **Vergil**

A study of the *Eclogues*, *Georgics*, and *Aeneid*; an evaluation of Vergil's place in the classical tradition.

Dr. Smith. (3-0; 3-0)

330. (3) **Roman Philosophy**

A study of the development of philosophy at Rome, with an emphasis upon Lucretius' *De Rerum Natura* and Cicero's philosophical works.

Mr. Carson. (3-0; 3-0)

340. (3) **Lyric and Elegy**

A critical reading of the major Latin lyric and elegiac poets, including Catullus, Horace, Tibullus, Propertius, and Ovid. (Not offered 1964-65). (3-0; 3-0)

350. (3) **Roman Historians**

A study of Latin historiography; readings from Cicero, Sallust, Livy, and Tacitus. (Not offered 1964-65). (3-0; 3-0)

NOTE: Latin courses numbered 300 and above will include practice in prose composition and sight translation.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

G. Reid Elliott, B.A. (*Sask.*), M.A., PH.D. (*Toronto*), Professor and Head of Department.

Neil A. Swainson, B.A., B.ED., M.A. (*Brit. Col.*), Associate Professor.

Edgar S. Efrat, B.A. (*Reed Coll.*), M.A., PH.D. (*Texas*), Assistant Professor.

I. D. Pal, M.A. (*Panjab*), M.SC. (*London*), PH.D. (*McGill*), Assistant Professor.

Colin H. Jones, B.A. (*Univ. College of Wales*), M.A. (*Montana State*), Instructor.

Robert W. McQueen, B.COM. (*Brit. Col.*), C.A., Part-time Lecturer in Commerce.

ST. CLAIR LESSEUR (P. A. O.)

MAJORS AND HONOURS

ECONOMICS

Students planning to take a Major or an Honours Course in Economics should choose their courses for the Third and Fourth Years in consultation with the Department. All such students must take either Economics 100 or Economics 321 and must take Economics 303.

(a) Major—Admission to the Third Year on completion of Economics 200. Mathematics 204 is recommended. Third and Fourth Years: Economics 303 and 6 additional units in courses numbered 300 and above, of which 3 units may be in Economics 321.

(b) Honours—Admission to the Honours Course by permission of the Department. Application should be made at the end of the Second Year. Applicants will be expected to have achieved at least Second Class standing in Economics 200. Students will be expected to maintain at least a Second Class average in the Economics courses taken. Economics 200; Mathematics 120 or 121; a reading knowledge of French, German, Russian, or Spanish. Third and Fourth Years: Mathematics 204 (if not previously completed), Economics 300, 303, and 450, and 12 additional units. Mathematics 220 or 221 is recommended as an elective in the Third Year. Second Class standing or higher in Economics 450 will be required for Honours.

POLITICAL SCIENCE

(a) Major—Required Courses: Pol. Sc. 200 and Pol. Sc. 300. Pol. Sc. 200 should be completed before registration in Third and Fourth Year courses, but permission to take it and one other concurrently may be granted by the Department. Third and Fourth Years: 6 units numbered above 300.

(b) Honours—Admission to the Third Year by permission of the Department. Applicants should have attained at least Second Class standing in Political Science 200 and should have a reading knowledge of French, German, Russian, or Spanish. Students are advised to take Economics 200 and Philosophy 100. Second Class standing in the Third Year is a prerequisite for admission to the Fourth Year. Third and Fourth Years: 21 units, nine of which shall be Political Science 300, 400, and 450.

COURSES OFFERED

ECONOMICS

Economics 200 is a prerequisite for all Third and Fourth Year courses except Economics 321. Economics 300 is a prerequisite for all courses numbered 400 and above.

100. (3) Economic History

A survey of the evolution of economic institutions and an examination of the origins of economic society, with special emphasis on the economic and social aspects of Greek and Roman civilizations, the economic development of Western Europe, North

- American industrial development, and some recent economic changes in the world.
Text: Heaton, *Economic History of Europe*, Rev. Ed.; supplementary texts to be announced.
Dr. Pal. (3-0; 3-0)
200. (3) **Principles of Economics**
The institutions and processes involved in the production and distribution of wealth; basic determinants of prices and costs; the determinants of income and employment; international trade. Prerequisite: First Year standing.
Text: Bellan, *Principles of Economics*, Rev. Ed.
Dr. Elliott. (3-0; 3-0)
300. (3) **Modern Economic Theory**
Theories of demand and production; distribution theory and problems of factor prices; analysis of national income and employment.
Text: To be announced.
Dr. Pal. (3-0; 3-0)
303. (3) **History of Economic Thought**
The development of economic analysis during the last two centuries.
Text: Roll, *History of Economic Thought*, Third Ed.
Dr. Elliott. (3-0; 3-0)
308. (3) **Money and Economic Activity**
The influence of money on economic activity in closed and open economics; functions of financial institutions, problems of instability, monetary control, international payments and liquidity.
Texts: To be announced.
Mr. Jones. (3-0; 3-0)
321. (3) **The Economic History of Canada**
Special emphasis on the growth of the Canadian economy in relation to natural resource development, changing market conditions, industrialism, communications and technology.
NOTE: This may be taken as a Second Year Course by students who have achieved at least Second Class standing in the First Year and have obtained the permission of the instructor.
Text: Easterbrook and Aitken, *Canadian Economic History*.
Dr. Elliott. (3-0; 3-0)
400. (3) **Advanced Economic Theory**
Selected topics in micro and macro analysis.
Mr. Jones. (3-0; 3-0)
402. **International Economics**
Theory of international trade, comparative costs and general equilibrium; balance of payments and the problems of international equilibrium; trade policy, international aspects of economic development of under-developed countries.
NOTE: (Not offered in 1964-65).
Text: To be announced.
Dr. Pal. (3-0; 3-0)
411. **Industrial Organization and Public Policy**
Problems of competition and monopoly; relevant public policy, with special reference to Canada.
Text: To be announced.
Mr. Jones. (3-0; 3-0)

412. Theory of Economic Development

Theories of economic growth; experiences of advanced countries; analysis of the problems of the less developed countries.

NOTE: Offered in 1964-65, and alternate years thereafter.

Text: To be announced.

Dr. Pal.

(3-0; 3-0)

450. (3) Readings in Economic History and Economic Theory

Directed readings with a comprehensive written examination.

(0-0; 0-0)

POLITICAL SCIENCE

200. (3) Government of Canada

An introductory course to acquaint the student with the institutions of government in Canada, the historical influences which shaped them, the manner in which they function and interact, and the political processes which surround and influence them. Prerequisite: First Year standing.

Texts: Dawson, *The Government of Canada, 1963*, and topical paperbacks.

Dr. Efrat (Evening Division), Mr. Swainson.

300. (3) History of Political Thought

Evolution of political ideas and various basic concepts of government such as the theory of the state, natural law, divine right of kings, social contract, sovereignty, political obligation and consent. Readings include selections from classics in the field from Plato to Marx.

Text: Sabine, *History of Political Theory*.

301. (3) Comparative Government

A structural and operational analysis of the political institutions and governments of selected countries; a Western European democracy and the government of the U.S.S.R., examined in comparison with the governments and institutions of Canada, the United Kingdom and the United States. Relations between governmental patterns and ideological, economic and social forces are explored.

Prerequisites: Second Year standing, Pol. Sc. 200 or consent of Department.

Texts: Macridis and Ward, *Modern Political Systems — Europe, 1963*; Eckstein and Apter, *Comparative Politics, 1963*.

Dr. Efrat.

302. (3) Public Administration

An introduction to bureaucracy, the theory of administrative organization, decision-making in the bureaucratic environment, personnel administration, administrative responsibility and control, departmental and fiscal management, in Canada, Great Britain and the United States.

Texts: Hodgetts and Corbett, *Canadian Public Administration*; Pfiffner and Pres-tlus, *Public Administration*.

310. (3) Governments of Britain and the United States

The constitutional evolution, the systems of government and the political processes of the United Kingdom and the United States are studied, with frequent comparison to parallel developments in Canada.

Prerequisites: Second Year standing, Pol. Sc. 200 or consent of the Department.

Texts: Johnson, *American National Government*; Stout, *British Government*.

Dr. Efrat.

400. (3) Modern Political Theory

Political doctrines from Hegel to the present day, including anarchism, utopian socialism, democratic socialism, democratic capitalism, Marxian socialism, Leninist and Stalinist communism, fascism. Conflict between democratic and totalitarian ways of life. Readings include selections from the classics in the field. Prerequisite: Pol. Sc. 300 or Philosophy 304 or Honours or Graduate standing.

Text: To be announced.

401. (3) **Federalism**

A senior seminar examining the theory of federal government, and its application to the political structures of Canada, the United States, Australia, Nigeria and Switzerland. Frequent student reports required.

Prerequisites: Pol. Sc. 200, Third Year standing, or consent of the Department.

Texts: Wheare, *Federal Government*, 1963 (paperback); Livingston, *Federalism and Constitutional Change*; Lower, *Evolving Canadian Federalism*.

Dr. Efrat.

403. (3) **Public International Law**

The nature, sources, and sanctions of international law; the notion of nationhood with particular reference to the status of the British Dominions; jurisdiction, nationality, normal relations between states; settlement of international disputes; war; organization of peace after the recent conflict. (Not offered 1964-65).

450. (3) **Readings in Political Science**

Directed readings with a comprehensive written examination.

COMMERCE

Commerce 151 is open only to those students who are permitted to register in the Second Year.

151. (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.

Text: To be announced.

Mr. McQueen.

(3-0; 3-0)

DEPARTMENT OF ENGLISH

Roger J. Bishop, B.A. (*Brit. Col.*), B.L.S., M.A. (*Toronto*), Professor and Head of Department.

John D. Peter, M.A. (*Cantab.*), B.A., LL.B., D.LITT. (*South Africa*), Professor (leave of absence 1964-65).

George Cuomo, B.A. (*Tufts*), M.A. (*Indiana*), Associate Professor.

Burton O. Kurth, B.A. (*Brit. Col.*), PH.D. (*Calif.*), Associate Professor.

Chester L. Lambertson, M.A. (*Alberta*), PH.D. (*Harvard*), Associate Professor.

Robert G. Lawrence, M.A. (*New Brunswick*), PH.D. (*Wisconsin*), Associate Professor.

G. Grant McOrmond, M.A. (*Sask.*), Associate Professor.

Rodney Poisson, M.A. (*Brit. Col.*), PH.D. (*Washington*), Associate Professor.

Miss E. Ann Saddlemyer, B.A. (*Sask.*), M.A. (*Queen's*), PH.D. (*London*), Associate Professor.

Robin Skelton, M.A. (*Leeds*), Associate Professor.

William Benzie, M.A., ED.B. (*Aberdeen*), Assistant Professor.

Richard F. Hampsten, B.A., M.A. (*Western Reserve*), PH.D. (*Washington*), Assistant Professor.

Carl R. D. Hare, M.A. (*Alberta*), DIP. R.A.D.A., Assistant Professor.

John G. Hayman, M.A. (*Oxon.*), M.A. (*Cornell*), PH.D. (*Northwestern*), Assistant Professor.

Robert Hedley, B.ED. (*Alberta*), M.F.A. (*Texas*), Assistant Professor.

Gerald Auchinachie, B.A. (*Brit. Col.*), M.A. (*Toronto*), Instructor.

Paul R. Bettis, B.A. (*Oxon.*), Instructor.

David D. Buchan, M.A. (*Aberdeen*), Instructor.

Miss Joan Coldwell, M.A. (*London*), Instructor.
 Miss Marigold Coleman, B.A. (*Oxon.*), Instructor.
 Miss Margaret Doody, B.A. (*Dalhousie*), B.A. (*Oxon.*), Instructor. (On leave of absence 1964-65).
 George H. Forbes, B.A. (*Brit. Col.*), Instructor. (On leave of absence 1964-65).
 Patrick G. Gleeson, B.A. (*Wash.*), M.A. (*Calif.*), Instructor.
 Bryan N. S. Gooch, B.A., M.A. (*Brit. Col.*), Instructor.
 Richard I. Grant, B.A. (*Univ. College of N. Wales*), Instructor.
 Neville L. Haddock, M.A. (*Birmingham*), Instructor.
 Harry J. C. Hill, M.A. (*Aberdeen*), Instructor.
 Anthony W. Jenkins, M.A. (*Cantab.*), Instructor. (On leave of absence 1964-65).
 Robert G. Johnson, B.Sc. (*St. Peter's*), M.A. (*Purdue*), Instructor.
 William C. Keep, B.A. (*Wash.*), Instructor.
 Miss Jean E. Kennard, B.A. (*London*), Instructor. (On leave of absence 1964-65).
 Alan Mackenzie, M.A. (*Aberdeen*), Instructor.
 Miss Moyra Nisbet, M.A. (*Aberdeen*), Instructor.
 Miss Barbara Schafer, B.A., M.A. (*Brooklyn*), Instructor.
 Michael J. Warren, M.A. (*Oxon.*), M.A. (*Dalhousie*), Instructor. (On leave of absence 1964-65).

MAJOR AND HONOURS

(a) Major — First Year: English 100 (Literature and Composition); Second Year: English 200; Third and Fourth Years: total of 9 units in English courses numbered 400 and above.

(b) Honours — The Honours Programme allows students of proven ability to study English Language and Literature more comprehensively than is possible in the General Programme. Courses range more widely over the whole field of English studies, and the approach within the special Honours course is more intensive. Since such classes are normally small enough to meet as tutorial or seminar groups, Honours work is controlled and closely supervised, but it also makes greater demands on a student's initiative and judgment than work in a General Course. Students who take a special interest in Language or Literature are strongly advised to enroll in the Honours rather than in the General Programme.

Prerequisites for admission to Third Year include a First or high Second Class mark in English 200, and approval of the Head of the Department. Students are advised to take English 245 in their Second Year. In the Third and Fourth Years students are required to take English 438, 440, 446, 447, and to do a graduating essay, 449. (In certain cases credit may be given for the graduating essay). Students are also required to select 15 units from the general course offerings of the Department; six units must be taken outside the Department in an approved field. With approval, an additional three units may be taken outside the Department. Candidates will present evidence by the end of the Fourth Year of a reading knowledge of French, German, Spanish, Russian, Latin or Greek. At the end of the Fourth Year there will be an honours examination stressing particularly the fields of concentration of the individual student.

PREREQUISITES

All students in First Year are required to take English 100 (Literature and Composition). This course is prerequisite to English 200.

English 200 or its equivalent is prerequisite to all English courses above 300.

Every student is required to own a good dictionary, e.g. *The Concise Oxford Dictionary*, *The American College Dictionary*, *Webster's Collegiate Dictionary*, *The Winston Simplified Dictionary*.

FIRST YEAR

100. [3] Literature and Composition

A study of literature in the nineteenth and twentieth centuries, and of the principles of composition. Themes and exercises are required.

Texts: *A Little Treasury of Modern Poetry*, revised edition, ed. O. Williams; Shaw, *Saint Joan*; Shakespeare, *Othello*; short story text to be announced; *Four Great Comedies of the Restoration and Eighteenth Century*; Huxley, *Brave New World*; Steinbeck, *Grapes of Wrath*; Arthur Miller, *Death of a Salesman*; Thouless, *Straight and Crooked Thinking*; R. McKeen Wiles, *Scholarly Reporting in the Humanities*; Composition text to be announced.

Members of the Department.

(4-0; 4-0)

SECOND YEAR

200. (3) Literature and Composition

A study of literature from Wyatt to the end of the Romantic Period, and of the principles of composition. Themes and exercises are required.

Texts: *The College Survey of English Literature*, revised edition, Whiting, et al.; Shakespeare, *Hamlet* and *Henry IV, Part I*; Austen, *Pride and Prejudice*; Fielding, *Joseph Andrews*; Etherege, *Man of Mode*.

Members of the Department.

(3-0; 3-0)

202. (3) Writing

Practice in imaginative writing, with particular attention to the short story, the familiar essay, the novel, the one-act play, and to contemporary verse forms, but with reference also to radio and television forms. Also, candidates must submit for judgment an original manuscript in one of the forms listed above. Prerequisite: English 100.

(3-0; 3-0)

245. (3) Practical Criticism

A seminar course giving practice in individual judgment of literary forms, with some introduction to the principles of criticism. Students will be allowed to select this course only if they have the approval of the Head of the Department.

Texts: To be announced.

(3-0; 3-0)

THIRD AND FOURTH YEARS

300. (3) English Composition

A study of the principles and practice of good writing. *For credit in the Faculty of Education only.*

Texts: *Webster's New Collegiate Dictionary*; *Roget's Thesaurus*; Colville and Koerner, *The Craft of Writing*; Perrine, *Sound and Sense; An Introduction to Poetry*. Composition text to be announced.

Members of the Department.

(3-0; 3-0)

301. (3) Children's Literature

A survey of children's literature from early sources to recent books. An historical approach to the appraisal of books and authors for children. *For credit only in the Faculty of Education.*

Text: Johnson et al, eds., *Anthology of Children's Literature*.

(3-0; 3-0)

400. (3) Advanced English Composition

This course offers students practice in the writing and criticism of essays and prose composition in general. Competent use of the English language is prerequisite. The course is open to certain students in the Faculty of Education, and to others by consent of the Head of the Department.

Texts: A good dictionary (*Webster's Collegiate, The Concise Oxford*); *Roget's Thesaurus*. Composition texts to be announced.

Members of the Department.

(3-0; 3-0)

401. (3) Writing

Advanced practice in imaginative writing, drama, fiction and poetry. Prerequisite: English 202 or the consent of the instructor. (Not offered 1964-65).

(3-0; 3-0)

405. (3) Poetics

The imagination and the poetic process; the emotional element in poetry and the

tests of value; the content of poetry and the nature of poetic truth; poetic form and its varieties, diction, imagery, tone-colour, and metrics.

Texts: To be announced.

Mr. Skelton. (3-0; 3-0)

408. (3) **Elizabethan and Jacobean Literature**

Studies in the non-dramatic literary forms, conventions and ideas of the Renaissance in England. The development of the major types of poetry and prose will be studied in some detail.

Texts: Lamson and Smith, *Renaissance England; The Age of Shakespeare*, ed. Boris Ford.

Dr. Kurth. (3-0; 3-0)

409. (3) **Special Studies in Writing**

Prerequisite: Consent of the instructor.

Mr. Cuomo. (3-0; 3-0)

411. (3) **The Drama to 1642**

Main emphasis upon the major Elizabethan dramatists, including Shakespeare; some attention is given to the influence of Greek and Roman dramatic theory and practice.

Text: Brooke and Paradise, *English Drama, 1580-1642; Medieval and Tutor Drama*, John Gassner, ed., Bantam edition.

Dr. Lawrence. (3-0; 3-0)

413. (3) **Shakespeare**

Lectures on twelve plays.

Text: *Shakespeare, The Complete Works*, ed. G. B. Harrison.

Dr. Poisson. (3-0; 3-0)

424. (3) **Seventeenth-Century Literature, from Donne to Milton**

Studies in the forms, styles and ideas of the major poetry and prose of the later Renaissance in England. (Not offered 1964-65).

Texts: Lamson and Smith, *Renaissance England; Milton, Complete Poetry and Major Prose*, ed. M. Y. Hughes. (3-0; 3-0)

426. (3) **Restoration and Eighteenth-Century Literature**

Particular emphasis will be placed on Restoration Comedy, Dryden, Pope, Swift and Dr. Johnson.

Texts: To be announced.

Dr. Hayman. (3-0; 3-0)

427. (3) **The English Novel**

A study of the major novelists. Required reading: Richardson, *Pamela*; Defoe, *Moll Flanders*; Fielding, *Tom Jones*; Smollett, *Roderick Random*; Sterne, *Tristram Shandy*; Walpole, *Castle of Otranto*; Scott, *Heart of Midlothian*; Austen, *Emma*; Dickens, *Martin Chuzzlewit* and *Great Expectations*; Thackeray, *Vanity Fair*; Meredith, *The Egoist*; Hardy, *Tess of the d'Urbervilles*; Butler, *The Way of All Flesh*; Brontë, *Jane Eyre* and *Wuthering Heights*; Eliot, *Adam Bede*; Trollope, *Barchester Towers*; Conrad, *Lord Jim*; Lawrence, *Sons and Lovers*; Allen, *The English Novel*.

Mr. Bishop. (3-0; 3-0)

429. (3) **American Fiction since 1890**

Texts: To be announced.

Mr. Cuomo. (3-0; 3-0)

430. (3) **The Romantic Period**

Chiefly Wordsworth, Coleridge, Byron, Shelley and Keats.

Texts: To be announced.

Mr. McOrmond. (3-0; 3-0)

431. (3) **Victorian Poetry**

Chiefly Tennyson, Browning, and Arnold. A few weeks devoted to later poetry. (Not offered 1964-65).

Text: *Victorian and Later English Poets*, Stephens, Buck and Snow, ed. (3-0; 3-0)

433. (3) **Modern Period, English and Irish Literature, 1890-1914**

This course is based primarily on the works of Hardy, Housman, Butler, Wells, Galsworthy, Shaw, Wilde, Hopkins, Yeats and Synge. The background of ideas and social forces as revealed through the literature and related arts of the period will receive close attention.

Required reading: Butler, *Erewhon* and *Erewhon Revisited*; Hardy, *Jude the Obscure*; Gerard Manley Hopkins, *Penguin Poetry*; Housman, *Collected Poems*; Shaw, *Major Barbara* and *Three Plays for Puritans*; Synge, *Four Plays and the Aran Islands*; Wells, *Tono-Bungay*; Wilde, *Plays, Prose Writings and Poems*; Yeats, *Collected Poems*; Gaunt, *The Aesthetic Adventure*; Galsworthy, *The Man of Property*.

Dr. Saddlemyer. (3-0; 3-0)

434. (3) **Major Modern Poets of Britain and America**

Texts: To be announced.

Mr. Skelton. (3-0; 3-0)

435. (3) **Canadian Literature**

A survey of the literature in the English tongue, with some attention to major French-Canadian works in translation. Emphasis will be placed on achievements within the past 75 years, with reference to influential movements in the United States and Britain.

Texts: To be announced. (Not offered 1964-65). (3-0; 3-0)

436. (3) **Modern British Fiction**

(Not offered 1964-65.) (3-0; 3-0)

437. (3) **British and American Drama Since World War I**

(Not offered 1964-65.) (3-0; 3-0)

HONOURS COURSES

438. (3) **Old English Literature and the Development of the Language**

An elementary study of Old English language and literature and the history of the language up to modern English.

Texts: To be announced.

Mr. Haddock. (3-0; 3-0)

440. (3) **Chaucer**

Chaucer, his contemporaries and his followers, including a detailed study of Chaucer's major works.

Texts: *The Canterbury Tales*, ed. A. C. Cawley, and Part IV of *Pelican Guide*, Vol. 1; *The Age of Chaucer*, ed. Boris Ford. Other texts to be announced.

Dr. Lambertson. (3-0; 3-0)

446. (3) **Third Year Honours Seminar**

The training of students in value judgments in literature.

Text: Denys Thompson, *Reading and Discrimination*. (3-0; 3-0)

447. (3) **Fourth Year Honours Seminar, History of Ideas**

A seminar in the influence of the main currents of European thought on English literature.

Texts: To be announced.

Dr. Saddlemyer. (3-0; 3-0)

THEATRE

200. (3) Introduction to the Theatre

An examination of the arts of the live theatre. Some practical work in acting and direction will be expected, and a brief survey of the development of western theatre will require the reading of representative plays.

Texts: Albright, Halstead, Mitchell, *Principles of Theatre Art*; H. R. Walley, *The Book of the Play*.

Mr. Hare. (3-3; 3-3)

310. (3) History of the Theatre to 1700

(Not offered 1964-65). (3-0; 3-0)

320. (3) Elementary course in Acting

Prerequisite for Theatre 420.

Texts: To be announced.

Mr. Hare. (3-3; 3-3)

330. (3) Direction and Production

Principles of direction, fundamentals of stage scenery, lighting, and management. Students will be required to direct and stage-manage productions.

Texts: To be announced.

Mr. Hedley. (3-3; 3-3)

FINE ARTS

C. Anthony Emery, M.A. (*Oxon.*), Associate Professor.

COURSES OFFERED

126. (3) Introduction to Art

This course is intended to provide an understanding and appreciation of painting, sculpture and architecture, and to prepare the student for qualified judgment of traditional and contemporary art forms.

Text: To be announced. (3-0; 3-0)

200. (3) History of Painting from Giotto to the Present Day

Text: To be announced. (3-0; 3-0)

EDUCATION FINE ARTS

See page 81 for list of Faculty and staff.

101. (3) History of the Fine Arts

History of music, art and architecture, with emphasis upon the cultural development of mankind through the ages. Appreciation and understanding will be encouraged through illustration and discussion of major works.

Texts: H. W. Janson, *History of Art*, 1962; Homer Ulrich, *Music; A Design For Listening*, 1957. (3-0; 3-0)

300. (3) Introduction to the Plastic and Graphic Arts

Experiment and study of various media of art expression as a basis for advanced work for an art major. This course is an introduction to the four major areas: painting, ceramics, design and print-making. Students will be expected to submit a sketch book of work as part of the final mark. (3-0; 3-0)

301. (3) Drawing and Composition

A basic course in drawing in various media. A study of the fundamentals of composition and picture analysis. Students will be expected to submit a sketch book of work as part of the final mark. (3-0; 3-0)

302. (3) **Drawing and Painting**

Designed to form the basis for any advanced work towards an art major. The fundamentals of both techniques will be explored using still life, figure and landscape. Students will be expected to submit a sketch book of work done outside of class as part of the final mark. (3-0; 3-0)

305. (3) **Design I**

This course will include studio experiment in both two and three dimensional design problems with the purpose of developing a fuller understanding of the fundamental design principles. Prerequisites: Fine Arts 300 and 302 or equivalent courses. (3-0; 3-0)

401. (3) **Painting I**

The skills and techniques of the medium will be developed by experiments and problems. Studio and outdoor subjects will be used. A sketch book must be submitted as part of the final mark. Prerequisites: Fine Arts 300 and 302 or equivalent courses. (3-0; 3-0)

402. (3) **Painting II**

The skills and techniques of the medium will be developed by experiments and problems. Studio and outdoor subjects will be used. A sketch book will be submitted as part of the final mark. Prerequisites: Fine Arts 300 and Fine Arts 302 or equivalent courses. (3-0; 3-0)

404. (3) **Essay or Special Study**

An extensive study of a particular field of Fine Arts or Art Education. Experimental research will be carried out under the direction of Faculty. The essay must be submitted in final form on or before the end of sessional examinations.

405. (3) **Design II**

This course will apply experiment and technique to specific design problems with emphasis on such aspects of design as decoration, industrial design, and fabric design. Prerequisite: Fine Arts 305 or equivalent course. (3-0; 3-0)

415. (3) **Design III**

A special study in an advanced field of design. Prerequisite: Fine Arts 405 or equivalent course. (3-0; 3-0)

DEPARTMENT OF GEOGRAPHY

Bryan H. Farrell, M.A. (*Wash.*), B.A., PH.D. (*N.Z.*), Professor and Head of Department.
Charles N. Forward, M.A. (*Brit. Col.*), PH.D. (*Clark*), Associate Professor.
Charles H. Howatson, M.A. (*Brit. Col.*), Associate Professor.
Woodford Garrigus, A.B. (*Middlebury*), M.A., PH.D. (*Clark*), Assistant Professor.
Eric DeWitt Ross, M.A. (*New Brunswick*), PH.D. (*Edinburgh*), Assistant Professor.
Deane Richard Lycan, B.S. (*Idaho*), A.M. (*George Washington*), Instructor.

MAJOR AND HONOURS

(a) Major — First and Second Year: Geography 101, and any one of the following: Geography 201, 203, 204. Third and Fourth Years: three courses numbered 300 or above, at least one of which must be a regional course (marked R). No more than two regional courses may be taken.

(b) Honours — First and Second years as for Majors. Third and Fourth Years: at least six courses in Geography, the choice of which should be made in consultation with members of the Department of Geography. A graduating essay is required, and at the end of the fourth year a candidate shall submit to a general examination in his major field.

For each year a field trip may be organized which students of certain courses will be expected to attend and for which a moderate fee will be charged. Ample notice of field trips will be given to the students in the courses concerned.

COURSES OFFERED

Geography 101 is one of the elective science courses and is prerequisite to all other geography courses. This prerequisite may be waived by the Department in certain special circumstances.

101. (3) **Introduction to Geography**

An introduction to the viewpoint of Geography, to the geographic study of the physical and human elements in area, to regional interpretation and world patterns and to maps and elementary methods of cartographic analysis. (3-2; 3-2)

201. (3) **Economic Geography**

An analytical survey of the areal distribution of economic activity, regional economies, world patterns of production and exchange, sources and application of energy, and the production of selected commodities.

Dr. Garrigus.

(3-0; 3-0)

203. (3) **Physical Geography**

A study of the elements of weather and climate, the origin and distribution of landforms, the geography of vegetation and major soil groups, mineral and water resources and the geographical significance of the ocean, together with the interrelations of these geographically significant physical elements and their world distributions. Not open to students credited with or enrolled in Geology 200. (Not offered 1964-65). (3-2; 3-2)

204. (3) **Geography of Canada and the United States**

A geographic study of both countries which will include a survey of landforms, climatic characteristics, soils and vegetation, natural resources, population distribution, and primary and secondary industries.

Dr. Forward.

(3-0; 3-0)

301. (3) **Cartography**

A course designed to provide both study and practical experience in the construction and use of various kinds of maps, map projections, diagrams, graphs, cartograms. Special attention will be given to those aspects of cartographic expression most likely to be useful in geographic analysis.

Dr. Garrigus.

(2-2; 2-2)

302. (3) **Climatology**

The elements of climate; meteorological instruments and weather observations; classification and description of climatic regions; climatic anomalies and selected topics in applied and micro-climatology. Prerequisite: Geography 203 or consent of the Department.

Dr. Forward.

(2-2; 2-2)

303. (3) **General Geography**

A survey of various aspects of the field of geography including physical, human and regional. This course with the consent of the Department may be substituted for Geography 101 as a prerequisite to other third and fourth year courses. Not open to students credited with Geography 101. (2-2; 2-2)

304. (3) **The Geography of Population and Settlement**

Population distribution and patterns of settlement; population problems; physical and cultural factors affecting settlement; emphasis placed on map and aerial photograph interpretation. (Not offered 1964-65). (3-0; 3-0)

305. (3) **Urban Geography**

The rise and growth of cities; the process of urbanization; economic base of cities; cities as central places; urban land use mapping; commercial, residential and industrial structure of cities and the urban-rural fringe.

Dr. Forward.

(3-0; 3-0)

307. (3) **Historical Geography**

The geographical significance of the discovery, exploration and colonization of North America with special emphasis to Canada. Geographical settings will be reconstructed for periods of particular historical significance. Prerequisite: History 102 is recommended.

Dr. Ross.

(3-0; 3-0)

308. (3) (R.) **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. (Not offered 1964-65).

(3-0; 3-0)

310. (3) **Industrial Geography**

A systematic geography focussing attention on manufacturing, and on raw materials, transport, energy and markets, in their areal context, and in relation to manufacturing. Emphasis will be placed on geographic analysis of the character of representative manufacturing areas including major manufacturing regions as well as underdeveloped territories. Prerequisite: Geography 201 or consent of Department.

Mr. Lycan.

(2-1; 2-1)

311. (3) **Map and Aerial Photograph Interpretation**

The identification and interpretation of physical and cultural features on maps and aerial photographs and the use of cartographic material, aerial photographs and associated techniques as aids to geography analysis. (Not offered 1964-65). (1-2; 1-2)

312. (3) (R.) **Geography of the Southwest Pacific**

A study of Australia, New Zealand, and the island territories of the Southwest Pacific. Attention will be paid to the geographic implications of the agricultural economy and limited markets of New Zealand, problems associated with the use of Australia's more varied resources, and the difficulties that must be faced in the development of poorly endowed island territories supporting numerous ethnic groups and a wide variety of political administrations.

Dr. Farrell.

(3-0; 3-0)

401. (3) **The Geography of Soils and Vegetation**

The advanced physical geography of the variable character of soils and vegetation in their areal context and their relationship with other edaphic and climatic factors. Prerequisite: Geography 203. (Not offered 1964-65).

(2-2; 2-2)

402. (3) **Quantitative Methods in Geography**

Selected quantitative techniques and their application to areal analysis and specific geographic problems.

Mr. Lycan.

(1-2; 1-2)

403. (3) **Agricultural Geography**

Crop and livestock combinations, farm labour and techniques, land tenure, disposal of products and associated features as they contribute to the individuality of areas, together with a study of the variable character of major agricultural regions. Prerequisite: Geography 201. (Not offered 1964-65).

(3-0; 3-0)

405. (3) **Geography of Transport**

Transport routes, traffic, freight, terminals and carriers; the role of transport in the development and characterization of an area, and a survey of the geographical significance of transport in major world areas together with special reference to the Pacific Basin. (Not offered 1964-65).

(3-0; 3-0)

408. (3) (R.) **Geography of Europe**

A geographic study of the landforms, climatic characteristics, natural resources, population distribution, agriculture and industry of the major regions of Europe.

Dr. Ross.

(3-0; 3-0)

410. (3) (R.) **Geography of Western Canada**

A study of the resources, patterns of development and regions of Western Canada. The emphasis will be upon the developed parts of the Prairie Provinces and British Columbia.

Mr. Howatson,

(3-0; 3-0)

411. (3) **Political Geography**

The significance of the geographical background to political institutions, problems and activities, and the effect of political action upon present day geography. Areas for study will be selected from throughout the world but particular attention will be paid to international problems of current interest. In considering the international relationships of states special reference will be made to Canada. (Not offered 1964-65).

(3-0; 3-0)

412. (3) **Geomorphology**

A geography of landforms including a study of the processes and principles concerned with the development of landscape, types of landforms and their distribution. (Not offered 1964-65).

(2-2; 2-2)

441. (3) **Seminar in Physical Geography**

Prerequisite: one of Geography 203, 302, 401 or 412. (Not offered 1964-65).

(0-0-3; 0-0-3)

442. (3) **Seminar in Human Geography**

Prerequisite: one of Geography 201, 304, 305, 310, 403, 405, 411. (Not offered 1964-65).

(0-0-3; 0-0-3)

443. (3) (R.) **Seminar in Regional Geography**

(Not offered 1964-65).

(0-0-3; 0-0-3)

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; current major developments within special branches of geography, and geography in other countries.

Dr. Farrell.

(0-0-3; 0-0-3)

GEOLOGY

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.

Mr. Howatson.

(2-2; 2-2)

DEPARTMENT OF HISTORY

Sydney G. Pettit, M.A. (*Brit. Col.*), Professor and Head of Department.

Sydney W. Jackman, PH.D. (*Harvard*), F. R. HIST. S., Associate Professor.

C. Anthony Emery, M.A. (*Oxon.*), Associate Professor.

Alfred E. Loft, B.A. (*Brit. Col.*), Assistant Professor.

John C. M. Ogelsby, A.B. (*Stanford*), M.A., PH.D. (*Wash.*), Assistant Professor.

Reginald H. Roy, C.D., M.A. (*Brit. Col.*), Assistant Professor.

W. George Shelton, M.A. (*Man.*), PH.D. (*Penn.*), Assistant Professor.

Miss Charlotte S. M. Girard, B.A. (*Brit. Col.*), B.A., M.A. (*Bryn Mawr*), Lecturer.

James E. Hendrickson, B.A. (*Sask.*), B.ED. (*Alberta*), M.A. (*Oregon*), Lecturer.

MAJOR AND HONOURS

(a) Major — 9 units (three courses) in courses accepted for credit in History, of which at least 6 must be selected from regular departmental offerings. These courses should be selected in consultation with one of the members of the Department from *two* of the following areas of interest: American, British, Canadian, Commonwealth, European. Prerequisites for these areas of interest are as follows — American: History 212 (for 1964-65 this prerequisite may be waived for students planning to major in American history); British and Commonwealth: History 201; Canadian: History 102; European: History 101 or 200.

(b) Honours — Prerequisites for admission to the Third Year include a First or high Second Class standing in History 101 or 200, one of History 102, 201 and 212, and a reading knowledge of French, German, Russian or Spanish. In the last three years candidates will offer at least 51 units. Second Year: 15 units (recommended courses are English 200, French 210 or 220 or the equivalent in German, Russian or Spanish, History 101 or 200 and one of History 102, 201, or 212, if not already taken in the First Year). Third and Fourth Years: *Four* required courses: History 304 or 400, 333, 433, 449; *four* courses in an area of special interest as approved by the Department; two other courses in the Department and two outside the Department.

Students whose standing in Honours History during the Third Year is inadequate may, at the discretion of the Department, be required to discontinue the Honours Course.

An Honours paper will be set at the end of the Fourth Year on the work of the seminars and of the courses studied in the areas of special interest. There will be an oral examination on the field covered in the graduating essay.

NOTES: (1) Students who intend to specialize in History are advised to include in their programme some of the following related courses: Anthropology 200; Economics 100, 200, 321; Geography 201, 303, 307, 410; Philosophy 100, Political Science 200, 300; Sociology 200. (2) A reading knowledge of French, German, Russian or Spanish is useful. (3) All courses numbered above 300 are open to both Third and Fourth Year students.

COURSES OFFERED

101. (3) **Main Currents in Twentieth-Century History**

This course offers a background for contemporary world problems. Essays will be assigned throughout the Session. (Third and Fourth Year students taking this course must attain Second Class standing.)

Text: To be announced.

Staff.

(3-0; 3-0)

102. (3) **History of Canada**

An introductory general course. Essays will be assigned throughout the Session. (Third and Fourth Year students taking this course must attain Second Class standing.)

Texts: McInnis, *Canada, a Social and Political History*, Revised, 1960. Kerr, *A Historical Atlas of Canada*, 1961.

Staff.

(3-0; 3-0)

200. (3) **History of Modern Europe**

A survey of European history from the Renaissance to the First World War. Essays will be assigned throughout the Session. (Third and Fourth Year students taking this course must attain Second Class standing.)

Text: Palmer, *History of the Modern World*, Second Edition.

Staff.

(3-0; 3-0)

201. (3) **History of England**

A survey of British history from the late Anglo-Saxon period to modern times.

Essays will be assigned throughout the Session. (Third and Fourth Year students taking this course must attain Second Class standing.)

Texts: Keith Feiling, *History of England*; G. O. Sayles, *Mediaeval Foundations of England*; E. Jenkins, *Elizabeth the Great*; C. G. Robertson, *Chatham & the British Empire*; L. Strachey, *Emminent Victorians*; W. A. Pantin, *English Church in the 14th Century*; M. Ashley, *The Greatness of Oliver Cromwell*; A. R. Humphreys, *The Augustan World*; Amy Kelly, *Eleanor of Aquitaine*; R. Graves & A. Hodge, *The Long Weekend*.

Dr. Jackman.

(3-0; 3-0)

212. (3) History of the United States

A general survey of the history of the United States from the colonial period to the present. Essays will be assigned throughout the Session. (Third and Fourth Year students taking this course must attain Second Class standing.)

Text: To be announced.

Mr. Hendrickson.

(3-0; 3-0)

303. (3) History of the Canadian West

A survey of Canadian history west of the Great Lakes. One essay is required during the Session. (Not offered 1964-65.)

Text: To be announced.

Mr. Roy.

(3-0; 3-0)

304. (3) Medieval Europe

A survey of medieval history from the fall of the Roman Empire to the thirteenth century. One essay will be assigned during the Session. (Not offered 1964-65).

Text: Thorndike, *The History of Medieval Europe*, Third Edition.

Mr. Pettit.

(3-0; 3-0)

305. (3) The Expansion of Europe in the Atlantic Area

A study of the Spanish and Portuguese in the New World and their struggle against British, French and Dutch penetration. Reports will be assigned during the Session.

Text: Schurz, *This New World*.

Dr. Ogelsby.

(3-0; 3-0)

311. (3) The First British Empire

A survey of the Anglo-American settlements, 1607-1783. Reports will be assigned during the Session. (Not given 1964-65).

Text: Savelle, *The Foundations of American Civilization*.

Dr. Ogelsby.

(3-0; 3-0)

312. (3) History of the United States in the Nineteenth Century

A study of the economic, social, political and cultural development of the United States from the framing of the Constitution to the Spanish-American War. One essay will be assigned during the Session.

Text: To be announced.

Mr. Hendrickson.

(3-0; 3-0)

313. (3) The Rise of Modern Europe, 1300-1648

A survey of the economic, social, political and cultural development of Europe from the late Middle Ages to the Peace of Westphalia. One essay will be assigned during the Session. (Not given 1964-65).

Text: To be announced.

(3-0; 3-0)

314. (3) Europe from Westphalia to Waterloo

A study of the economic, social, political and cultural history of Europe from 1648 to 1815. (Not given 1964-65).

Text: To be announced.

Dr. Shelton.

(3-0; 3-0)

318. (3) **Tudor and Stuart England, 1485-1688**

An intensive study of England during the sixteenth and seventeenth centuries. One essay will be assigned during the Session.

Texts: W. Notestein, *English People on the Eve of Colonization 1603-1630*; M. Chute, *Shakespeare of London*; H. F. M. Prescott, *Mary Tudor*, Macmillan; J. E. Neale, *Queen Elizabeth I*; F. M. Powicke, *Reformation in England*; S. R. Gardiner, *Oliver Cromwell*; G. R. Elton, *Tudor Revolution in Government*; G. P. Gooch, *English Democratic Ideas in the 17th Century*; G. Mattingley, *The Armada*; C. Blitzer, *Commonwealth of England*.

Dr. Jackman.

(3-0; 3-0)

326. (3) **British North America, 1783-1867**

The British colonies in North America from the disruption of the First British Empire to Confederation. One essay will be assigned during the Session. (Not given 1964-65).

Text: To be announced.

(3-0; 3-0)

333. (3) **Third Year Honours Seminar**

The Philosophy of History, methodology, bibliography.

Text: Walsh, *Philosophy of History: An Introduction*.

Staff.

(2-0; 2-0)

400. (3) **Intellectual History of Europe**

A study of movements of thought in Europe. Extensive reading is required. May be taken by Second Year students with special permission of the Department.

Text: To be announced.

Mr. Pettit.

(3-0; 3-0)

403. (3) **History of the American West**

The frontier in American history; the Trans-Mississippi West with emphasis on the Far West. One essay will be assigned during the Session.

Text: To be announced.

Mr. Hendrickson.

(3-0; 3-0)

406. (3) **History of France, 1870-1939**

A study of the economic, social, political and cultural development of France during the Third Republic. One essay will be assigned during the Session.

Text: To be announced.

Miss Girard.

(3-0; 3-0)

411. (3) **Empire and Commonwealth**

A study of British Imperial evolution from the disruption of the First British Empire to the present. Reports will be assigned during the Session.

Text: To be announced.

Dr. Ogelsby.

(3-0; 3-0)

412. (3) **History of the United States in the Twentieth Century**

The economic, social, political, diplomatic and cultural developments in the United States during the present century. One essay will be assigned during the Session. (Not given 1964-65).

Text: To be announced.

Mr. Hendrickson.

(3-0; 3-0)

415. (3) **Europe in the Nineteenth Century**

The evolution of Europe from 1815 to 1914. One essay will be assigned during the Session.

Text: To be announced.

Dr. Shelton.

(3-0; 3-0)

419. (3) **Great Britain Since 1688**

A survey of British history from the Glorious Revolution to the outbreak of the First World War. One essay will be assigned during the Session.

Texts: A. S. Turberville, *English Men & Manners in the 18th Century*; Elie Halevy, *England in 1815*; Lord David Cecil, *Melbourne*; Dorothy George, *England in Transition*; G. M. Young, *Victorian England, Portrait of An Age*; G. Faber, *The Oxford Apostles*; Romney Sedgewick, *Lord Hervey's Memoirs*; George Dangerfield, *The Strange Death of Liberal England*; Arnold Toynbee, *The Industrial Revolution*; John Henry Newman, *Apologia pro Vita Sua*; Percival Spear, *The Nabobs*; Lewis Namier, *Structure of Politics on the Accession of George III.*

Dr. Jackman.

(3-0; 3-0)

420. (3) **The Evolution of the Canadian Constitution**

A study of constitutional development from 1763 to the present. One essay will be assigned during the Session.

Text: To be announced.

(3-0; 3-0)

426. (3) **Canada Since Confederation**

A history of the economic, social and political development of Canada since 1867. Dominion autonomy and Canada's position as a middle power. One essay will be assigned during the Session.

Text: To be announced.

Mr. Roy.

(3-0; 3-0)

428. (3) **Intellectual History of the United States**

A study of the evolution of American culture. This course will be given in the Summer Session, 1964.

Text: To be announced.

Dr. Savelle.

(3-0; 3-0)

433. (3) **Fourth Year Honours Seminar**

British History, 1793-1815.

Text: To be announced.

Mr. Pettit.

(3-0; 3-0)

449. (3) **Graduating Essay in Honours**

Staff.

(3-0; 3-0)

LINGUISTICS

COURSE OFFERED

300. (3) **Intraductory Linguistics**

Text: To be announced.

(3-0; 3-0)

DEPARTMENT OF MATHEMATICS

S. A. Jennings, M.A., PH.D. (*Toronto*), Professor and Head of Department.

Robert T. D. Wallace, M.A. (*Brit. Col.*), Professor.

Fernand E. Deloume, B.A. (*Brit. Col.*), M.A. (*Toronto*), PH.D. (*U.S.C.*), P.ENG. (*Brit. Col.*), Associate Professor.

Mrs. D. Elizabeth Kennedy, M.A. (*Brit. Col.*), Associate Professor.

Mrs. O. Phoebe Noble, B.A. (*Brit. Col.*), Associate Professor.

Robert E. Odch, PH.D. (*Carnegie Inst. of Tech.*), Associate Professor.

Leon Bowden, B.SC. (*London*), B.LITT. (*Oxon.*), Assistant Professor.

Robert Laurence Johnston, B.COM., M.A. (*Brit. Col.*), Assistant Professor.
 Heriman H. Ferns, B.A. (*Sask.*), PH.D. (*Toronto*), Visiting Professor.
 Ian Barrodale, B.SC. (*Univ. College of N. Wales*), Instructor.
 Byron L. Ehle, A.B. (*Whitman*), M.S. (*Stanford*), Instructor.
 David J. Leeming, B.SC. (*Brit. Col.*), M.A. (*Univ. of Oregon*), Instructor.
 H. Paul Smith, B.A., M.ED. (*Brit. Col.*), Instructor.
 Benjamin J. Solomon, B.A. (*Berkley*), M.A. (*Davis*), Instructor.
 Mrs. Eileen Caner, B.SC. (*London*), Part-time Lecturer.
 Mrs. Jean Sargent, B.A. (*Brit. Col.*), PH.D. (*Toronto*), Part-time Lecturer.

MAJOR AND HONOURS

Major — First Year: Mathematics 120 or 121 (see notes 1 and 2 below). Second Year: Students contemplating a major in mathematics must take Mathematics 220 or 221 and are strongly urged to take either Mathematics 222 or 223. Students who failed to take Mathematics 222 or 223 in second year must choose third and fourth year courses in consultation with the Department. Third and Fourth Years: Total of 9 additional units chosen from courses numbered 330 or higher. Students must consult the Department before choosing their courses.

Honours — For honours students in Mathematics at least Second Class standing must be obtained in each of the prescribed Mathematics courses in the undergraduate programme.

Prescribed Courses — First Year: Mathematics 121 (see notes 1 and 2 below), Physics 101. Second Year: Mathematics 221 and 223 which must be taken concurrently, Physics 211. Third and Fourth Years: 20 units chosen as follows: Mathematics 331, 333, 335, 441, 447 and any 6 units chosen from Mathematics 337, 443, 445, 449.

NOTE 1: Students wishing to enter the programmes for either Honours or Major in Mathematics and who have taken either Mathematics 101 or 120 may be required to write a qualifying examination, and to obtain at least second class standing in the qualifying examination. The examination will be written early in September. Further information may be obtained from the Department.

NOTE 2: The provisions concerning Mathematics 121 affect only those students registering in first year in 1964 and in subsequent years.

COURSES OFFERED

FIRST YEAR

Mathematics 91, or its equivalent, is prerequisite to, and may not be taken concurrently with, Mathematics 120 or 121.

120. (3) **Fundamental Mathematics**

Analytic geometry, elementary differential and integral calculus, circular functions, and theory of equations. (4-0; 4-0)

121. (3) **Fundamental Mathematics**

Plane and solid analytic geometry, circular functions, vectors, differential and integral calculus. Prerequisite: 65% in Mathematics 91, and the consent of the Department. Students contemplating a major or honours in mathematics are strongly urged to take Mathematics 121. (4-0; 4-0)

SECOND YEAR

Even numbered courses are primarily for students taking a major in mathematics. The odd numbered courses are primarily for honours students and the topics are covered more rigorously.

200. (3) **The Mathematics of Finance**

Theory of annuities and their application, amortization, sinking funds, depreciation and the valuation of bonds. An introduction to the theory of electronic computation.

Primarily for students in Commerce. Prerequisites: Mathematics 120 or 121 and Commerce 151 (which may be taken concurrently) or the consent of the Department. (3-0; 3-0)

203. (3) **Elementary Mathematics for Teachers**

For credit only in the Faculty of Education.

204. (3) **Elementary Statistics**

Descriptive statistics, introduction to probability and sampling, correlation, index numbers, time series, simple analysis of variance. Prerequisite: Mathematics 120 or 121. (3-2; 3-2)

206. (1) **Introduction to Computer and Programming**

A new course begins each term.

(1-1)

220. (3) **Differential and Integral Calculus**

Additional material beyond that offered in Mathematics 120 or 121 in the Calculus of functions of one variable, elementary calculus of functions of several variables, infinite series, and vectors. Prerequisite: Mathematics 120, 121, or equivalent.

221. (3) **Differential and Integral Calculus**

Additional material in the calculus of functions of one variable, functions of several variables, infinite series, vectors. Prerequisites: at least second class standing in Mathematics 121 or in the qualifying examination, and the consent of the Department. (3-0; 3-0)

222. (3) **Algebra and Geometry**

Theory of equations, polynomials, mathematical induction, binomial theorem, complex numbers, analytic geometry, matrices, determinants, introduction to abstract algebra. Prerequisite: Mathematics 120 or 121. Not open to students who have credit for Mathematics 223. (3-0; 3-0)

223. (3) **Algebra and Geometry**

Theory of equations, polynomials, mathematical induction, binomial theorem, complex numbers, analytic geometry, matrices, determinants, introduction to abstract algebra. Prerequisite: at least second class standing in Mathematics 121 or in the qualifying examination, and the consent of the Department. (3-0; 3-0)

THIRD AND FOURTH YEARS

330. (3) **Advanced Calculus**

Further topics in: Infinite series (including Fourier series); functions of several variables, and vectors. An introduction to ordinary differential equations and an introduction to functions of a complex variable. Prerequisite: Mathematics 220 or 221. (3-0; 3-0)

331. (3) **Advanced Calculus**

Further topics in: Infinite series (including Fourier series), functions of several variables, vectors. Ordinary differential equations and an introduction to the functions of a complex variable. Prerequisite: At least second class standing in each of Mathematics 221 and 223. (3-0; 3-0)

333. (3) **Matrices and Abstract Algebra**

Rings, groups, fields, integral domains, sets, logic, transfinite arithmetic, Galois theory, linear algebra. Prerequisite: Mathematics 222 or 223. (3-0; 3-0)

335. (3) **Real Analysis**

Point-set topology, function theory including differentiation, continuity and series, measure, integration. Prerequisite: Mathematics 220 or 221. (3-0; 3-0)

337. (3) **Modern Geometry**

Topics chosen from projective, differential and non-Euclidean geometries. Prerequisite: Mathematics 220 or 221 and Mathematics 222 or 223. (3-0; 3-0)

441. (3) **Complex Analysis**

Sets of points in complex plane, regular and elementary functions, complex integrals, power series, calculus of residues, analytic continuation, conformal representation. Prerequisite: Mathematics 331. (3-0; 3-0)

443. (3) **Probability and Mathematical Statistics**

Statistical analysis with emphasis on sampling theory and the testing of statistical hypotheses, applications to problems in the sciences, theory and application of computers. Prerequisite: Mathematics 330 or 331. (3-0; 3-0)

445. (3) **Theory and Applications of Differential Equations**

Laplace transforms, existence and uniqueness theorems, autonomous systems, approximate solutions, partial differential equations. Prerequisite: Mathematics 330 or 331. (3-0; 3-0)

447. (2) **Seminar in Mathematics**

Required of all third and fourth year honours students. Credit for this course will normally be given only to those students who obtain an honours degree.

449. (3) **Numerical Analysis**

Finite difference, interpolation, solution of equations, inversion of matrices, calculation of eigenvalues, approximation to integrals, numerical solution of differential equations. Prerequisite: Mathematics 330 or 331 and 222 or 223. (3-0; 3-0)

DEPARTMENT OF MODERN LANGUAGES

W. Harry Hickman, M.A. (*Brit. Col.*), Docteur de l'Université de Paris, Professor and Head of Department.

C. Vyner Brooke, B.A. (*Queen's*), A.M., PH.D. (*Harvard*), Associate Professor of Spanish.

Miss Gwladys V. Downes, M.A. (*Brit. Col.*), Docteur de l'Université de Paris, Associate Professor of French.

P. M. H. Edwards, B.A. (*Brit. Col.*), M.A. (*Columbia*), M.A. (*Harvard*), PH.D. (*Univ. of Penn.*), Associate Professor.

J. Beattie MacLean, B.A. (*Brit. Col.*), M.A., PH.D. (*Wash.*), Associate Professor of German.

Ralph W. Baldner, A.B. (*Miami, Ohio*), M.A. (*Vanderbilt*), PH.D. (*Calif.*), Assistant Professor of French.

Michael M. Dane, B.A. (*Wash.*), M.A. (*Harvard*), Assistant Professor of Russian.

Miss Herta M. Hartmanshenn, PH.D. (*Marbourg*), Assistant Professor of German.

Frederick Kriegel, 2nd State Certificate (*Vienna*), Assistant Professor of German.

Jean-Pierre Mentha, L. ès SC.SOC. (*Geneva*), M.ED. (*Brit. Col.*), Assistant Professor of French.

Gerald Moreau, M.A. (*Laval*), Docteur de l'Université de Poitiers, Assistant Professor of French.

Rudolf Neuhauser, D.PHIL. (*Vienna*), M.A. (*Toronto*), Assistant Professor of Russian and German.

Mrs. Bérangère E. Steel, L. ès L. (*Paris*), Assistant Professor of French.

Miss Kathleen M. Glenn, A.B., A.M. (*Stanford*), Instructor in Spanish.

Jean F. Goetinck, M.A. (*Calif.*), Instructor in French.

Josep Iglesias-Olomí, LL.B. (*Barcelona*), Instructor in Spanish.

Miss Slava Mary Kushnir, B.A., M.A. (*McGill*), Instructor in French.

Jerrold L. Mordaunt, M.A. (*Utah*), Instructor in Spanish. (On leave of absence 1964-65).

Miss Barbara A. Richardson, B.A. (*Durham*), M.A. (*Brit. Col.*), Instructor in French.

Walter Riedel, B.ED., M.A. (*Alberta*), Instructor in French and German. (On leave of absence 1964-65).

Richard E. A. Waller, B.A. (*Oxon.*), Instructor.

James E. Travis, M.A. (*Manchester*), Chevalier des Palmes Académiques, Visiting Lecturer.

Lewis W. Tusken, M.A. (*Colorado*), Lecturer in German.

Ronald R. Jeffels, C.D., B.A., B.ED. (*Alberta*), M.A. (*Cantab.*), Part-time Lecturer in French.

MAJORS AND HONOURS

FRENCH

(a) Major — First Year: French 120; Second Year: French 220; Third and Fourth Years: 9 units of French courses numbered 300 or higher, including 302.

(b) Honours — First Year: French 120 and one year of Latin (if Latin 92 has not been passed in high school); Second Year: French 220 and 223. Third and Fourth Years: Consult the Head of the Department.

GERMAN

(a) Major — First Year: German 110 or 120; Second Year: German 200 and/or German 223; Third and Fourth Years: a total of 9 units in German courses numbered 400 or above.

(b) Honours — Consult the Head of the Department.

RUSSIAN

Major — First Year: Russian 100; Second Year: Russian 200; Third and Fourth Years: a total of 9 units in Russian courses numbered 300 or above including Russian 300 and Russian 400.

SPANISH

Major — First and Second Years: Spanish 120 and 201; Third and Fourth Years: 9 units in Spanish courses numbered 300 or higher; or First and Second Years: Spanish 90 and Spanish 120; Third and Fourth Years: Spanish 201 and 9 units in Spanish courses numbered 300 or higher. (A course numbered 300 or higher may be taken concurrently with 201, with the consent of the Department).

COURSES OFFERED

FRENCH

110. (3) First Year University French

(Prerequisite: French 20) — Study of French texts; grammar; pronunciation.

Texts: Wilson Micks, *Review of Basic French*; other texts to be announced.

(4-0; 4-0)

120. (3) French Language and Literature

(Prerequisite French 92) — Study of French texts; grammar; pronunciation.

Texts: Molière, *Le Bourgeois gentilhomme*; Vercors, *Le Silence de la Mer*; *Representative French Poetry*, Graham; Carlut-Brée, *France de nos jours*; Grammar: Sonet and Shortliffe. Other texts to be announced.

(4-0; 4-0)

210. (3) Second Year University French

(Prerequisite: French 110) — Reading of the following texts: Molière, *Le Bourgeois gentilhomme*; *Contes Modernes*, revised edition, 1949; Vercors, *Le Silence de la Mer*; *Representative French Poetry*, Graham; other texts to be announced. (4-0; 4-0)

220. (3) French Language and Literature

(Prerequisite: French 120) — A study of the following texts: Dougherty, *Perspectives de la Littérature Française*; Sartre, *Les Jeux sont faits*; Mauriac, *Thérèse Desqueyroux*; Gide, *La Symphonie pastorale*; *Representative French Poetry*, Graham. Reference: Sonet and Shortliffe, *Review of Standard French*.

(4-0; 4-0)

223. (3) **French Oral and Written Practice**

(Preparatory course for Majors and Honours; given in French).

Texts: Balzac, *Le Père Goriot*; Whitmarsh and Jukes, *Advanced French Course*. English-French, French-English Dictionary, preferably Larousse. (3-0; 3-0)

302. (3) **French Oral and Written Practice**

Texts: Whitmarsh, *Cours supérieur*; Loubet, *La Technique de la composition française*. (2-2; 2-2)

401. (3) **Literature of the Eighteenth Century**

A study of the drama and the novel of the period, together with the basic writings of Voltaire, Montesquieu, Diderot, Rousseau.

Texts: Lagarde et Michard, *XVIII^e Siècle*; Fellows and Torrey, *The Age of Enlightenment*; Havens, *Selections from Voltaire*; several *Classiques Larousse* to be announced later. (3-0; 3-0)

409. (3) **Literature of the Seventeenth Century**

Texts: Lagarde et Michard, *XVII^e Siècle*; and others to be announced. (3-0; 3-0)

411. (3) **Literature of the Romantic Period**

Texts: Lagarde et Michard, *XIX^e Siècle*; and others to be announced. (Not offered 1964-65).

412. (3) **French Poetry from Baudelaire to Surrealism**

Texts: To be announced. (3-0; 3-0)

415. (3) **Contemporary Literature**

Texts: Pucciani, *The French Theatre since 1930*: and the following *Livre de poche* editions: Proust, *Amour de Swann*; Camus, *La Peste*; Sartre, *La Nausée*; Mauriac, *Le Noeud de vipères*; Malraux, *La Condition humaine*; Giono, *Les Ames fortes*; Bernanos, *Journal d'un curé de campagne*; *Monsieur Quine*.

GERMAN

First Year students fluent in German who wish to register for a German course will be required to take German 200; those in Second Year will take a course numbered 400 or above.

90. (3) **Beginners' German**

Essential grammar, spoken and written drill; elementary readings in German history; selected poetry.

Texts: Hagboldt-Kaufmann-Leopold, *Concise German Course*; Harold von Hofe, *Im Wandel der Jahre*, revised; Hagboldt, *Allerlei*. (4-0; 4-0)

110. (3) **First Year University German**

Further study of grammar; readings in German civilization and twentieth-century fiction; a play; selected poetry. Prerequisite: German 90.

Texts: Kriegel and Tracy, *Deutsche Gedichte*; Dürrenmatt, *Der Besuch der alten Dame*; H. M. Waidson, *German Short Stories* (2 vols.); Cochran's *Practical German Review Grammar*; Cassell's *Compact German Dictionary*. (4-0; 4-0)

120. (3) **First Year University German**

Further study of grammar with some emphasis on composition. Study of short stories, a play and selected poetry. Prerequisite: German 92, or Second or First Class standing in German 90.

Texts: Phelps and Stein, *A German Heritage*, Revised, 1958; Ryder, *Zehn Jahrzehnte*, Holt, 1959; Kriegel and Tracy, *Deutsche Gedichte*; Russon, *Complete German Course*; Cassell's *Compact German Dictionary*. (3-1; 3-1)

200. (3) **German Literature from 1830-1870**

A survey of German writing and thought, 1830-1870. Composition and critical essays. Oral tests. Prerequisites: German 110, 120 or the equivalent.

Texts: Feise and Steinhauer, *German Literature Since Goethe*, Part I; Lederer-Nause, *Kleines Aufsatzbuch*; Cassell's *Compact German Dictionary*. (3-0; 3-0)

223. (3) **Advanced Composition and Conversation**

Texts: Mueller, *Deutsch*; Eggeling, *Advanced German Prose Composition*. (3-0; 3-0)

400. (3) **Nineteenth-Century German Drama**

Texts: T. M. Campbell, *Plays of the Nineteenth Century*; additional texts to be announced. (3-0; 3-0)

401. (3) **Twentieth-Century German Literature**

A study of the main trends in the poetry, prose, and drama of this century; discussion of representative works of Hofmannsthal, Wedekind, Mann, Hesse, Kaiser, Kafka, Werfel, Wiechert, Jünger, Bergengruen and others. (Not offered in 1964-65). (3-0; 3-0)

404. (3) **The Romantic Movement**

A study of the literature of the period against the background of philosophical, political and social developments. (Not offered in 1964-65).

Texts: G. Stenzel, *Die deutschen Romantiker*, 2 vols. (3-0; 3-0)

410. (3) **The Classical Period**

Literature of the eighteenth century, with emphasis on the drama of Lessing, Goethe and Schiller.

Texts: Lessing, *Minna von Barnhelm*; *Nathan der Weise*; Schiller, *Maria Stuart*; Goethe, *Faust I*; *Iphigenie*; Boyd, *Goethe's Poems*; Fairley, *Study of Goethe*. Some outside readings will be assigned. (3-0; 3-0)

RUSSIAN

100. (3) **Basic Russian**

First introductory course in the Russian language.

Text: H. G. Lunt, *Fundamentals of Russian*. (4-0; 4-0)

200. (3) **Second Year of Russian**

Second course in the Russian language.

Text: G. Davydoff and P. Pauliat, *Civilisation et littérature russes*. (3-0; 3-0)

300. (3) **Third Year Russian**

Selected readings in Russian literature, history, linguistics and literary criticism. The selected texts will be analysed and discussed in Russian.

Text: To be announced. (3-0; 3-0)

306. (3) **Russian Literature in Translation**

Genesis and development of Russian literature from the eleventh century to the Soviet Period. A knowledge of Russian is not required for this course. (Not offered 1965-66).

Reference materials: Chizhevskij, *History of Russian Literature from the 11th Century to the Baroque*; Struve, *Soviet-Russian Literature*.

Text: Mirski, *History of Russian Literature*. (3-0; 3-0)

308. (3) **History of Russia**

The antecedents of the Russian state; foundation and growth, with particular attention to colonization and expansion; evolution of political institutions; the history of the revolutionary movements and the development of Russian Marxism; the Soviet state. This course will be accepted for credit in History. (Not offered in 1964-65).

Texts: To be announced. (3-0; 3-0)

400. (3) **History of the Russian Language**

Lectures on the cultural history of the Russian language, its linguistic evolution and its present structure. This course will be conducted in Russian.

Reference material: To be announced. (3-0; 3-0)

SPANISH

90. (3) **Beginners' Spanish**

Grammar, composition, translation, oral work.

Texts: Mapes and Webber, *Brief Course in Spanish*; Eoff and King, *Spanish American Short Stories*; Cano, *La Vida de un pícaro*. (4-0; 4-0)

110. (3) **First Year University Spanish**

(Prerequisite: Spanish 20 or pass standing in Spanish 90). Review of grammar; translation, composition, oral work.

Texts: H. Loss, *A Brief Spanish Review Grammar*; Rodríguez, *Cuentistas de hoy*; Barlow and Steel, *Noche oscura en Lima*; Mihura, *Carlota*; Arjona, *Siglo de aventuras*. (4-0; 4-0)

120. (3) **First Year University Spanish**

(Prerequisite: Spanish 92 or Second Class or better in Spanish 90). Review of grammar; translation, composition, oral work.

Texts: Walsh, *Repaso*; Sacks, *Cuentos de hoy y de ayer*; Grismer and Olmsted, *Personajes del mundo hispánico*; Casona, *La Barca sin pescador*; Batchelor, *Cuentos de acá y de allá*. (4-0; 4-0)

201. (3) **Second Year University Spanish**

Study of modern authors, composition, and assigned themes in Spanish conversation.

Texts: To be announced.

(4-0; 4-0)

302. (3) **Modern Authors**

Study of nineteenth- and twentieth-century authors.

Texts: To be announced.

(3-0; 3-0)

402. (3) **Cervantes**

The life and works of Cervantes, with emphasis on *Don Quijote* and selected *Novelas ejemplares*. (Not offered in 1964-65). (3-0; 3-0)

403. (3) **The Golden Age**

Spanish authors of the sixteenth and seventeenth centuries, with the exception of Cervantes. (Not offered in 1964-65). (3-0; 3-0)

404. (3) **The Literature of Spanish America**

Texts: To be announced.

(3-0; 3-0)

MUSIC

120. (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.

Text: McKinney and Anderson, *Music in History: The Evaluation of an Art*, Second Edition. (3-0; 3-0)

NOTE: For offerings in Music by the Faculty of Education, see page 104. For list of Faculty, see page 81.

DEPARTMENT OF PHILOSOPHY

John De Lucca, B.B.A. (*City Univ. of N.Y.*), M.A. (*New School for Social Research*),
PH.D. (*Ohio State*), Associate Professor and Chairman of the Department.

Miss Julia Johnston, A.B., A.M. (*Southern Methodist Univ.*), Assistant Professor.

MAJOR AND HONOURS

(a) Major — First Year: Philosophy 100; Second Year: Philosophy 202; Third and Fourth Years: Philosophy 300 or 315, and *six* additional units in Philosophy courses numbered 300 or above, chosen in consultation with the Department.

(b) Honours — Philosophy 100, 202, 300, 302, and *twelve* additional units in Philosophy (including 3 units for the Honours essay). In addition, candidates must pass an oral examination stressing their particular fields of concentration.

COURSES OFFERED

100. (3) **Introduction to Philosophy**

A systematic presentation of the problems of philosophy from the early Greeks to the present day.

Dr. De Lucca and Miss Johnston. (3-0; 3-0)

202. (3) **Elementary Logic**

An introduction to systems of deductive logic, including traditional systems, class calculus, predicate calculus, and sentential calculus: their relevance to ordinary non-technical discourse and to the languages of science and mathematics.

Miss Johnston. (3-0; 3-0)

222. (3) **Introduction to Philosophy of Science**

An introductory analysis of the presuppositions, methods, and some philosophical problems raised by science. Discussion of the patterns of scientific explanation, the nature of scientific method, and the logical character of scientific laws and theories. (Not offered 1964-65). (3-0; 3-0)

300. (3) **Ancient Philosophy**

Western philosophic thought from Thales to St. Augustine, with principal stress on Plato and Aristotle. Prerequisite: Philosophy 100.

Dr. De Lucca. (3-0; 3-0)

302. (3) **Ethics**

A study of problems in ethics based on the reading of classic texts.

Dr. De Lucca. (3-0; 3-0)

315. (3) **Rationalism**

The systematic study of Descartes, Spinoza, and Leibniz. Prerequisite: Philosophy 100.

Miss Johnston. (3-0; 3-0)

320. (3) **Empiricism**

The systematic study of Hobbes, Locke, Berkeley, and Hume. Prerequisite: Philosophy 100. (Not offered 1964-65). (3-0; 3-0)

400. (3) **Kant**

Intensive study of *The Critique of Pure Reason* and other epistemological works. Prerequisite: Philosophy 300. (Not offered 1964-65). (3-0; 3-0)

405. (3) **Nineteenth-Century Philosophy**

Post-Kantian developments in philosophy through the nineteenth century, including Fichte, Hegel, Schopenhauer, Mill, Comte, and Spencer. Prerequisite: Philosophy 400. (Not offered 1964-65). (3-0; 3-0)

415. (3) **Contemporary Philosophy**

Detailed examination and discussion of some recent philosophical writings, mainly of the last two decades. Prerequisite: Philosophy 315 or 320 or instructor's permission. (Not offered 1964-65). (3-0; 3-0)

449. (3) **Honours Essay**

DEPARTMENT OF PHYSICS

John L. Climenhaga, B.A., M.A. (*Sask.*), PH.D. (*Michigan*), Professor and Head of Department.

Walter M. Barss, B.A., M.A. (*Brit. Col.*), PH.D. (*Purdue*), Associate Professor.

R. Michael Pearce, B.S.C. (*McGill*), M.A., PH.D. (*Brit. Col.*), Associate Professor.

Harry W. Dosso, B.A., M.S.C. (*Brit. Col.*), Assistant Professor.

Gerhart B. Friedmann, B.S.C., M.A. (*Madras*), PH.D. (*Brit. Col.*), Assistant Professor.

Grenville R. Mason, B.A.S.C. (*Brit. Col.*), M.ENG. (*McMaster*), Instructor.

Harbhajan S. Sandhu, B.S.C., M.S.C. (*Panjab*), PH.D. (*Brit. Col.*), Assistant Professor.

Donald E. Stenton, B.S.C. (*Brit. Col.*), Laboratory Supervisor.

Miss Joan E. Fleming, M.A. (*Cantab.*), Laboratory Instructor.

Miss Cecily Girvan, B.S.C. (*Mount Allison*), Laboratory Instructor.

MAJOR AND HONOURS

(a) Major — First Year: Physics 101, and Mathematics 120 or 121; Second Year: Physics 211, and Mathematics 220 or 221; Third and Fourth Years: Physics 312, 322 and 413; Mathematics 330 or 331.

(b) Honours — Permission of the Department is required for admission into Honours. Students will be expected to maintain at least Second Class standing. First Year: Physics 101, Mathematics 121, Chemistry 102; Second Year: Physics 211 and 222; Mathematics 221 and 223; 6 additional units chosen to meet calendar regulations; Third Year: Physics 321, 322, 324 and 413; Mathematics 331 and 333; Fourth Year: Physics 421, 422, 423, 429 and 430; Mathematics 441 and 445.

COURSES OFFERED

NOTE 1: Students who plan to take only one course in Physics, either to meet the calendar requirements for a science or to acquire some knowledge of the modern physical world, are advised to take Physics 103. All who propose to take an honours or major course in science must take Physics 101.

NOTE 2: Physics 312 is intended for major course students. If credit has been obtained for Physics 222, additional credit will not be given for Physics 312.

101. (3) Elementary Physics

The basic physical concepts of mechanics, heat, sound, light, magnetism, electricity and modern physics. Students who have not obtained credit for Physics 91 must register in Physics 101, Section 1, which has 5 hours of lectures per week. Prerequisite: Mathematics 120 or 121 must precede or be taken concurrently with this course.

Text: Smith and Cooper, *The Elements of Physics*. (3-3; 3-3)

103. (3) A Survey of Physics

From Newton's mechanics to nuclear physics, a description of ideas, principles and their applications. Students who have received credit for Physics 101 cannot receive credit for Physics 103. It is intended for students who wish to acquire some knowledge of a physical science as part of their cultural background.

Text: White, *Descriptive College Physics*. (3-3; 3-3)

211. (3) Mechanics, Heat and Properties of Matter

Vectors, statics, dynamics, energy, momentum, rotation, rigid body motion, gravitation, harmonic motion, oscillation, wave motion, properties of matter, heat and elementary thermodynamics. Prerequisites: Physics 101, Mathematics 220 or 221 (may be taken concurrently).

Text: Sears, *Mechanics, Heat and Sound*. (3-3; 3-3)

222. (3) **Optics**

Geometrical and physical optics, optical instruments, interference, diffraction, polarization. Prerequisites: Physics 101, Mathematics 221 (may be taken concurrently).

Text: Morgan, *Introduction to Geometrical and Physical Optics.* (3-3; 3-3)

312. (3) **Optics**

Geometrical and physical optics, optical instruments, interference, diffraction, polarization, spectroscopy. Prerequisites: Physics 101, Mathematics 220 or 221.

Text: Longhurst, *Geometrical and Physical Optics.* (3-3; 3-3)

321. (3) **Classical Mechanics**

Analytic mechanics of particles, rigid bodies, and fields. Prerequisites: Physics 211, Mathematics 330 or 331 (may be taken concurrently).

Text: To be announced. (3-0; 3-0)

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 211, Mathematics 330 or 331 (may be taken concurrently).

Text: To be announced. (3-3; 3-3)

324. (3) **Topics in Mathematical Physics and Elementary Theory of Measurement**

Application of differential equations and vector analysis to selected topics. Measurement theory. Prerequisites: Physics 211, Mathematics 330 or 331 (may be taken concurrently).

Text: To be announced. (3-0; 3-0)

413. (3) **Introductory Modern Physics**

The major phenomena in the fields of atomic and nuclear physics. Prerequisites: Physics 211, Mathematics 330 or 331 (may be taken concurrently).

Text: To be announced. (3-3; 3-3)

421. (3) **Thermodynamics and Statistical Mechanics**

The laws of thermodynamics with applications. Boltzman, Bose-Einstein and Fenni-Dirac statistics. Prerequisites: Physics 211, Mathematics 331.

Text: To be announced. (3-0; 3-0)

422. (3) **Electronics and Electromagnetic Theory**

Electronic circuit theory with applications. Potential theory, Maxwell's equations, electromagnetic waves. Prerequisites: Physics 322, Mathematics 331.

Text: To be announced. (3-0; 3-0)

423-429. (3) **Modern Physics and Senior Laboratory**

For one year only (1964-65), Physics 423 and Physics 429 will be combined to form a single course and Physics 423 and Physics 429 will not be given as separate courses. (2-3; 2-3)

423. (3) **Modern Physics**

Elementary quantum mechanical treatment of topics in nuclear, atomic and solid state physics. Prerequisites: Physics 413, Mathematics 331.

Text: To be announced. (3-0; 3-0)

429. (3) **Senior Laboratory**

Advanced experiments in electricity, electronics, magnetism, modern physics.

(0-6; 0-6)

430. **Physics Seminar**

DEPARTMENT OF PSYCHOLOGY

William H. Gaddes, M.A. (*Brit. Col.*), PH.D. (*Claremont*), Professor and Head of Department.

Geoffrey P. Mason, M.A. (*Brit. Col.*), PH.D. (*Wash. State*), Associate Professor.

G. Alexander Milton, B.A. (*Western Wash.*), M.S. (*Oregon*), PH.D. (*Stanford*), Associate Professor.

Craig McD. Mooney, B.A. (*Sask.*), PH.D. (*McGill*), Associate Professor.

Erling E. Boe, B.A. (*Concordia, Minn.*), M.S., PH.D. (*Wash. State*), Assistant Professor.

Norah M. Carlsen, B.A. (*Brit. Col.*), M.A. (*Toronto*), Instructor.

Gordon Neville Hobson, B.A., M.A. (*Alta.*), Instructor.

Douglas E. Alcorn, M.D., G.M. (*McGill*), Cert. R.C.P. and S.(C) Neur. and Psych., Part-time Lecturer.

Ian S. Kenning, B.Sc., M.D., C.M. (*McGill*), Cert. R.C.P. and S.(C) Psych., Part-time Lecturer.

Robert M. Peet, B.A., M.B., B.Ch., B.A.O., M.D. (*Trinity College, Dublin*), M.R.C.P.I., M.S. (*Minn.*), F.R.C.P. (C), Part-time Lecturer.

Charles Gregory, M.D., CH.B. (*Liverpool*), Cert. R.C.P. and S(C) Psych., Honorary Research Fellow.

MAJOR AND HONOURS

Three undergraduate programmes are offered by the Department of Psychology. The general major is designed to provide maximum programme flexibility and a general background for students planning to enter other fields, such as social work, journalism, education, law, medicine, etc. The honours programmes are designed to provide a background for students planning graduate work in scientific or professional psychology. A student taking any Psychology major 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 examination set by the appropriate department. The years specified for taking the following requirements may be regarded as recommendations only, so long as general University requirements are met.

(a) Major—In addition to the general University requirements for a bachelor's degree, the student is required to take Psychology 100, Psychology 200 or 220, and any five courses (two units courses) in Psychology at the third and fourth year level.

(b) Honours—The following table summarizes the required courses and the recommended sequence for B.A. Honours and B.Sc. Honours in Psychology. Students in the B.A. programme are encouraged to choose their outside electives from the Humanities and Social Sciences. Students in the B.Sc. programme are encouraged to select their outside electives from the Sciences and Mathematics. Written and oral examinations and a thesis are required during the fourth year for both Honours programmes. A seventy per cent average for all work and a seventy-five per cent average in Psychology are minimum requirements for these degrees.

RECOMMENDED COURSE SEQUENCE FOR HONOURS

Year	B.A. Honours		B.Sc. Honours	
	Course	Units	Course	Units
I.	Psychology 100	3	Psychology 100	3
	English 100	3	English 100	3
	Mathematics 120 or 121	3	Mathematics 120 or 121	3
	Zoology 105	3	Zoology 105	3
	Foreign Language	3	Foreign Language	3
	—		—	
	Total	15	Total	15

Year	B.A. Honours		B.Sc. Honours	
	Course	Units	Course	Units
II.	Psychology 200	3	Psychology 200	3
	Philosophy 100	3	Philosophy 100	3
	Foreign Language	3	Mathematics 220 or 221	3
	English 200	3	Zoology 202	3
	Anthropology or Sociology 200..	3	Chemistry 102	3
	Total	15	Total	15
III.	Psychology 300	2	Psychology 300	2
	Psychology 301	2	Psychology 301	2
	Psychology 320	2	Psychology 320	2
	Psychology 324	2	Psychology option	2
	Mathematics 206	1	Physics 101	3
	Psychology or outside electives ..	9	Zoology 303	3
	Total	18	Mathematics 206	1
			Psychology or outside electives ..	3
	Total	18	Total	18
IV.	Psychology 400	5	Psychology 400	5
	Psychology 401	2	Psychology 401	2
	Psychology 403	2	Psychology 403	2
	Psychology option	2	Psychology option	2
	Psychology or outside electives*..	7	Psychology or outside electives*..	7
	Total	18	Total	18

NOTE: Six units of outside electives are required in the Third and Fourth Years combined.

COURSES OFFERED

Psychology 100 and 200 or 220 are prerequisite to all Third and Fourth Year courses.

100. (3) Introduction to Psychology

An introduction to the basic principles and methods of some of the major areas of modern psychology. Emphasis is placed upon the scientific study of behaviour through a survey of such topics as development, personality, perception, learning, motivation, psychological testing, and social and physiological psychology. Lectures are supplemented with demonstrations, discussions, and individual participation in psychological research.

Texts: Munn, *Introduction to Psychology*; King, *Reading for an Introduction to Psychology*.

Dr. Milton and Staff.

(3-0; 3-0)

200. (3) Experimental Psychology

The study of experimental methods and parametric and non-parametric bivariate statistical techniques used in psychological research. An introduction to the concepts of multi-variate analysis is included. These procedures are applied to individual laboratory experiments. Prerequisites: Psychology 100, and Mathematics 120 or 121 or equivalent must precede or be taken concurrently with the course.

Texts: Edwards, *Statistical Methods for the Behavioral Sciences*; *American Psychological Association Publication Manual*.

Dr. Boc.

(2-2; 2-2)

220. (3) Dynamics of Behaviour

An experimental, dynamic, and social approach to behaviour adjustment with specific references to applications. Library research and a term report are required.

Text: Coleman, *Personality Dynamics and Effective Behavior*.

(3-0; 3-0)

NOTE: Admission to the following courses is by permission of the instructor.

300. (2) Research Methods

Advanced experimental design and statistical techniques are applied to problems in psychological research. Special attention is given to the relation of statistical analysis to the design and interpretation of experiments. Individual research is conducted. Prerequisite: Psychology 200.

Texts: Winer, *Statistical Principles in Experimental Design*; Scott and Wertheimer, *Introduction to Psychological Research*.

Dr. Milton.

(1-2; 1-2)

301. (2) Learning

A critical survey of the basic experimental findings and theory of the learning process, with laboratory experiments on human and animal learning. Prerequisite: Psychology 200.

Text: Kimble, *Conditioning and Learning*.

Dr. Boe.

(1-2; 1-2)

302. (2) Physiological Psychology

The study of the physiological basis of normal and disordered behaviour. Sensory, neurological, glandular, and motor processes will be investigated. Prerequisites: Psychology 200 and Zoology 105.

Text: To be announced.

Dr. Gaddes and Dr. Peet.

(1-2; 1-2)

320. (2) Personality Theory

A critical investigation of the major theories of personality, theoretical problems, and the relation of these theories to other major psychological systems.

Text: Hall and Lindzey, *Theories of Personality*.

Mrs. Carlsen.

(2-0; 2-0)

321. (2) Social Psychology

A study of the interaction of individuals and their social groups. Social processes, motivations, beliefs, opinions, attitudes, dynamics, leadership, controls, language, propaganda, and other major social problems are investigated. (Not given in 1964-65).

322. (2) Educational Psychology

A survey of the theories and applications of psychological methods to learning situations in industry, business, the professions and the classroom. Research projects will be carried out to investigate the effectiveness of different modes of learning. Designed for the interested student in Arts, Science, or Education. Prerequisite: the regular psychology prerequisites may be waived for advanced students in Education, with permission of the instructor.

Text: To be announced.

Mrs. Carlsen.

(2-0; 1-2)

323. (2) Human Factors

The study of human engineering, man-machine systems, personnel selection and evaluation, and basic psychological processes applied to modern business and industry.

Text: To be announced.

Dr. Mooney.

(2-0; 2-0)

324. (2) Developmental Psychology

Psychological development, pre-natal through adolescence; determiners of psychological growth; motor, emotional, social, intellectual, language and personality development. Implications for the guidance of psychological development are indicated.

Text: To be announced.

(2-0; 2-0)

400. (5) **Honours Thesis and Seminar**

Research and critical discussion of major research topics in psychology. A comprehensive examination in field of psychology and an oral examination on the thesis are required. Prerequisites: Psychology 300 and honours standing.

Dr. Boe and Staff.

(2-6; 2-6)

401. (2) **Perception**

The experimental study of perceptual and cognitive processes. Prerequisite: Psychology 200.

Text: To be announced.

Dr. Mooney.

(1-2; 1-2)

402. (1 or 2) **Special Problems in Psychology**

Independent study for the advanced student. May involve library research or empirical research. Prerequisites: Honours standing and a faculty sponsor.

Staff.

403. (2) **Psychometrics**

A critical evaluation of principles and issues in psychological measurement, including techniques of test and questionnaire construction, psychological scaling, and an introduction to factor analysis. Prerequisite: Psychology 200.

Text: To be announced.

Dr. Mason.

(2-0; 1-2)

404. (2) **Motivation**

A study of the principles and theories of motivation and emotion, including physiological and social factors, theoretical and experimental developments, and behavioural implications. Prerequisite: Psychology 200. (Not offered in 1964-65).

420. (2) **Psychopathology**

Behaviour disorders, including the Neuroses and Psychoses, are studied in detail with regard to origins, typical symptoms, diagnostic procedures, dynamics, and treatment. Prerequisite: At least one third year course in psychology.

Text: Coleman, *Abnormal Psychology and Modern Life*.

Dr. Alcorn and Dr. Kenning.

(2-0; 2-0)

421. (2) **Systems and Issues**

A critical survey of current issues and systems in psychology viewed in their historical perspectives. Prerequisite: At least one third year course in psychology. (Not offered in 1964-65).

422. (2) **Introduction to Clinical Psychology**

A survey of the clinical applications of psychology. Includes an analysis of the clinical processes, clinical psychologist's role, function, and position in mental health services. Prerequisites: Psychology 200 and Psychology 320.

Dr. Milton.

(2-0; 1-2)

423. (2) **Comparative Psychology**

The investigation of the behaviour of organisms at selected points along the phylogenetic scale. Prerequisites: Psychology 200 and Zoology 105. (Not offered in 1964-65).

Faculty of Education

FACULTY OF EDUCATION

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FACULTY OF EDUCATION

Henry C. Gilliland, M.A. (*Brit. Col.*), Professor and Dean of the Faculty.

George A. Brand, B.A., M.ED. (*Brit. Col.*), Professor, Assistant Director of Teacher Education and Supervisor of Practice Teaching.

Hugh E. Farquhar, M.A. (*Brit. Col.*), Professor.

Howard B. Barnett, A.R.C.T., B.A., MUS. BAC. (*Toronto*), M.A., PH.D. (*S. Calif.*), Associate Professor.

David J. Chabassol, B.A., B.ED. (*Acadia*), M.ED. (*Toronto*), PH.D. (*Alberta*), Associate Professor.

Miss Jean D. Dey, B.ED., M.ED. (*Alberta*), Associate Professor.

D. Boyce Gaddes, A.T.C.M., B.MUS. (*Oregon*), M.A. (*Washington*), Associate Professor.

A. Wilfrid Johns, B.A. (*Washington*), Associate Professor.

Fred L. Martens, B.A., B.ED. (*Brit. Col.*), M.SC. in P.E. (*Washington*), Associate Professor.

Richard H. J. Monk, B.A. (*Brit. Col.*), M.ED., PH.D. (*Washington*), Associate Professor.

Mrs. Winnett A. Brand, Assistant Professor.

Mrs. Kathleen M. Christie, B.A. (*Brit. Col.*), Assistant Professor.

Miss Jessie B. Fleming, B.A. (*Brit. Col.*), Assistant Professor.

Otto F. Fritze, M.A. (*Acadia*), ED.M. (*Harvard*), PH.D. (*Alberta*), Assistant Professor.

Cary F. Goulson, M.A. (*Brit. Col.*), Assistant Professor.

John F. Hall, A.M. (*Stanford*), M.S. (*Oregon State*), Assistant Professor.

Mrs. Maureen C. Hibberson, B.P.E. (*Brit. Col.*), M.A. (*Oregon*), Assistant Professor.

Edgar B. Horne, B.A.SC., M.A. (*Brit. Col.*), Assistant Professor.

G. Gordon Manson, B.A., B.ED. (*Brit. Col.*), Assistant Professor. (On leave of absence 1964-65).

Edward E. Owen, B.A., M.A. (*Auckland*), Assistant Professor.

Steinn W. Steinson, B.A. (*Sask.*), M.A., D.ED. (*U.C.L.A.*), Special Lecturer.

William K. Cross, B.ED. (*Brit. Col.*), Instructor.

John R. Cameron, M.A. (*Brit. Col.*), Instructor.

John Philip Dobereiner, DIP. V.S.A., B.ED. (*Brit. Col.*), Instructor.

Donald Harvey, A.T.D. (*Britain*), Instructor.

Mrs. R. Anne McLaughlin, B.COM. (*Brit. Col.*), Lecturer.

John J. Sheppy, B.A., M.ED. (*Brit. Col.*), Instructor.

Mrs. Marion Small, B.ED. (*Brit. Col.*), Instructor.

Robert Swailes, B.S.A. (*Man.*), M.ED. (*Brit. Col.*), Instructor. (On leave of absence 1964-65).

From the Department of Classics:

Peter L. Smith, B.A. (*Brit. Col.*), M.A., PH.D. (*Yale*), Associate Professor.

From the Department of Modern Languages:

Jean-Pierre Mentha, L. ès SC. SOC. (*Geneva*), M.ED. (*Brit. Col.*), Assistant Professor of French.

From the Department of Psychology:

Geoffrey P. Mason, M.A. (*Brit. Col.*), PH.D. (*Wash. State*), Associate Professor.

**UNDERGRADUATE CERTIFICATE AND DEGREE PROGRAMMES
OFFERED BY THE FACULTY OF EDUCATION**

The Faculty of Education offers programmes leading to an undergraduate degree in Education, granted by the University, and to teaching certificates, awarded by the Department of Education of the Province of British Columbia, in the fields of elementary and secondary teacher education. The degree granted is Bachelor of Education (B.Ed.).

A. IN THE ELEMENTARY TEACHING FIELD:

(1) A four-year programme from High School Graduation (University Programme), leading to the degree of B.Ed. in the elementary teaching field and meeting the course requirements for the interim Professional C Certificate. (See A1, page 87).

Successful completion of the first two years of this programme fulfils course requirements for the interim Elementary B Certificate.

(2) A one-year professional programme for students with full First Year in Arts and Science, or its equivalent, or one or more years' acceptable credit in another faculty. Successful completion of this professional year fulfils course requirements for the interim Elementary B Certificate (two years approved credit) or the interim Elementary A Certificate (three years approved credit). See also page 83 (Admission Requirements). (See also A2, page 89).

(3) A one-year professional programme for graduates of a faculty other than Education who are interested in elementary school teaching. Successful completion of this year fulfils course requirements for an interim Professional Basic Certificate. (See A3, page 89).

(4) A fifth year programme following the B.Ed. (Elementary) Degree. Successful completion of an appropriate fifth year programme, approved in advance by the Dean, fulfils course requirements for the interim Professional Basic Certificate. (See A4, pages 89 and 90).

B. IN THE SECONDARY TEACHING FIELD:

(1) A five-year programme from High School Graduation (University Programme), leading to the degree of B.Ed. in the secondary teaching field and meeting the course requirements for the interim Professional Basic Certificate. (See B1, page 93).

(2) Programmes enabling elementary teachers with the first two years of credit toward the degree of B.Ed. in the elementary field to complete, by winter or summer sessions, the remaining three years of training leading to the interim Professional Basic Certificate and the degree of B.Ed. in the secondary field. (See B2, page 94).

(3) A one-year teacher-training programme enabling graduates, with an acceptable bachelor's degree from a faculty other than Education, to meet the course requirements for the interim Professional Basic Certificate.

In 1964-65 this programme will be limited to graduates with acceptable majors in two of Art, Biological Sciences (Biology, Botany, Zoology), English, French, Geography, History or International Studies, Latin, Mathematics, Music and Physics. See also page 83 (Admission Requirements). (See also B3, page 94).

TEACHING CERTIFICATES

Since sole authority to issue teaching certificates rests with the Provincial Department of Education, Victoria, B.C., a degree or statement of credit from the University is not a licence to teach. The standing of candidates who successfully complete any of the above programmes will be reported by the University to the Department of Education.

Under current regulations those who undertake basic training through the elementary programme, or who complete the requirements for the Elementary B or higher certificate and transfer to the secondary programme, qualify for certification

by completing a particular year on a degree programme in the Faculty of Education as follows (since basic teacher training is completed) :

- Full* Second Year — Elementary B
- Full* Third Year — Elementary A
- Full* Fourth Year — Professional C
- Full* Fifth Year — Professional Basic

The first certification awarded is interim in nature, valid normally for a period of four years. Requirements for permanent certification call for completion of two years' satisfactory teaching in the Province, the recommendation of the District Superintendent of Schools, acceptance by the Department of Education, and for those trained currently in the Province, the attainment of the Elementary A, or higher, certification. Those with degrees in faculties other than Education who complete the one-year course for graduates leading to the interim Professional Basic certificate, require a further six units of appropriate work for permanent certification.

Those who embark directly upon the B.Ed. (Secondary) programme do not qualify for certification until completion of *full* Fifth Year requirements. If a student is compelled by financial need to interrupt his programme, however, he may transfer, on the successful completion of any year, to the One Year professional programme (Elementary A2) and, upon successful completion of it, teach with the appropriate certificate till he is able to resume his secondary programme.

ADMISSION REQUIREMENTS

Applicants for admission to the Faculty must meet the general requirements on pages 14 and 15. The University reserves the right, however, to reject applicants for admission to this Faculty on the grounds of physical or health disabilities, or for other reasons, including unsatisfactory academic record. Persons who have failed the last year attempted in another faculty or another university are not admissible.

Special additional provisions or requirements for two of the above programmes are listed below:

For the One-Year (Elementary) Professional Programme, A(2) above:

For the present a special provision is made that students with 12 units of acceptable credit through Grade XIII or First Year university with sixty-five per cent standing and good record may be admitted to the one-year professional programme, A(2) above; where Grade XIII is concerned, at least 9 of the 12 units must have been obtained at one sitting of the Department of Education examinations.

These students will require full second year standing for the interim Elementary B Certificate.

For the One-Year Programme for Graduates, B(3) above:

(a) Candidates will be admitted who:

Hold a degree from a recognized university with completed majors (9 units of work in each in the Third and Fourth Years), or equivalent thereof, in two of the following subjects: Art, Biological Sciences (Biology, Botany, Zoology), English, French, Geography, History or International Studies, Latin, Mathematics, Music, Physics, and have obtained an average of 65% in those courses of the two senior years which go to make up each of these majors. At least one of the majors offered must be in a subject widely taught in British Columbia Secondary Schools. Students planning to enter teaching would be well advised to consult the section on "Teaching Majors for Secondary Teachers", pages 95 to 98.

or

Have completed an Honours or a Master's degree in one of the above.

(b) Candidates with averages in the range 60% - 65% but who do not meet the above requirements, as well as those holding other degrees such as B.A.Sc., B.Com., B.H.E., B.Mus., B.P.E., B.S.A., B.S.F., B.S.P., LL.B., and who wish to be considered for admission, should apply in writing to the Registrar, requesting that their cases be reviewed by the Committee on Admission, Standings and Courses. Applications of this type should be received by the Registrar as early as possible and certainly before August 14.

ADMISSION WITH ADVANCED STANDING

(a) Students with full First Year Arts and Science or its equivalent, have completed the course requirements for admission to the Second Year of either programme leading to a degree in Education.

(b) Students who are completing work for a degree in another faculty may transfer to the Faculty of Education. Credit will be given for those courses, already completed, which meet the requirements of the programme in Education selected.

(c) Students transferring from the degree programme in the elementary field to the degree programme in the secondary field, or from one major to another within a programme, will be given credit for those courses already completed which meet the requirements of the newly selected programme. No application for transfer will be approved when the student has failed the previous year's work. No credit will be granted to Elementary transfers for the professional courses of the second year of the Elementary programme unless all the professional work of the first two years has been successfully completed at the time of transfer.

(d) A student who has completed courses at another university may submit to the Registrar a transcript of his record to be evaluated toward the requirements for a degree in Education at the University of Victoria.

Once registered in the Faculty, however, the candidate may expect credit for courses subsequently taken elsewhere only when prior permission has been obtained from the Dean.

Normally candidates must complete the final year of the degree course in Elementary Education, and the final two years of the degree course in Secondary Education, in the University of Victoria.

STUDENTS FROM OTHER COUNTRIES

(See also general regulations, pages 14 and 15.)

Since practice-teaching in the public schools forms a major part of all Education programmes, students from other countries and students whose native tongue is not English will be required, as a prior condition of admission, to pass oral and written tests in English to demonstrate that they may properly be admitted to the privilege of carrying on teaching practice in the public schools.

Any other candidate for admission to the Faculty may also be required to pass these tests.

INQUIRIES CONCERNING ADMISSION

Students who plan to enroll in the Faculty of Education for the first time should write to the Registrar as soon as possible but before August 14. Needless delay will be avoided if the following information is provided:

- (a) name in full (a married woman should also give her maiden name);
- (b) official transcripts of high school and university records;
- (c) a "transfer of credits" statement from the Registrar, Department of Education, Victoria, B.C., if applicant holds a B.C. Teacher's Certificate;
- (d) statement as to the particular course or programme in Education desired; and, where the secondary programme leading to the B.Ed. Degree is concerned, a statement of the two majors desired; where the elementary programme is involved, a statement of the one major desired in the third and fourth years. See pages 91 to 98.

REGISTRATION

Registration of qualified students in the Faculty is governed by the general regulations on pages 15 and 16, except that **no student will normally be allowed to register or transfer after the first day of instruction.**

FEES AND EXPENSES

Fees paid by students in the Faculty are comparable to those in Arts and Science. The tuition and student fees are \$402 in each year of the course.

For expenses of board and room see pages 23 and 24.

Students should allow from \$50 to \$100 for books and equipment and a similar amount to cover the cost of travel to schools for practice-teaching throughout the regular winter session. Students taking Education 197, 297 or 499 are reminded that their year is not completed until the middle of May and that they must allow for travel and living expenses for the three-week post sessional period in parts of the Province other than the Greater Victoria area.

FINANCIAL ASSISTANCE

For information about scholarships, bursaries and loans available see pages 109 to 134.

The University also has a small loan fund to assist students requiring financial assistance. For further information please consult the President's Office.

Work in the Library and in the Cafeteria, at the rate of \$1.00 per hour, will be provided for students of good standing who require financial assistance. Application should be made to the Student Placement Officer at time of registration on a form available for this purpose.

EXAMINATIONS AND ADVANCEMENT

Examinations

1. Examinations for the winter session are held in December and April. In December they are held in all First and Second Year courses and in upper year courses at the discretion of the Faculty. In April they are held in all courses except those final at Christmas. These examinations are obligatory for all students.

2. **Applications for special consideration on account 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.**

3. In any course which involves both laboratory work and written examinations, students will be required to make satisfactory standing in both parts. Results in laboratory work will be announced prior to the final examination, and students who have not obtained a mark of at least 50% will neither be permitted to write the examination nor to receive credit for the course. If the course is repeated no exemption will be granted from the work in either part.

4. In any course which involves term assignments, students may be debarred from writing the final examination if the required term work has not been completed to the satisfaction of the Faculty.

Standing and Credit

1. Candidates taking at least 15 units of work, and obtaining at least 50% in each subject, will be graded as follows: First Class, an average of 80% or over; Second Class, 65 to 79%; Passed, 50 to 64%.

2. (a) A student taking 9 or more units in the winter session will not receive credit for any course unless he successfully completes 9 units.

(b) A student taking fewer than 9 units in the winter session will receive credit for a course only if, as a result of the final examinations of that session, he passes in all his courses.

3. Courses for which credit has not been obtained must be repeated, or permissible substitutes taken, in the next regular session attended. In the winter session the total of all courses taken may not exceed 18 units.

4. Essays and examinations will be refused a passing mark if they are deficient in English.

5. To be eligible for the Bachelor of Education degree, the candidate must normally have earned:

(a) a mark of at least 50% in each of the courses comprising the degree programme;

(b) an average of not less than 60% in the senior courses of each of the majors which constitute the candidate's programme.

6. A student who meets the minimum requirement for passing 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 his probationary year he may be reinstated or, if there has been insufficient improvement, he will not be permitted to proceed to the next higher year.

SUPPLEMENTALS

1. In the winter session a student will be granted the privilege of writing one supplemental in not more than 3 units of courses taken during that session provided that:

- (a) he has obtained during that session at least 12 units of credit;
- (b) he has written the final examination in the subject concerned and has obtained a final grade of at least 40%.

2. The Faculty may, at its discretion, grant supplemental privileges in a further 3 units to a student whose course work during a full winter session is in excess of 15 units.

3. **No supplementals will be granted to students registered in summer session or Evening Division.**

4. At the discretion of the Faculty, arrangements may be made in certain cases for a further trial period of practice teaching.

5. In all but the Final Year a candidate who has been granted a supplemental may write it once only. If he fails, he must repeat the course or take a permissible substitute. In the Final Year he may write it twice (subject to the limitation in the Section under "Standing and Credit").

6. Supplemental examinations, covering the work of both the first and second terms, will be held during August in respect of winter session examinations. Supplemental examination privileges will not be granted to students who fail the laboratory work of science courses.

7. 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 discontinued, the supplemental privilege may be cancelled.

RE-READING OF EXAMINATION PAPERS

Re-readings, where permitted, are governed by the following regulations:

1. Any request for the re-reading of an answer paper other than for a supplemental examination (in which a request for a re-reading will not be granted), must reach the Registrar within two weeks after the announcement of examination results and must be accompanied by a fee for each paper of \$5.00, which will be refunded only if the mark is raised.

2. Each applicant for a re-reading must state clearly why he believes the content of his paper to deserve a mark higher than it received; pleas on compassionate grounds should not form part of this statement and prospective applicants should remember that a paper with less than a passing mark has been read at least a second time before results are announced.

3. Re-readings will not be permitted in more than two papers (6 units) in the work of one academic year, and in one paper (3 units) in a partial course of 9 units or less or in the work of one Summer Session.

ELEMENTARY PROGRAMMES

A1. The Bachelor of Education (ELEMENTARY) Degree Programme (four years):

This is the standard programme designed for the education of elementary school teachers. It consists of a total of 66 units. Students transferring to Education from another faculty or after Grade XIII will require a total of 69 units.

Successful completion of the first two years of this programme fulfils course requirements for the interim Elementary B Certificate; successful completion of three years, the interim Elementary A Certificate; graduation with the B.Ed. degree, the interim Professional C Certificate. Candidates who complete an appropriate fifth year of work approved by the Dean may qualify for the Professional Basic Certificate.

The granting of the B.Ed. degree or of a teaching certificate is dependent upon satisfactory performance in the practice-teaching programme (see page 90).

	<i>Units</i>
First Year	
Education 102	3
Education 197	0
English 100 (Lit. and Comp.)	3
History 102 or 101	3
Any first year laboratory science such as Biology 105, Botany 105, Chemistry 102, Geography 101, Physics 101 or 103, Zoology 105	3
†One of: the first year of a language other than English, or first year Mathematics, or Fine Arts 101, or Music 101, or Physical Education 105	3
	15 units
Second Year	
Education 297	0
Education 201	1½
Education 202	1½
Education 203 or 204	3
Education 205	1
Education 207	1
Education 209	1
English 200	3
Mathematics 203	3
	15 units
Third Year	
Education 331	3
English 300 or 400	3
*Geography 303	3
**9 units devoted to the major chosen (see pages 91 and 92) or to approved electives or to a combination of both	9
	18 units
Fourth Year	
Education 400 or 430	3
Education 309 or other approved course	3
**12 units devoted to the major chosen (see pages 91 and 92) or to approved electives or to a combination of both	12
	18 units

See footnotes on following page.

†As a student makes his choice of subjects in the First Year, he should bear in mind what his major will be in the Third and Fourth years (see page 91). A student who plans at the end of the Second Year to transfer to the Secondary programme should make one of the first two choices (see page 93).

*A student who has already taken Geography 101 must choose in place of Geography 303 another approved Geography course (preferably a regional course).

**In this block of 21 units (9 units plus 12 units) in the Third and Fourth Years, the student is expected to complete one major and several electives. If he chooses a professional major, the remaining courses of the 21 unit group should be academic. If his major be academic, the remaining courses should be professional (see page 91).

The programme above is planned so that students may leave the University after the Second Year to teach in schools. The Department of Education may grant an interim teaching certificate to those who complete the first two years successfully, but the certificate will not be permanent until the full Third Year is completed; and the University will, of course, not award a degree until all four years are successfully accomplished. The plan, however, does allow teachers to complete the Third and Fourth years by summer session attendance or by extra-session courses during the winter.

The work of the first two years requires full-time attendance during the day for the normal University winter session.

Students from other faculties may transfer in August to the programmes outlined above, and adequate provision is made for substitution of courses for those prescribed above. However, at least one full year of professional work must be taken on campus during the winter session in the Faculty. All the prescribed professional courses must eventually be completed before the degree will be awarded.

OTHER PROGRAMMES — ELEMENTARY FIELD

1. Two-Year Programme for Teachers Holding a Normal School Diploma with the Elementary Basic Teaching Certificate and Proceeding to the B.Ed. Degree (Elementary Field):

Third Year		<i>Units</i>
English 200 (if equivalent not taken previously)		3
One of English 301, first year language other than English, Mathematics 120, Fine Arts 101, Music 120, Geography 303		3
A first year laboratory science. If this has been previously taken, an approved elective course may be substituted		3
Education 331		3
Major or approved electives		6
Fourth Year		
English 300		3
Education 400 or 430		3
Education 309 or approved alternative		3
Major or approved electives		9
		36 units

A2. One-Year (Transfer) Programme (Elementary):

This one-year professional programme is for students who have completed at least First Year Arts and Science, or its equivalent. Students enrolling will be registered in Second, Third, or Fourth Year (Transfer) as appropriate.

	<i>Units</i>
Education 297	0
Education 102	3
Education 201	1½
Education 202	1½
Education 203 or 204.....	3
Education 205	1
Education 207	1
Education 209	1
Mathematics 203	3
English 200 or 300 or 400 or approved Senior Education course	3
	<hr/> 18 units <hr/>

This is the one-year professional programme mentioned on page 82 (A2). For special admission provisions see also page 83 (A2).

Students in this professional year should note that to gain any course credit at all they must pass Education 297 (Observation and Practice Teaching).

A3. One-Year Programme in Elementary Education for Graduates of Other Faculties:

This is the one-year professional programme for graduates of other faculties mentioned on page 82. Students with a Bachelor's degree from another faculty who wish to become teachers in elementary schools will take this programme.

	<i>Units</i>
Education 297	0
Education 102	3
Education 201	1½
Education 202	1½
Education 203 or 204	3
Education 205	1
Education 207	1
Education 209	1
Mathematics 203	3
An approved Senior Education course	3
	<hr/> 18 units <hr/>

Successful completion of this course leads to the interim Professional Basic Certificate. For permanent certification a further six units of appropriate work is required. These 6 units must be in Education unless otherwise specified by the Committee on admissions.

Students in this professional year should note that to gain any course credit at all they must pass Education 297 (Observation and Practice Teaching).

A4. Programmes for Graduates with the Bachelor of Education (Elementary) Degree:

Graduates of the four-year degree programme in the Elementary Field may fulfil course requirements for Professional Basic certification by completing an appropriate fifth year of study approved in advance by the Dean.

For students who plan to teach in elementary schools, the programme will normally amount to fifteen approved units. These students must complete in their third, fourth, and fifth years at least nine senior academic units other than English 300 or 400 and Geography 303 (or its approved senior Geography substitute). The remaining units may be either approved senior academic or approved senior professional courses. The academic courses referred to in this paragraph will normally be in teaching subjects (such as English, French, Geography, History, Mathematics).

For students who plan to teach in secondary schools, the programme will normally consist of not less than fifteen approved academic units. Such students will complete one academic major (teaching subject such as English, French, Geography, History, Mathematics) and start on a second teaching major. The nine senior units of the completed major must average 60%.

PRACTICE TEACHING LABORATORY AND SEMINAR REQUIREMENTS IN THE ELEMENTARY PROGRAMMES

The granting of the B.Ed. degree or of a teaching certificate is dependent upon satisfactory performance in the seminar and laboratory courses outlined below.

All students except those in the regular Third and Fourth Years of the Elementary Programme will be assigned to a one-hour weekly seminar under the direction of an assigned Faculty Adviser. Regular attendance is *required*.

Student participation in laboratory activities in the schools, whether it be observation, teaching practice, demonstration lessons, or field trips, is *required*; these activities become the basis for discussion in the required weekly seminar sessions. A Laboratory Note Book is *required*.

In the First Year of the regular Elementary Programme students will have their observation, demonstration lessons, and practice-teaching on Tuesday mornings. At the conclusion of their final examinations in the spring, they will have a block of two weeks of continuous observation and practice-teaching in May.

Students who are taking their "professional year" (i.e. those in the Second Year of the regular programme, all students who have transferred into the one year professional programme, and the graduate transfers) will have their observation, demonstrations, and teaching practice for the whole of each Thursday. They will also have a one-week practicum in November, a two-week practicum in February, and a three-week practicum at the end of the session. Students who fail their practice-teaching in the "professional year" have all their professional course credits withheld.

PROFESSIONAL OR ACADEMIC MAJORS FOR ELEMENTARY TEACHERS

In the Third and Fourth Years, students have a total of fifteen units of required courses (five courses). They have a further 21 units in which they are expected to complete either of:

one professional major (see below), together with approved academic electives (see page 92) to make up the total of 21 units;

or

one approved academic major (see page 92, below), together with senior professional electives to make up the total of 21 units.

Successful completion of the B.Ed. (Elementary) Degree requires an average of 60% in the nine units of senior courses constituting the major.

PROFESSIONAL MAJORS IN THE ELEMENTARY PROGRAMME

In the professional majors emphasis is upon the professional preparation of a teacher in a specialized field.

Observation or practice-teaching or some other form of practical work related to the field of the major may, at the discretion of the faculty, be required.

Art Education

1st year: Fine Arts 101

3rd year: Fine Arts 300 and one of the following: F.A. 401, F.A. 305.

4th year: Ed. 305 (in place of Ed. 309), F.A. 302 and one of the following: F.A. 402, F.A. 405.

Exceptional Children

At present a whole major for Exceptional Children is not offered. A student thinking of starting on this major must consult the Dean.

3rd year: Education 407 and 331 and three units of Education 306, 414, 415, 417, 461.

4th year: Not offered in 1964-65.

Intermediate Education

2nd year: Ed. 204 preferred but not required.

3rd and 4th years: Ed. 415, 461 and 6 units of Ed. 305, 306, 307, 308, 406, 407, 408, 411, 414, 416, 460, Eng. 301, Theatre 301. A student may not elect more than 3 units of Ed. 306 and 308 in this major.

Music Education

1st year: Music 101.

3rd and 4th years: (not offered in full in 1964-65. See Note.) Music 120 or F.A. 101, Ed. 307 (in place of Ed. 309); and the following courses not offered in 1964-65: Music 201, Music 302, Music 303, and Music 401.

NOTE: In 1964-65 the only courses offered toward a Music Major are Music 101 and Music 120 or Fine Arts 101. The Senate of the University has not yet authorized a full major in Music.

Physical Education

1st year: P.E. 105.

NOTE: The Senate of the University has not yet approved a Physical Education Major.

Primary Education

2nd year: Ed. 203 preferred but not required.

3rd and 4th years: Ed. 405, Eng. 301, and two of Ed. 305, 306, 307, 308, 407, 408, 414, 415, 416, 461, Theatre 301. A student may not elect more than 3 units of Ed. 306, 308.

Pre-School Education

Not offered in 1964-65.

Science Education

Botany 105; Zoology 105; one first year Physics or Chemistry course; Zoology 416 or Geology 200 or another approved Science course and Education 309.

Approved Academic Electives to Accompany a Professional Major

If a student chooses a Professional Major, the remaining courses of his 21-unit block should be approved academic electives. These electives are normally chosen from such teaching subjects as English, French, Geography, History, Mathematics or a science; subjects such as Anthropology, Economics, Political Science or Classical Studies may also be offered because they are regarded as ancillary to teaching subjects such as Geography and History.

For example, if a student chooses as his major, Intermediate Education, which involves the completion of twelve senior units in Education (see above), the remaining nine units of his 21-unit block in the Third and Fourth Years should consist of three approved academic courses chosen from such subjects as indicated above. If he wishes, he may choose three different subjects, for example, History 200, Geography 201, and Classical Studies 331. On the other hand, he may choose all three subjects from one field, especially if he wants to begin a teaching subject which he might plan to complete in his Fifth Year following his B.Ed. (Elementary) Degree. In this case he might elect a first year course in a subject, followed by a second year course in the same subject, and if necessary another second year course. If he already has the first year prerequisite, he might take one or two second year courses in the same subject and a third year course in that subject.

Normally a student would not choose all three electives from first year courses. However, if he wanted to choose three first year science courses to widen his scientific understanding, such a selection would be approved.

A student may elect a first year language course at the 100 level if he plans to continue with the second year course of that language; the third academic elective in this case could be any other course from the approved list. In like manner, he could take a first year science course followed by the second year course in the same science; the third course could be any other course from the approved list.

ACADEMIC MAJORS IN THE ELEMENTARY PROGRAMME

Instead of choosing a professional major in his Third and Fourth Years, a student may elect to complete an approved academic major, selecting one of such teaching subjects as English, Geography, History or Mathematics. He will naturally choose a subject for which he has completed the first year prerequisite course with a mark that gives hope that he will attain the required average of 60% in the nine senior units of the course.

Normally, he will complete in his Third and Fourth Years the second year prerequisite course and a further nine units of senior courses. (If necessary three of these nine units may be another second year prerequisite course.) This further nine units constitutes the major on which an average of 60% must be attained.

A student may have permission to choose as his academic major a subject such as French, where it is not possible to do the second year prerequisite concurrently with a senior course, so long as he realizes that he must do his second year prerequisite course at Summer Session.

Professional Electives to Accompany an Academic Major:

Students electing an academic major in the Third and Fourth Years of the Elementary Programme will complete the 21-unit block with nine units of professional electives (i.e. Education courses).

SECONDARY PROGRAMMES

B1. The Bachelor of Education (SECONDARY) Degree Programme (five years):

This is the standard programme designed for the training of secondary school teachers. It consists of a minimum of 78 units. Every student is required either to major in two subjects ordinarily taught in high school or to take an Honours Course in one such subject. In each major, including prerequisite courses, at least 15 units must be taken, 9 of which must be from senior years. An average of at least 60% is required in the senior courses of each of the majors which constitute a candidate's programme. A candidate who elects to take an Honours Course in one teaching field must be prepared to complete 84 units for the degree.

In the regular 78 (or 84) unit programme, a maximum of 24 units of Education is permitted.

The professional courses listed for the fifth year may not be taken in earlier years.

The standard Secondary Programme ordinarily requires attendance at five winter sessions. Permission to accelerate may be granted by the Dean at the end of the Second Year, if the student has achieved at least Second Class standing in the work of the first two years, and if he can complete the required amount of practice teaching.

The granting of the B.Ed. Degree or of a teaching certificate is dependent upon satisfactory performance in the practice-teaching programme (see page 95).

First Year	<i>Units</i>
English 100 (Lit. and Comp.)	3
History 102 or History 101	3
Two of Mathematics 120 or 121, first year science, first year language other than English	6
*Necessary prerequisite in major subject, or approved elective	3
Second Year	
Education 298 (Observation and Practice Teaching see page 95)	0
Education 200	3
English 200	3
Nine or 12 units in Arts, Science, or Physical Education to complete any omitted courses of the First Year and to complete prerequisites or to commence work in teaching majors (see pages 95 to 98)	9 or 12
Third Year	
Education 301	3
Courses required for majors or Honours (see pages 95 to 98)	15
Fourth Year	
Education 498 (Observation and Practice Teaching see page 95)	0
Education 404 relating to one teaching major	1½
Education 435	1½
English 300 or 400	3
Majors, combined majors, or Honours (see pages 95 to 98).	9 or 12
Fifth Year	
Education 499 (Observation and Practice Teaching see page 95)	0
Education 332	3
Education 400 or 430	3
Education 404 relating to the other teaching major	1½
(Every student is strongly urged to audit an additional course in Education 404)	
Education 410	1½
Two of Education 407, 408, 411, 414, 415, 416, 461	6

NOTE: The student planning to proceed to a Master's degree in Education following completion of his undergraduate degree work is advised to seek advice concerning his choice of electives.

*Normally a student may take 18 units in his first year only if he has a Grade XII average of 65% or higher, and only if he has chosen a major in a science where he has several first year science courses to complete.

OTHER PROGRAMMES — Secondary Field

B2. Three-Year Programme for Teachers Holding the Elementary Basic Teaching Certificate:

Third Year	<i>Units</i>
(see Note 1 below)	
Courses required for majors or honours or prerequisites thereto	18
It is assumed that the candidates will already have completed in the first two years: English 200; two of Mathematics 120, a first year Science, a first year language other than English; and History 101 or 102.	
Fourth and Fifth Years	
(see Note 1 below)	
English 300 or 400 (see Note 2 below)	3
Courses required for majors in two teaching subjects	21
One of Education 332 or 400 or 430	3
Education 404 (corresponding to each of the teaching majors). (See notes 3 and 4 below)	3-6
TOTAL	48-51

NOTES:

1. Where the student's programme permits electives, these should ordinarily be chosen from the academic subjects. Only three units of Education courses other than those which are required may be counted for degree credit. Courses relating to teaching in the elementary school will not be accepted for credit. Any one of the following courses will carry credit: Education 309, 332, 400, 407, 408, 411, 414, 415, 416, 417, 428, 430, 460, 461.
The student planning to proceed to a Master's degree in Education following completion of his undergraduate degree work is advised to seek advice concerning his choice of electives.
2. All English majors (secondary programme) must complete English 400 instead of English 300.
3. Where appropriate to the student's teaching major, Education 305 or 307 may be substituted for the Education 404 course in the corresponding subject matter field.
4. A student attending Fourth or Fifth Year in Winter Session will be required to do Education 498. He will take at least one Ed. 404 teaching subject concurrently.

B3. One-Year Programme (Secondary) for Graduates:

Although the requirements for the Interim P.B. Certificate are satisfied by this programme, a further 6 units taken subsequently to the One-Year Programme for Graduates are needed to satisfy the requirements for the permanent Professional Basic Certificate. These 6 units must be in Education unless otherwise specified by the Committee on Admissions, Standing and Courses.

	<i>Units</i>
Education 499 (Observation and Practice Teaching)	0
Education 301	3
Education 400	3
Education 404	3
Education 410	1½
Education 435	1½
One of Education 332, 407, 408, 411, 414, 415, 416, 461	3

NOTES: Students may *not* take an academic subject concurrently with the professional programme.

None of these courses may be taken in advance of this Professional Year, which is always a winter session programme.

4. The B.Ed. Degree Programme for Graduates has been discontinued.

**PRACTICE TEACHING LABORATORY AND SEMINAR REQUIREMENTS
IN THE SECONDARY PROGRAMME**

The granting of the B.Ed. degree or of a teaching certificate is dependent upon satisfactory performance in the seminar and laboratory courses outlined below.

All students except those in the First and Third Years of the Secondary Programme will be assigned to a one hour weekly seminar under the direction of a selected Faculty Adviser.

Student participation in laboratory activities in the schools, whether it be observation, teaching practice, demonstration lessons, or field trips, is *required*. A Laboratory Note-book is *required*.

Students in the Second (Ed. 298) and Fourth (Ed. 498) Years of the Secondary Programme will have their observation, demonstrations, and teaching practice on Thursday afternoons. In making their time-tables they should keep Thursday clear from 11:30 a.m. on.

Students of the Fifth Year Secondary and of the One Year Professional Programme for Graduates (Secondary) will have their observation, demonstrations, and practice-teaching (Ed. 499) on Thursdays of each week. They will also have a one-week practicum in November, a two-week practicum in February, and a three-week practicum at the end of the session (May). Students who fail their practice-teaching in this professional year have all their course credits of the year withheld.

Students who have transferred from the Elementary Programme at the end of the Second Year are required to take Education 498 during one year if either fourth or fifth years is done in winter session; Education 498 should be done concurrently with Education 404 relating to one or more teaching majors.

TEACHING MAJORS FOR SECONDARY TEACHERS

Candidates must major in two, or complete an Honours equivalent in one of the following subject areas. An average of 60% at least is required in the senior courses of each of the majors which constitute a candidate's programme. Arrangements for an Honours Course in a teaching subject are indicated on page 98.

Only with the prior permission of the Dean may exceptions be granted in any of the following requirements for majors.

Art

First and Second Years: Fine Arts 101, 300.

Senior Years: Fine Arts 301, 302 and any two of Fine Arts 401, 402, 305, 405.

Art (Double Major)

First and Second Years: Fine Arts 101, 300, 301, 302.

Senior Years: Fine Arts 401, 402; Fine Arts 305, 405, 415; Fine Arts 404, 425 (or approved substitute for 425).

Biological Sciences

First and Second Years: Botany 105, Zoology 105, Mathematics 120 or 121. Chemistry 102, Physics 101, Geology 200. (If necessary Geology may be deferred to Third or Fourth Year.)

Senior Years: One of Botany 205, Zoology 202; one of Botany 331, Zoology 303, Zoology 430; one of Botany 404, Biology 320, Zoology 416, Biology 332-3, Zoology 301.

NOTE: Botany 205 or Zoology 202 should be taken before 300 or 400 courses of the same subject respectively. Students should seek the advice of their instructors in planning their choice of courses.

NOTE: Only one of English 200 or 300 need be taken.

Chemistry

First and Second Years: Mathematics 120 or 121 and 220 or 221, Physics 101, Biology 105 (or Botany 105 and Zoology 105), Chemistry 102 and 224, Geology 200 (if necessary Geology 200 may be deferred to Third or Fourth Year).

Senior Years: Chemistry 233, 326, and three additional units chosen from Third or Fourth Year Chemistry; Chemistry 344 is highly recommended as the choice in this third course.

If there is a place in a student's programme where he can fit in Chemistry 477 (1 unit), it is recommended that he do so.

NOTE: Only one of English 200 or 300 need be taken.

English

First and Second Years: English 100, 200.

Senior Years: One of English 411, 413; one of English 424, 426, 430, 431; one of English 427, 429, 433, 434, 435.

NOTES: 1. English 400 rather than English 300 must accompany a secondary English major.

2. A language other than English to the 200 level is required.

French

First and Second Years: French 120, 220, 223.

Senior Years: 9 units of French courses numbered higher than 300, including 302.

NOTE: Election of one course in Latin, Greek, another modern language, or linguistics, is recommended.

Geography

First and Second Years: History 102 and 101 or 200, Geography 101 and one of 201, 203, 204.

Senior Years: (a) one of Geography 204 (if not already taken), 308, 312, 408, 410; (b) one of Geography 304, 307, 302, 305, 311, 301, 310, 403, 405 (note prerequisites of italicized courses); (c) three additional units chosen from (a) or (b), a regional course being advised.

Election of an additional course in *History*, Anthropology, Political Science, Sociology or Economics is recommended.

NOTE: The combination of Geography and History majors is not highly advised because it leads to only one teaching subject, Social Studies. However, if a student does choose these two majors, he must follow the programme outlined below for the Geography and History (Combined Majors).

Geography and History (Combined Majors)

NOTE: *The combination of Geography and History as majors has the disadvantage that it leads to only one real teaching subject, Social Studies.*

First and Second Years: History 102 and 101 or 200; Geography 101 and 201 or 203 or 204; and one of Anthropology 200, Economics 200, Political Science 200, Sociology 200.

NOTE: One of the above may be postponed until Third Year.

Senior Years: (a) one of Geography 204 (if not already taken), 308, 312, 403, 410; (b) one of Geography 304, 307, 302, 305, 301, 311, 310, 403, 405 (note prerequisites of italicized courses); (c) three additional units chosen from (a) or (b), a regional course being advised; (d) one of History 201, 212, 305, 311, 411; (e) one of History 304, 313, 314, 400, 415 or Classical Studies 331; (f) another senior History course (or, if the student has already completed 12 units selected from the regular offerings of the History Department, a course acceptable for credit in History).

Additional required course: three units of Anthropology, Economics, International Studies, Political Science, or Sociology.

German

For students wishing to major in German and a second language other than English, French is strongly recommended.

First and Second Years: German 120 (or 110), German 200, German 223.

Senior Years: German 410 plus two additional senior German courses.

NOTE: Election of an additional course in German is strongly advised and election of one course in Latin, Greek, another modern language, or linguistics, is recommended.

History

First and Second Years: History 102 and one of History 101 or 200.

Senior Years: *One* of History 201, 212, 305, 311, 411; *one* of History 304, 313, 314, 400, 415 or Classical Studies 331; *another* senior History course (or, if the student has completed 12 units selected from the regular offerings of the History Department, a course acceptable for credit in History).

Additional required course: Geography 303. However, if the student has already completed Geography 101, he must substitute for Geography 303 another Geography course, preferably Geography 204 or a regional course.

Election of an additional course in Geography, Anthropology, Political Science, Sociology, or Economics is strongly recommended.

NOTE: The combination of History and Geography as majors is not highly advised because it leads to only one teaching subject, Social Studies. However, if a student does choose these two majors, he must follow the programme outlined above for the Geography and History (Combined Majors).

Industrial Education (Double Major)

All students who plan to enter Industrial Education should arrange an interview with the Co-ordinator of Teacher Education in Industrial Education at the B.C. Vocational School, 3650 Willingdon Avenue, Burnaby 2, B.C. Candidates who live in or near Victoria should arrange to see Mr. Victor E. Rickard or Mr. J. Cooper at the Department of Education, Douglas Building, Victoria, B.C.

On completion of a successful first year in the B.Ed. Secondary Programme as listed below, candidates are screened by a Selection Committee. Approval is based upon academic achievement, technical aptitude, maturity and personal suitability. A student who does not pass his first year courses is not likely to be chosen for further progress in this major. In January of his First Year the student must make written application to the Co-ordinator of Teacher Education in Industrial Education (see above). The decision of the Selection Committee will be made known in May after final results of the First Year are known.

First Year: English 100; History 102 or 101; Physics 101 or 103, or Chemistry 102; Mathematics 120 or 121; and an approved elective.*

*NOTE: Students are strongly advised to elect the second science mentioned above. With the written permission of the Dean a student may elect another course, such as the first year of French or German.

Latin

First and Second Years: Latin 120 (or 110), 220 (or 210).

Senior Years: Latin 320 and two of 330, 340, 350.

NOTE: Election of Classical Studies 331 is strongly advised and Greek 100 is recommended.

Mathematics

First and Second Years: *Mathematics 120 and 220.

Senior Years: *Mathematics 222 and two of Mathematics 330, 333 and 337.

NOTES: 1. If students are able to fit Mathematics 222 into their second year without neglect of their other requirements (especially Education 200 and 298) they are advised to do so, thus taking it concurrently with Mathematics 220.

2. Students are strongly advised to take three senior mathematics courses.

*With the permission of the Mathematics Department an able student may substitute one or all of Mathematics 121, 221, 223 (Honours courses) for 120, 220, 222 respectively.

Music

A full major in Music has not been authorized by the Senate of this University
Prerequisites: Previous music training satisfactory to the Music Section of the Faculty of Education.

First Year: Music 101; Fine Arts 101 or Music 120.

Second and Senior Years: Not offered in 1964-65. The possibility of a Major in Music is under study by the Senate of the University.

Physical Education

A full major in Physical Education has not been authorized by the Senate of the University.

First Year: Physical Education 105.

Second and Senior Years: Not offered in 1964-65. The possibility of a Major in Physical Education is under study by the Senate of the University.

Physics

First and Second Years: Mathematics 120 or 121 and 220 or 221, Biology 105 (or Botany 105 and Zoology 105), Chemistry 102, Physics 101 and 211, Geology 200 (if necessary, Geology 200 may be deferred to the Third or Fourth Year).

Senior Years: Physics 332, 312, 413, and Mathematics 330. Mathematics 330 must be taken before, or concurrently with, Physics 322 or 312. Mathematics 330 must precede Physics 413.

NOTE: Only one of English 200 or 300 need be taken.

Theatre

Since this major is not a teaching subject widely used in British Columbia, a student wishing to choose it may do so only with permission of the Dean.

First and Second Years: English 100 and Theatre 200 concurrently with English 200. (Education 200 and 298 must be taken in the Second Year.)

Senior Years: Theatre 330; one of Theatre 320 or 310 (chosen in consultation with the Department of English — preferably Theatre 320); one of Theatre 301, English 413.

Zoology and Botany (Double Major)

First and Second Years: Botany 105, Chemistry 102, Mathematics 120 or 121, Physics 101, Zoology 105, Geology 200 (if necessary Geology 200 may be deferred to the Third or Fourth Year).

Senior Years: 9 units in Botany or Biology courses acceptable in a Botany Major and 9 units in Zoology or Biology courses acceptable in a Zoology Major. These courses are to include: Botany 205, Zoology 202, Biology 332-3; at least one of Biology 320, Botany 404, Zoology 416; at least one of Botany 331, Zoology 303, Zoology 430; one other course in Zoology, Botany or Biology.

An additional course in Chemistry, Physics, or Mathematics is strongly recommended.

NOTES: 1. Only one of English 200 or English 300 need be taken.

2. Students are advised to consult their instructors to make sure that they are getting their prerequisites and a proper sequence as they go along.

HONOURS COURSES

Students who have the required standing at the end of the second year of the Bachelor of Education programme may, after consultation with the Dean, embark upon an honours programme in a subject ordinarily taught in the secondary schools of British Columbia. Such specialization in a single subject requires completion of 84 units of work in the five years of the Bachelor of Education programme. Further details will be found under the subject heading in the section dealing with courses in Arts and Science, pages 37 to 78.

UNDERGRADUATE COURSES IN EDUCATION

102. (3) **Principles of Teaching**

The bases of the learning and teaching processes; the nature, aims and purposes of Education; the application of educational principles in preparing and presenting lessons, in developing good questioning techniques, in the use of teaching aids and in maintaining discipline. Prerequisite to all courses in educational psychology for elementary teachers.

Texts: *Manual of School Law*; Mouly, *Psychology for Effective Teaching*, 1961. (3-0; 3-0)

197. (0) **Seminar and Practice Teaching**

One hour per week seminar. Tuesday mornings, observation and participation in elementary schools. Demonstration lessons and field trips as arranged. Individual tuition from faculty adviser. Compulsory two-week post-session practicalum (see page 90). (1-3; 1-3)

200. (3) **Introduction to Secondary Education**

An introductory treatment of the nature, aims and purposes of secondary education; the characteristics of good teaching and good teachers; the preparation of various types of lessons; techniques of questioning; provision for individual differences; testing; reporting to parents; classroom organization; maintenance of discipline; audio-visual techniques; speech education.

Text: Bent and Kronenberg, *Principles of Secondary Education*, 1961. (3-0; 3-0)

201. (1½) **Curriculum and Instruction in Elementary Science**

A study of (a) the curriculum organization in science and health for the elementary grades; (b) techniques of instruction in science for these grades.

Text: Lewis and Potter, *The Teaching of Science in the Elementary School*, 1961. (1½-0; 1½-0)

202. (1½) **Curriculum and Instruction in Elementary Social Studies**

A study of (a) curriculum organization in social studies for elementary grades; (b) techniques of instruction in social studies for these grades.

Texts: Ministry of Education Pamphlet No. 23, *Teaching History*, London, 1933; Thralls, *The Teaching of Geography*, 1956 (for those with main interest in the Primary level); Garnett, *Fundamentals in School Geography*, 1956; The choice of an atlas will be discussed. (an atlas will be required.) (1½-0; 1½-0)

203. (3) **Curriculum and Instruction in the Language Arts, and Integrated Subjects of the Primary Grades**

A study of (a) the curriculum organization; (b) techniques of instruction in these grades.

Texts: Affleck, M. A. et al, *Language Journeys, Grades One and Two*, 1963; Russell, D. H., *Children Learn to Read*, 2nd Ed., 1961; *Programme of Studies for the Elementary Schools, Primary Grades*. (3-0; 3-0)

204. (3) **Curriculum and Instruction in the Language Arts**

Intermediate grade emphasis. A study of (a) the curriculum organization in the language arts particularly in the intermediate grades; (b) techniques of instruction in these subjects and grades.

Texts: Hall, *Growth Through the Language Arts*; Gerrard and McInnes, *Improving your Teaching of Reading Skills; Reading Through Phonics, Book IV, Workbook*. (3-0; 3-0)

205. (1) **Curriculum and Instruction in Art**

A study of (a) the curriculum organization in art for the elementary grades; (b) techniques of instruction in art for these grades. (1½-0; 1½-0)

207. (1) **Curriculum and Instruction in Music**

A study of (a) the curriculum organization in music for the elementary grades; (b) techniques of instruction in music for these grades.

Text: Pierce, *Teaching Music in the Elementary School*, 1959. (1-0; 1-0)

209. (1) **Curriculum and Instruction in Physical Education**

A study of (a) the curriculum organization in physical education for the elementary and junior secondary grades; (b) techniques of instruction in physical education for these grades.

Text: Dauer, Victor P., *Fitness for Elementary School Children Through Physical Education*, 1962. (1½-0; 1½-0)

297. (0) **Seminar and Practice Teaching**

One hour per week seminar. Full day Thursday, observation and participation in elementary schools. One week practicum in fall term, two week practicum in spring term, three week post-sessional practicum. Demonstration lessons and field trips as arranged. Individual tuition from faculty adviser. Attendance at all activities is required. A laboratory note-book is required. (see page 90). (1-5; 1-5)

298. (0) **Seminar and Practice Teaching**

One hour per week seminar. Half day each week, observation and participation in junior high schools (Thursday afternoon). Demonstration lessons and field trips as arranged. Individual tuition from faculty adviser. In planning their time-table students should keep Thursday free from 11:30 a.m. on (see page 95). (1-3; 1-3)

301. (3) **Educational Psychology**

The learner; the learning process; adjustment of the learning situation to individual differences; the adjustment process; mental health.

Text: To be announced. (3-0; 3-0)

305. (3) **Art Education**

A study of the growth and development of art education; discussion and use of various art media; the function and purpose of art in school and society; practical studio activities; modern methods and curricula in art education. Prerequisite: Education 205 (or equivalent). (1-2; 1-2)

306. (3) **Health Education**

(Not offered in 1964-65.)

307. (3) **Music Education**

A study of modern methods, materials, objectives, and philosophy pertaining to the teaching of music in elementary and secondary schools. Prerequisite: Education 207 or equivalent.

Text: To be announced. (3-0; 3-0)

308. (3) **Physical Education**

(Not offered in 1964-65.)

309. (3) **General Science for Elementary and Junior Secondary School Teachers**

General science as a systematic study of our environment and man's relation to it will cover such topics as living things, matter, energy, earth science, and the universe. Techniques of science, the improvisation and acquisition of necessary equipment, utilization of community resources. The course is intended to provide teachers with a broad background for teaching general science.

Texts: Cable, Getchell, Kadesch and Poppy, *The Physical Sciences*; Asimov, *The Wellsprings of Life*, 1961; Carl, *Guide to Marine Life of B.C.*; Galston, *The Life of the Green Plant*, 1961; Pearl, *How to Know the Minerals and Rocks*, 1957; Buchsbaum, *Animals Without Backbones (2)*. (3-2; 3-2)

331. (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.

Text: Crow and Crow, *Child Development and Adjustment*. (3-0; 3-0)

332. (3) **Psychology of Adolescence**

The physiological, psychological, social and educational aspects of adolescence. Review of research.

Text: Cole, L., *Psychology of Adolescence*, 5th Ed., 1960. (3-0; 3-0)

333. (3) **Special Problems of Pre-School Education**
(Not offered in 1964-65.)

336. (3) **Modern Theories of Pre-School Education**
(Not offered in 1964-65.)

400. (3) **Survey of Educational Thought**

This is an introductory course in which consideration is given to both the historical and philosophical foundations of education and to the practical bearings of theory upon curriculum content and classroom practice in our schools. Reading assignments, topical reports and term papers form an important part of the course.

Texts: Curtis and Boulwood, *A Short History of Educational Ideas*; Hansen, *Philosophy for American Education*, 1960. (3-0; 3-0)

401. (3) **Theoretical Bases of Educational Psychology**
(Not offered in 1964-65.)

404. (3) **Curriculum and Instruction in the Specific Secondary School Subjects**

Each course in this area includes, for the particular subject concerned, a consideration of the objectives, the scope and content of the curriculum, the learning processes applied to the particular subject, the methods of presentation, and the materials of instruction. Consideration will also be given to evaluation of pupil progress, and diagnosis of and remedy for individual and group difficulties.

Students are required to take Education 404 courses corresponding to each of their two teaching majors.

The following Education 404 courses are offered in 1964-65: Biology and General Science, English, French, Geography and Social Studies, History and Social Studies, Latin, Mathematics, Physics and General Science.

Texts: Ed. 404 (English): Bernstein, *Teaching English in High School*, 1961; Ed. 404 (Geography): Hardwick, *History and Geography Teaching Materials*, 1964; Cons and Honeybone, *Handbook for Geography Teachers*, 1960; Others to be announced. (4-0; 4-0)

405. (3) **Curriculum and Instruction in the Kindergarten and Primary Grades — Advanced.**

Current research findings; trends and problems dealing with personality development, classroom management, and the programme of instruction in the kindergarten and grades one, two, and three.

Text: Logan, *Teaching the Young Child*, 1960. (3-0; 3-0)

406. (3) **Curriculum and Instruction in the Intermediate Grades — Advanced**
(Not offered in 1964-65.)

407. (3) **Introduction to the Study of Exceptional Children**

A course covering all groups of exceptional children — definitions, diagnosis, classification and treatment.

Text: Dunn, *Exceptional Children in the Schools*, 1963.

408. (3) **Teaching the Mentally Superior**

The characteristics, needs and abilities of mentally superior and specially talented children; identification, classification, educational research; planning suitable educational programmes at both elementary and secondary levels; methods of teaching.

Text: Crow and Crow, *Educating the Academically Able*, 1963. (3-0; 3-0)

410. (1½) **The Organization and Administration of B.C. Schools**

Functions and duties of trustees, superintendents, principals, supervisors, and teachers in the modern school as based on the Manual of School Law and the Administrative Bulletins. The administration and operation of the individual school. Classroom organization and control. Co-curricular activities. Working relations among the Department of Education, trustees, principals, teachers and parents. Consideration of the Reports of Commissions on Education.

Texts: *Manual of School Law*; *Administrative Bulletin for Secondary Schools*, 1964. (1½-0; 1½-0)

411. (3) **Guidance and Counselling Services in Schools**
 An introduction to guidance principles and practices.
 Texts: To be announced. (3-0; 3-0)
414. (3) **Audio-Visual Education**
 (Not offered in 1964-65.)
415. (3) **Developmental Reading**
 The problems of teaching reading, grades I-XII; the nature and psychology of reading; the basic skills and abilities; evaluating reading, remedial reading.
 Texts: Laird, *The Miracle of Language*; Stefferud, *The Wonderful World of Books*. (3-0; 3-0)
416. (3) **Speech Education**
 (Not offered in 1964-65.)
417. (3) **Educating the Slow Learner and the Emotionally Handicapped**
 (Not offered in 1964-65.)
419. (3) **Introduction to Speech Correction**
 (Not offered in 1964-65.)
420. (3) **Educating the Mentally Retarded**
 (Not offered in 1964-65.)
421. (3) **Teaching the Partially Seeing Child**
 (Not offered in 1964-65.)
422. (1 ½) **Phonetics**
 (Not offered in 1964-65.)
423. (1 ½) **Problems of the Deaf and Hard-of-Hearing**
 (Not offered in 1964-65.)
424. (3) **Principles of Speech Correction**
 (Not offered in 1964-65.)
428. (3) **Mental Health in the School**
 (Not offered in 1964-65.)
430. (3) **History of Education**
 (Not offered in 1964-65.)
435. (1 ½) **Introduction to Evaluation**
 A study of the construction, use and interpretation of educational achievement tests, including the following elementary statistics: measures of central tendency, measures of variability, standard scores, and simple methods of correlation.
 Text: Downie, *Fundamentals of Measurement*. (1½-0; 1½-0)
461. (3) **Educational Diagnosis and Remedial Instruction**
 Interpretation of informal and standardized test scores in educational diagnosis; estimates of actual and optimum levels of individual achievement; individual differences as factors, affecting performance; methods of encouraging the optimum achievement of individuals; methods and practice materials for remedial teaching. Students intending to take both Education 461 and Education 415 should take Education 415 either prior to or concurrently with Education 461.
 Text: Brueckner and Bond, *The Diagnosis and Treatment of Learning Difficulties*. (3-0; 3-0)
460. (3) **An Introduction to School Administration**
 (Not offered in 1964-65.)

470. (3) **Educational Sociology**
(Not offered in 1964-65.)

498. (0) **Seminar and Practice Teaching**

A one-hour seminar each week. Half day observation and teaching practice in the secondary schools each week (Thursday afternoon). Demonstrations to be arranged. Individual conferences with faculty adviser. A two-week post-sessional practicum may be arranged.

In planning their time-tables, students should keep Thursday free from 11:30 on (see page 95). (1-3; 1-3)

499. (0) **Seminar and Practice Teaching**

A one-hour seminar each week. A full day of observation and teaching practice in the secondary schools each week (Thursday). A one-week practicum in the fall term, two-week practicum in the spring term, and a three-week post-sessional practicum. Demonstrations to be arranged. Individual conferences with faculty adviser. Attendance at all activities is required. A laboratory note-book is required. (see page 95). (1-5; 1-5)

EDUCATION FINE ARTS

101. (3) **History of the Fine Arts**

History of art, architecture, and music with emphasis upon the cultural development of mankind through the ages. Appreciation and understanding will be encouraged through illustration and discussion of major works.

Texts: H. W. Janson, *History of Art*, 1962; Homer Ulrich, *Music; A Design for Listening*, 1957. (3-0; 3-0)

300. (3) **Introduction to the Plastic and Graphic Arts (3)**

Experiment and study of various media of art expression as a basis for advanced work for an art major. This course is an introduction to the four major areas, painting, ceramics, design, and print-making. Students will be expected to submit a sketch-book of work as part of the final mark. (3-0; 3-0)

301. (3) **Drawing and Composition**

A basic course in drawing in various media. A study of the fundamentals of composition and picture analysis. Students will be expected to submit a sketch-book of work as part of the final mark. (3-0; 3-0)

302. (3) **Drawing and Painting**

Designed to form the basis for any advanced work towards an art major. The fundamentals of both techniques will be explored using still life, figure and landscape. Students will be expected to submit a sketch-book of work done outside of class as part of the final mark. (3-0; 3-0)

305. (3) **Design I**

This course will include studio experiment in both two- and three-dimensional design problems with the purpose of developing a fuller understanding of the fundamental design principles. Prerequisites: Fine Arts 300 and 302 or equivalent courses. (3-0; 3-0)

401. (3) **Painting I**

The skills and techniques of the medium will be developed by experiments and problems. Studio and outdoor subjects will be used. A sketch-book must be submitted as part of the final mark. Prerequisites: Fine Arts 300 and 302 or equivalent courses. (3-0; 3-0)

402. (3) **Painting II**

The skills and techniques of the medium will be developed by experiments and problems. Studio and outdoor subjects will be used. A sketch-book will be submitted as part of the final mark. Prerequisites: Fine Arts 300 and 302 or equivalent courses. (3-0; 3-0)

404. (3) **Essay or Special Study**

An extensive study of a particular field of Fine Arts or Art Education. Experimental research will be carried out under the direction of Faculty. The essay must be submitted in final form on or before the end of sessional examinations.

405. (3) **Design II**

This course will apply experiment and technique to specific design problems with emphasis on such aspects of design as decoration, industrial design, and fabric design. Prerequisite: Fine Arts 305 or equivalent course. (3-0; 3-0)

415. (3) **Design III**

A special study in an advanced field of design. Prerequisite: Fine Arts 405 or equivalent course. (3-0; 3-0)

EDUCATION MUSIC

101. **Elementary Theory**

A study of the contrapuntal, harmonic and formal aspects of music.

Text: Robert Ottman, *Elementary Harmony*. (3-0; 3-0)

120. (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.

Text: McKinney and Anderson, *Music in History: The Evaluation of an Art*, Second Edition. (3-0; 3-0)

PHYSICAL EDUCATION

105. (3) **Activities**

Instruction and practice in swimming, gymnastics, volleyball, rhythmic and games, contests and relays. This is the only course offered toward a Physical Education Major in 1964-65. (0-4; 0-4)

Pre-Professional Education

PRE-PROFESSIONAL EDUCATION

Until July 1, 1963, Victoria College (now University of Victoria) was affiliated with the University of British Columbia, Vancouver 8, B.C. Under the terms of the affiliation, course numbers were the same at both institutions. In consequence, students were able to transfer credits with but little formality. Now that the universities are separate, with each operating as an academic and administrative entity, students undertaking pre-professional studies at University of Victoria with the intention of transferring later to the University of British Columbia should examine carefully the U.B.C. Calendar prescriptions for the professional course they plan to take at a later time. The same is true if students intend to transfer to other universities, either in Canada or elsewhere.

The material which follows is only a *guide* to pre-professional education at the University of British Columbia, and students must not assume that completion of these courses will grant them automatic admission to the University of British Columbia: each university within the provincial system of higher education sets its own requirements for the admission and promotion of students. Students who are seeking advice about pre-professional education should *first* see the Registrar or the Director of Counselling and Testing, University of Victoria, before approaching the Registrar of the University of British Columbia.

Please note that the courses suggested are shown with the course numbers used at University of Victoria. Note too that course programmes for First Year students only are outlined.

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 University of Victoria.

AGRICULTURE

Suggested courses:

Botany 105 or Zoology 105
Chemistry 102
English 100
Mathematics 120 or 121
elective

APPLIED SCIENCE

Suggested courses:

English 100
Mathematics 121
Chemistry 102
Physics 101
Language: one of Latin 110 or 120,
French 110 or 120, German 90 or
110 or 120, Russian 100.

ARCHITECTURE

Suggested courses:

English 100, 200
Mathematics 120 or 121
Physics 101
Fine Arts 126

COMMERCE AND BUSINESS ADMINISTRATION

Students interested in Commerce and Business Administration are advised to consult the Head of the Department of Economics and Political Science, University of Victoria.

Suggested course:

Students who have completed First Year Arts and Science or its equivalent with standing in 15 units (including English 100 and Mathematics 120 or 121) are admissible.

DENTISTRY

Suggested courses:

English 100
Foreign language at 100 level
Mathematics 120 or 121
Chemistry 102
Zoology 105, or Physics 101

HOME ECONOMICS

Suggested courses:

English 100
Chemistry 102
Physics 103, if Physics 91 not
already taken
Mathematics 120 or 121
Zoology 105, or Bacteriology 100

FORESTRY

Suggested courses:
 Botany 105 or Physics 101
 Chemistry 102
 English 100
 Mathematics 120 or 121
 one additional course

MEDICINE

Suggested courses:
 English 100
 Mathematics 120 or 121
 Chemistry 102
 Physics 101, or Zoology 105
 Foreign Language

PHARMACY

Chemistry 102
 English 100
 Mathematics 120 or 121
 Physics 101 or Zoology 105
 Approved elective

LAW

Suggested course:
 First Year Arts and Science

NURSING

Suggested courses:
 BSN
 English 100
 Chemistry 102
 Mathematics 120 or 121
 Zoology 105
 Approved elective

PHYSIOTHERAPY

Chemistry 100 or 102
 English 100
 Foreign language at 100 level or
 Psychology 100
 Mathematics 120 or 121
 Zoology 105

PSYCHOLOGY

Students wishing to enter a professional school of psychology are advised to complete the B.A. Honours or B.Se. 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

English 100
 Mathematics 120 or 121
 Zoology 105, or Bacteriology 100
 Chemistry 100 or 102
 elective

*Scholarships, Prizes
and Bursaries*

SCHOLARSHIPS, PRIZES AND BURSARIES

GENERAL REGULATIONS

To be eligible for a general proficiency scholarship a student must take the full year's course, which must include the required courses for the year in which he is registered. Where credit has already been obtained in a required subject, however, another course may be substituted, with the permission of Faculty.

The standing of students taking more than the required number of units will be determined on the basis of the required number of units to be chosen in a manner most advantageous to the students.

The Committee on Prizes and Scholarships reserves the right to limit the amount of money retained by a student and/or to reassign scholarships (by reversion).

This section of the Calendar shows scholarships, prizes and bursaries grouped under certain headings. General inquiries should be directed to the Director of Counselling and Testing or to the Registrar.

1. Awards available for which no application is necessary: selection of the recipients is made by the University Committee on Prizes and Scholarships. See pages 110 to 113.
2. Awards for which application must be made to the University Committee on Prizes and Scholarships. See pages 114 and 115.
3. Awards available for students in the Faculty of Education only. See page 116. See also pages 121 and 122.
4. Government of British Columbia Scholarships. See pages 116 and 117.
5. Awards available to students who have completed University Entrance and are now proceeding to University of Victoria. See pages 117 to 121.
6. Scholarships for which applications must be made through U.B.C. See pages 121 and 122.
7. Bursaries. See pages 123 to 125.
8. Awards made by other Institutions. See pages 125 to 133.
9. The Student Aid Loan Fund. See page 133.
10. Other Loan Funds. See pages 133 and 134.

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 a Committee, to a student in the First or Second Year and, unless service in the Armed Forces intervenes, proceeding immediately towards a degree.

ROYAL INSTITUTION AND FRANK EATON MEMORIAL SCHOLARSHIP— Fifty dollars (\$50) awarded to the student taking the highest standing in English of the second year.

ALLIANCE FRANCAISE PRIZE— One hundred dollars (\$100) awarded 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.

T. EATON COMPANY (Canada) LTD. SCHOLARSHIP— Two hundred dollars (\$200) awarded to a first year student of high standing in Mathematics 120 or 121, and, preferably, with a first-class average. The winner must continue at University of Victoria.

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 Kiwanis Club of Victoria in conference with the Faculty.

QUITA NICHOL BURSARIES — Two hundred dollars (\$200) donated annually to the University by Mrs. W. C. Nichol, to provide scholarships in first and second year French. Two prizes of \$100 and \$50, respectively, will be awarded in the first year, and one prize of \$50 in the second year. These prizes are normally awarded on merit, but, if necessary, special circumstances may be taken into consideration. Students must continue at University of Victoria.

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 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.

THE KATHLEEN AGNEW SCHOLARSHIP — One hundred and fifty dollars (\$150) donated for the purpose of stimulating the study of the History of Canada.

SIDNEY ROOFING AND PAPER COMPANY SCHOLARSHIP — Two hundred and fifty dollars (\$250) awarded to the leading student of the second year, on condition that he continue his university studies without interruption in the third year.

THE BRITISH AMERICA PAINT COMPANY SCHOLARSHIP — One hundred dollars (\$100) awarded annually to the leader of Second Year Chemistry.

LIONS CLUB SCHOLARSHIP — One hundred dollars (\$100) awarded annually to the student obtaining the highest standing in Zoology 105 or Botany 105 and Chemistry 100 or 102, and continuing similar work at University of Victoria.

VICTORIA GYRO CLUB SCHOLARSHIP — Two hundred dollars (\$200) awarded annually to a male student completing his first year at University of Victoria. The recipient is to be selected annually by a committee of the Gyro Club, upon the recommendation of the President of the University, on the basis of qualities of leadership, distinction of mind, and merit in games.

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY SCHOLARSHIPS — Scholarships totalling \$1,000 to be awarded for 1964-65 on terms to be arranged.

KINSMEN CLUB OF VICTORIA SCHOLARSHIP — Two hundred and fifty dollars (\$250) awarded annually to a student. The recipient is to be selected by a committee of the Kinsmen Club, on the basis of outstanding scholastic ability and promise, upon the recommendation of the Faculty.

ESTHER PEARCE MEMORIAL PRIZE — Fifty dollars (\$50) awarded annually by Chapter N, P.E.O. Sisterhood, to a woman student in First Year for excellence in English.

JOHN WESLEY AND EMILY E. CHURCH MEMORIAL SCHOLARSHIP — One hundred dollars (\$100) awarded annually by Mr. W. J. V. Church and Mr. C. A. J. Church to the student winning highest standing in Latin (Latin 90 or Latin 110 or 120), or in Greek, or in Latin and Greek, in the first year, and continuing with the subject (or subjects) in the second year.

BRITISH COLUMBIA CEMENT COMPANY 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 University of Victoria or at any other university.

CAMOSUN GYRO CLUB SCHOLARSHIP — The Camosun Gyro Club of Victoria will present a scholarship 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. The selection of the candidate shall be left to the discretion of the Scholarship Committee.

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 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.
- THE BENNY NICHOLAS MEMORIAL AWARD — One hundred dollars (\$100) presented annually by the Victoria Daily *Times* to the student who submits the best essay, poem, play or article.
- THE ISLAND TUG AND BARGE, LIMITED, SCHOLARSHIP — One hundred and fifty dollars (\$150) awarded annually to the student leading courses numbered 200 in any two of the following departments: Botany, Chemistry, Geography, Geology, Mathematics, Physics, Zoology. The winner must continue his academic work at an approved university.
- VICTORIA MUNICIPAL CHAPTER, I.O.D.E. SCHOLARSHIP — One hundred dollars (\$100) awarded to an outstanding student in Canadian History in any year.
- THE FRED SPENCER SCHOLARSHIP — One hundred dollars (\$100) presented annually by Spencer's Stores Limited to an outstanding First Year student who is planning a business career and who is either continuing his studies at a recognized university or is articled to a chartered accountant. The candidate is to be selected by the Committee on Prizes and Scholarships.
- THE GEORGE HAMILTON HARMAN MEMORIAL SCHOLARSHIP — This scholarship, made available by Miss Emily A. Harman of Toronto in memory of her late brother, is awarded for proficiency in studies in money and banking or in Economics.
- 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.
- THE ALAN PRATT MEMORIAL SCHOLARSHIP — One hundred dollars (\$100) awarded annually to a student with broad interests completing Second Year.
- THE HAROLD M. DIGGON MEMORIAL BURSARY — Two hundred dollars (\$200) to be awarded annually by Mrs. Lucy E. Diggon to a promising and deserving student of the Humanities who has completed Second Year and who intends to continue University studies.
- 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.
- 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.
- THE VICTORIA MEDICAL SOCIETY SCHOLARSHIP — Two hundred and fifty dollars (\$250) 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 scholarship. Selection of the student will be made by the Faculty.
- RITHET CONSOLIDATED LIMITED BURSARY — One hundred dollars (\$100) to be offered to a promising student registered at University of Victoria and continuing academic studies. Selection of the student will be made by the Committee on Prizes and Scholarships.
- VICTORIA NATURAL HISTORY SOCIETY SCHOLARSHIP — Awarded to the most deserving student completing First or Second Year and specializing in Biology. The award is in the amount of one hundred dollars (\$100) for the academic year 1964-65.
- VICTORIA ROTARY CLUB SCHOLARSHIP — One hundred and fifty dollars (\$150) to be awarded to the student taking the highest standing in First Year English.

- THE BRITISH COLUMBIA 1958 CENTENNIAL SCHOLARSHIP** — Five hundred dollars (\$500) to be awarded annually to a student who has completed at least one year at 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.
- THE WEBER MEMORIAL BURSARY** — One hundred dollars (\$100) 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, and the award is to be made by the Committee on Prizes and Scholarships.
- THE ROTARY CLUB OF DOUGLAS (VICTORIA) 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 University of Victoria or at some other recognized university.
- THE NORA LUGRIN SHAW MEMORIAL SCHOLARSHIP** of sixty dollars (\$60) 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 by the Committee on Prizes and Scholarships on the recommendation of the Department of History.
- THE XI NU CHAPTER, BETA SIGMA PHI SORORITY ANNUAL BURSARY** of 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 who will be selected by the Committee on Prizes and Scholarships.
- FALK AND DIXON VENDING SERVICE SCHOLARSHIP** of fifty dollars (\$50) to be awarded annually to the student who writes the best term essay in English 200.
- FACULTY WOMEN'S CLUB PRIZE** of one hundred dollars (\$100) to be awarded to a deserving woman student continuing studies either at winter or summer session.
- THE EDWARD J. SAVANNAH MEMORIAL SCHOLARSHIP** of one hundred and fifty dollars (\$150), subscribed by his friends and former students, to be awarded annually to a student proceeding to Third Year Science at Victoria or elsewhere.
- THE EDGAR FERRAR CORBET SCHOLARSHIP** of 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.
- THE LADY LAURIER CLUB SCHOLARSHIP** of 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 selection will be made by the Committee on Prizes and Scholarships.
- 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.
- BIRKS GOLD WATCH** — Offered by Henry Birks & Sons (B.C.) Ltd., of Victoria, and awarded annually to a first-class student who has, in the opinion of the Committee on Prizes and Scholarships, made a valuable contribution to student life.
- ROSE'S LIMITED JEWELLERS WATCH** — To be awarded annually to the leading student in the College of Education at University of Victoria.

Scholarships for which application must be made at University of Victoria:

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 a son or daughter of a veteran of World War II or World War I, or the wife or widow of a veteran of World War II, and must continue his or her studies.

VICTORIA MUNICIPAL CHAPTER IMPERIAL ORDER OF THE DAUGHTERS OF THE EMPIRE SCHOLARSHIP— Seventy-five dollars (\$75) 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.

KER SCHOLARSHIP— One hundred and fifty dollars (\$150) awarded to a student in the first year who is proceeding to the second year either at 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 Prizes and Scholarships may recommend for the award a student who has satisfactorily completed first or second year at University of Victoria and is enrolled for service in one of the University training units. Application, together with a certificate from the Cadet unit concerned, must be made not later than April 30. Selection of the winner is to be made by Faculty in consultation with the donor, Mr. R. H. B. Ker.

HUDSON'S BAY COMPANY SERVICE AWARD— A two-year Service Award offered by the Hudson's Bay Company (Victoria) is open in competition to students completing Second Year Arts and proceeding to a higher year. Preference will be given to students interested 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 Hudson's Bay Company on graduation. Under the terms of the award whereby tuition fees will be paid and employment with the Hudson's Bay Company guaranteed during Christmas and Summer vacations and at other times such as Saturdays, one of the following plans will be followed: (a) For a Second Year Arts student tuition will be paid for Third and Fourth years toward successful completion of the B.A. degree at University of Victoria; (b) For a student completing First Year Commerce, tuition fees will be paid for Second and Third Year Commerce at U.B.C., with a possible continuation, or renewal of award for final year Commerce studies toward successful completion of Bachelor of Commerce degree. Subject to satisfactory performance, a winner will, on graduation, be given an opportunity for an executive career with the Company. Interested students should apply at the office of the Supervisor of Counselling not later than February 15.

THE LADIES PHARMACEUTICAL AUXILIARY (VICTORIA) BURSARY— A bursary of fifty dollars (\$50), gift of the Ladies Pharmaceutical Auxiliary, is available annually for the Vancouver Island pre-pharmacy student proceeding to the Faculty of Pharmacy at the University of British Columbia. The choice of the student will be left to the Committee on Prizes and Scholarships of the University of Victoria.

VICTORIA UNIT No. 12, ARMY, NAVY AND AIR FORCE VETERANS IN CANADA, GENERAL PROFICIENCY SCHOLARSHIPS— Two scholarships of one hundred dollars (\$100) each, to be awarded annually to students registered in First or Second Year. Selections will be made by the Scholarship Committee on the basis of applications submitted after registration has been completed at the beginning of each academic year. Preference will be given to sons and daughters of veterans and particularly to those of the Army, Navy and Air Force Veterans Association, also to those who are not in receipt of any other scholarships.

VICTORIA WEST PARENT-TEACHER ASSOCIATION BURSARY— Fifty dollars (\$50) to be awarded for the Session 1964-65 to a student entering his Second Year who has taken the major portion of his elementary education at Victoria West Elementary School. Application to be made to the Scholarship Committee by September 25, 1964.

CANADIAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION AND RECREATION, INC. (GREATER VICTORIA BRANCH) — 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. Scholarship Committee on the basis of applications submitted to the Scholarship Committee of the University before September 25 in each academic year.

THE ARTHUR S. DENNY SCHOLARSHIP of one hundred dollars (\$100) awarded annually by the Standard Furniture Company to a deserving student in any year with a good academic record who is continuing studies at the University of Victoria. Apply before April 30 to Committee on Prizes and Scholarships.

THE FRED SPENCER SCHOLARSHIP — One hundred dollars (\$100) presented annually by Spencer's Stores Limited to an outstanding First Year student who is planning a business career and who is either continuing his studies at a recognized university or is articled to a chartered accountant. The candidate is to be selected by the Committee on Prizes and Scholarships.

THE VANCOUVER ISLAND BRANCH, ENGINEERING INSTITUTE OF CANADA, SCHOLARSHIP — One hundred dollars (\$100) awarded annually to an outstanding student proceeding into Engineering at an approved university. The award is to be made by the Committee on Prizes and Scholarships.

THE CHARLES E. (CHUCK) COPELAND MEMORIAL BURSARY of one hundred dollars (\$100) to be awarded annually by Mrs. C. E. Copeland, Senior, in memory of her son, Charles E. (Chuck) Copeland, to a promising and deserving student who is entering Second, Third or Fourth Year in the Faculty of Education.

THE YARROWS LIMITED BURSARY — One hundred and fifty dollars (\$150) awarded annually to a very worthy student continuing university studies, with preference given to a student planning to take engineering as a profession.

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 University of Victoria.

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 Student and Bursary Application Form not later than April 30.

In consultation with The Foundation, the University will make the award of the Bursaries.

THE IBM - THOMAS J. WATSON MEMORIAL BURSARY PROGRAMME — IBM makes available \$1,000 annually to 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 Prizes and Scholarships, University of Victoria.

Scholarships available only for students in the Faculty of Education:

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 OPTI-MRS. CLUB BURSARY of fifty dollars (\$50) awarded annually to a deserving student desirous of education in Teacher Training in the Faculty of Education.

OAK BAY KIWANIS SCHOLARSHIP — One hundred dollars (\$100) offered annually to a student who has completed with distinction the first year of Teacher Education, and who intends to proceed with second year in the Faculty of Education.

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.

THE YORKSHIRE AND CANADIAN TRUST LIMITED SCHOLARSHIP — One hundred and seventy-five dollars (\$175) awarded annually to an outstanding student who is registered in the Faculty of Education. The winner must be continuing university studies leading to a B.Ed. degree. Selection will be made by the Committee on Prizes and Scholarships.

DR. MAXWELL A. CAMERON MEMORIAL MEDALS AND PRIZES — The British Columbia Teachers' Federation annually offers a silver medal and a prize of \$50.00 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.

THE BRITISH COLUMBIA TEACHERS' FEDERATION SCHOLARSHIPS IN TEACHER TRAINING — The following scholarships, the gift of the British Columbia Teachers' Federation, are offered annually to students proceeding to a degree or certificate in the field of elementary or secondary school teaching.

(1) Two scholarships of \$250 each, available to students continuing in the Faculty of Education, either in Vancouver or Victoria, from Grade XIII or First Year University.

(2) Two scholarships of \$250 each, available to students continuing in the Third Year in the Faculty of Education, either in Vancouver or Victoria.

All awards will be made on the basis of academic standing, personal qualities, and aptitude for an interest in teaching. To be eligible for the scholarships in (2) above, students must have achieved First Class standing in practice teaching. Applications, on forms available from the *Dean of Inter-Faculty Affairs*, University of B.C., Vancouver 8, B.C., must be submitted to the University of B.C. not later than May 15.

THE WILLIAM A. AND FRANCES E. HARPER SCHOLARSHIP — Seventy-five dollars (\$75) to be awarded annually to a deserving and promising student in the Faculty of Education, Victoria.

ASSOCIATION OF CHILDHOOD EDUCATION (VICTORIA BRANCH) — MARIAN D. JAMES MEMORIAL AWARD — Fifty dollars (\$50) to be presented annually by the Victoria Branch, Association of Childhood Education International, 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 her studies in this field.

GOVERNMENT OF BRITISH COLUMBIA SCHOLARSHIPS

These awards are available to students of the Province of British Columbia who are beginning or continuing a full programme of undergraduate studies at the University of British Columbia or University of Victoria, or in Grade XIII in a public

high school of the Province. Students taking the one-year teacher training course for graduates, the one-year course in Librarianship, and the First Year of Social Work are also eligible. Awards are not available for graduate study or for students registered as unclassified. Candidates for awards applicable to the session 1964-65 will be considered on the basis of standing received in the final examinations (excluding supplementals) in a full programme for the session 1963-64 in a full year's work. Candidates in the University of British Columbia or University of Victoria must take the final written examinations conducted by the University concerned in April; those in Grade XII or XIII must write the examinations conducted in June by the Department of Education, B.C. Candidates will be considered only if they fulfill requirements of being domiciled in British Columbia, to the satisfaction of the Government Awards Committee. Eligible applicants who obtain First Class standing (an overall average of at least 80%) will receive a grant of one-half the tuition fee. Awards, amounting to one-third the tuition fee, will also be made to the top Second Class students; up to the number of two thousand. All candidates must submit applications on special forms. Fuller and more precise details concerning these awards are available in a special circular issued by the Department of Education, B.C. Students at University of Victoria must apply through the University, applications to arrive not later than *July 1*. High School students must apply through their schools before June 1.

The following scholarships are open to students who have completed University Entrance and are proceeding to University of Victoria.

CECILIA GREEN MEMORIAL SCHOLARSHIP — One hundred dollars (\$100) awarded to the first ranking student from Victoria High School in the University Entrance Examinations who has not already merited another award. The recipient must attend University of Victoria or University of British Columbia.

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 University Entrance Examination, held in June, and registering for a full first year course in 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 examination 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.

UNIVERSITY SCHOLARSHIPS FOR UNIVERSITY ENTRANCE, School District No. 61, and School Districts Nos. 62-74 — Two general proficiency scholarships of two hundred and twenty-five dollars (\$225) will be awarded on the results of the High School Graduation (University Programme) Examinations. The winners must attend either the University of British Columbia or University of Victoria (District 61-66 only).

NORMAN MacKENZIE ALUMNI SCHOLARSHIP FUND — Alumni contributions to the Alumni Annual Giving Campaign have made possible the establishment for forty-two Regional Scholarships, as a tribute to the outstanding contribution of Dr. Norman A. M. MacKenzie in the field of higher education in this Province, in the amount of \$350 each. These scholarships are available to students proceeding from Grade XII (High School Graduation, University Programme) or Grade XIII to the University of British Columbia, or to the University of Victoria (1964 only). One scholarship will normally be awarded in each of the Provincial Electoral Districts. Winners will be selected by special Alumni Screening Committees in each electoral district representing the University of B.C. and the Alumni Association. Application forms may be obtained from Dean Walter H. Gage, University of B.C., Vancouver 8, B.C., and completed application forms should be received by April 15, and cannot be accepted after May 1. All applicants must write a full set of High School Graduation (University Programme) or Grade XIII examinations conducted by the Department of Education, British Columbia, in June, 1964.

BRITISH COLUMBIA FOREST PRODUCTS LIMITED ENTRANCE SCHOLARSHIPS — Eight 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 or Grade XIII to a full course of studies at the University of British Columbia or University of Victoria. Candidates for these scholarships must write a full set of scholarship examinations conducted in June by the Department of Education, B.C. The scholarships will be awarded to the eight candidates obtaining highest standing. No award will be made, however, to an applicant with an overall average of less than 70%. Applicants for these scholarships must complete the "General Application for Scholarship" form, which may be obtained from the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C. This application must be received by the University of B.C. 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.

THE FEDERATION OF TELEPHONE WORKERS OF BRITISH COLUMBIA, PLANT DIVISION, SCHOLARSHIP — The Federation of Telephone Workers of British Columbia, Plant Division, offers a scholarship of five hundred dollars (\$500) to sons and daughters of members (with at least twelve months continuous service) or of deceased members (with the same service). It is open in competition to students proceeding in the fall from Grade XII or XIII in high school to a full programme of studies at the University of British Columbia or 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 XIII will be considered on the basis of standing obtained in the Departmental Examinations written in June; those 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 B.C., 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 B.C. not later than May 15 by completing the "General Application for Scholarship" form. This form may be obtained from the Dean of Inter-Faculty and Student Affairs, University of B.C., Vancouver 8, B.C. Applications should contain details of family service with the Federation and other pertinent information.

THE COLUMBIA CELLULOSE COMPANY, LIMITED, ROBERT S. STACEY MEMORIAL SCHOLARSHIP — Established as a memorial to the late Robert S. Stacey, Co-ordinator of Industrial Relations for Columbia Cellulose Company, Limited, this scholarship is open to sons, daughters and legal dependents of full-time employees, of retired employees and of deceased employees who died while in the service of the Company. These are eligible if attending Grade XII with the intent to proceed to a degree or teaching certificate in any field at the University of British Columbia or University of Victoria. Programmes at other Canadian Universities will be considered on their merits. The award to the value of \$250 annually is renewable to a maximum of five years (\$1,250). Grade XIII attendance in British Columbia will be accepted in lieu of attendance at first year University. All candidates for this award must notify the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C. not later than May 15 of their intention to compete by submitting the "General Application for Scholarship" form. These forms may be obtained from the University of B.C. or the Industrial Relations Department of Columbia Cellulose Company, Limited. All candidates must write the full set of scholarship examinations for High School Graduation (University Programme), conducted in June by the B.C. Department of Education. The scholarship will normally be awarded to the candidate obtaining the highest standing in the June Departmental Examinations. However, it may be awarded to another candidate if the one with the higher standing wins other awards (Government Scholarships excluded), or it may be withheld if candidates do not obtain sufficiently high standing. To be eligible for annual renewal, students must obtain a pass in all subjects without supplementals.

THE COLUMBIA CELLULOSE COMPANY, LIMITED, ENTRANCE SCHOLARSHIPS—Seven scholarships, each of the value of \$250 per year and renewable annually for a maximum of five years (\$1,250), are offered to students completing Grade XII in the following British Columbia communities: two are offered to students attending in Prince Rupert and Castlegar; one each to those attending in Terrace, Nakusp-Needles, and Revelstoke. Grade XII students in these communities intending to proceed to a degree or teaching certificate in any field at the University of B.C. or University of Victoria may apply. Programmes at other Canadian universities will be considered on their merits. Grade XIII attendance in British Columbia will be accepted in lieu of attendance at first year University. All candidates for these awards must notify the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C. not later than May 15 of their intention to compete by submitting the "General Application for Scholarship" form. These forms may be obtained from the University of B.C. or the Industrial Relations Department of Columbia Cellulose Company, Limited. All candidates must write the full set of scholarship examinations for High School Graduation (University Programme), conducted in June by the B.C. Department of Education. The scholarships will normally be awarded to the candidates obtaining the highest standing in the June Departmental Examinations. However, they may be awarded to other candidates if those with the higher standing win other awards (Government Scholarships excluded), or they may be withheld if candidates do not obtain sufficiently high standing. To be eligible for annual renewal, students must obtain a pass in all subjects without supplementals.

THE VANCOUVER SUN SCHOLARSHIPS FOR 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 the University of British Columbia or University of Victoria, 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 years. The scholarships will be awarded to the two applicants who rank highest on the basis of the marks obtained in the written examinations for High School Graduation (University Programme), conducted in June by the Department of Education, B.C. Applicants must write a full set of examinations in the scholarship subjects prescribed by regulations of the Department and the University. 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 B.C. A student who wishes to be considered for one of these scholarships must apply by letter to Dean Walter Gage, University of British Columbia, Vancouver 8, B.C., not later than May 15. The letter of 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 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, or University of Victoria, 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 years, and must take the written examinations for High School Graduation (University Programme), conducted in June by the Department of Education, B.C. All applicants must write a full set of examinations in the scholarship subjects prescribed by the regulations of the Department and the University of B.C. An applicant will be considered only if he obtains an overall average of at least 75%. The scholarship will be awarded to the eligible applicant who, in the opinion of the University of B.C., 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 Dean Walter H. Gage, University of B.C., Vancouver 8, B.C. The completed application, accompanied by

the service certificate of the Vancouver *Sun* must be received by the University of B.C. 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 YARROWS LIMITED ENTRANCE SCHOLARSHIP—A scholarship of \$1000 for sons, daughters, or legal dependents of employees of Yarrows Limited, Victoria is offered annually under terms and conditions identical to those of the Burrard Dry Dock Company Limited Scholarship. If the winner so desires, however, attendance at the University of Victoria will be accepted in lieu of attendance at the University of B.C. Candidates must apply on special forms which may be obtained from, and must be returned to, Yarrows Limited before May 30. Selection of the winner will be made by the University in consultation with the University of Victoria.

HON. W. C. WOODWARD UNIVERSITY MEMORIAL SCHOLARSHIPS—Two scholarships, each of the value of \$500 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 dependents of full-time employees, of retired employees, and of deceased employees (who died while in the service of the Company) of Woodward Stores. These scholarships are open to applicants beginning University attendance for the first time and entering the University of British Columbia or University of Victoria from Grade XII or XIII of secondary school (or from any other source, provided they are qualified for admission). The writing of the Examinations conducted in June by the Department of Education, B.C., is required. Applicants must be proceeding, in any faculty, to a full course leading to a degree. Candidates, who must apply not later than May 30 on special forms obtainable from the Personnel Department of any Woodward store, will be considered on the basis of (a) academic standing; (b) activity and interest in youth programmes and organizations (within the school and community); and (c) personal qualities, character, and demonstration, during attendance at school, of citizenship, leadership, and service. Renewals are subject to maintenance of satisfactory standing, progress, and conduct.

STANDARD OIL COMPANY OF BRITISH COLUMBIA LIMITED ENTRANCE SCHOLARSHIP—Standard Oil Company of British Columbia Limited offers a scholarship worth \$2000 to students who are resident of British Columbia and are proceeding in the fall to studies in the First Year at the University of British Columbia or University of Victoria or other approved Canadian university of recognized standing, in a full course leading to a degree. Candidates must write a full set of scholarship examinations for High School Graduation (University 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. Should this applicant win another award, however, the scholarship may be given, at the discretion of the University of B.C., to the eligible candidate with next highest standing. No award will be made to a candidate with an overall average less than 75%. General regulations of the University of B.C. for scholarships 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 B.C. The student must apply by letter, to be received by Dean Walter H. Gage, University of B.C., Vancouver 8, B.C., not later than June 1. In the letter he should give his full name, home address, name and address of the school he is attending, and the name of the university he will attend in the fall.

STANDARD OIL COMPANY OF BRITISH COLUMBIA LIMITED SPECIAL SCHOLARSHIP—Standard Oil Company of British Columbia Limited offers a scholarship worth \$2000 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 the University of British Columbia or University of Victoria or other approved Canadian university

of recognized standing, in a full course leading to a degree. Candidates must write a full set of scholarship examinations for High School Graduation (University 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. Should this applicant win another award, however, the scholarship may be given, at the discretion of the University of B.C., to the eligible candidate with next highest standing. No award will be made to a candidate with an overall average less than 70%. General regulations of the University of B.C. 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 B.C. The student must apply by letter to be received by Dean Walter H. Gage, University of B.C., Vancouver 8, B.C., not later than June 1. In the letter the student should give his full name and home address, name and address of his school, and the name of the institution he will attend in the fall. He must also give essential details of family employment with the Company.

THE ROYAL ARCH SCHOLARSHIP — Three scholarships, in the amount of \$300 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 an eligible student proceeding directly in the fall from Grade XII to a full programme of studies in the First Year at the University of British Columbia or University of Victoria. Candidates for these scholarships must (a) write a full set of scholarship examinations conducted in June by the Department of Education, B.C.; (b) complete the "General Application for Scholarship" form, which may be obtained from the Dean of Inter-Faculty Affairs, University of B.C. This application form, which is to be received by the University not later than May 15, must clearly indicate (i) the applicant's relationship to a member or deceased member of the Royal Arch Masonic Order, the name of the member, and the name of the Chapter with which he is or was connected; and (ii) the applicant's financial circumstances and those of his or her immediate family. Only candidates who obtain an overall average of 70% in the Department examinations will be considered. If, in the opinion of the University, no applicant is suitably qualified, the award will be withheld.

THE INTERNATIONAL LONGSHOREMEN'S AND WAREHOUSEMEN'S UNION ENTRANCE SCHOLARSHIPS — Three 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 or XIII 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 the University of B.C. or University of Victoria. Students who wish to compete for these awards must apply on the "General Application for Scholarship" form, which may be obtained from the office of the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C. The completed application must be received at the University of B.C. by May 15. 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.

Scholarships for which Application must be made through U.B.C.

THE TRI-SERVICES UNIVERSITY TRAINING SCHOLARSHIPS AND PRIZES — Three scholarships of \$150 each, established by the trustees of the Combined University Services Trust Fund, are offered to students undertaking reserve officer training in University of Victoria and the University of B.C. Naval Training Division. The Canadian Officers' Training Corps and the R.C.A.F. Reserve University Squadron. To be eligible for the awards candidates must have completed at least the first phase of their practical and theoretical training with their respective services and be proceeding with their university studies. Winners will be selected by

the Scholarship Committee of the University of B.C. in consultation with Commanding Officers of the units, on the basis of academic proficiency and on qualities of leadership as exhibited in the service training programmes. The financial circumstances of candidates may, however, also be considered. If no candidate is considered to be sufficiently well qualified the awards may be withheld. Similarly, based on the criteria mentioned above a prize to the value of \$50 may be awarded to an officer cadet in each of the service units who is a member of the regular Navy, Army and Air Force and attending University of Victoria and University of B.C. under the auspices of the Department of National Defence.

THE BRITISH COLUMBIA TEACHERS' FEDERATION SCHOLARSHIP IN TEACHER TRAINING—The following scholarships, the gift of the British Columbia Teachers' Federation, are offered annually to students proceeding to a degree or certificate in the field of elementary or secondary school teaching.

- (1) Two scholarships of \$250 each, available to students continuing in the Faculty of Education, either in Vancouver or Victoria, from Grade XIII or First Year University.
- (2) Two scholarships of \$250 each, available to students continuing in the Third Year in the Faculty of Education, Vancouver or Victoria.

All awards will be made on the basis of academic standing, personal qualities, and aptitude for and interest in teaching. To be eligible for the scholarships in (2) above, students must have achieved First Class standing in practice teaching. Applications, on forms available from the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C., must be submitted to the University of B.C., not later than May 15.

THE BRITISH COLUMBIA TEACHERS' FEDERATION UNDERGRADUATE SCHOLARSHIPS FOR TEACHERS—The British Columbia Teachers' Federation offers annually six scholarships tenable at the University of British Columbia or at University of Victoria. An applicant must be actively engaged in teaching in the Province, must hold a B.C. Teaching Certificate, must have high academic standing (an overall average of at least Second Class, in terms of University of British Columbia grades, with First Class in the particular area or areas in which he proposes to major), and must give assurance of returning to educational service in British Columbia on completion of his University studies. The awards are of two types: (a) two scholarships of \$1500 each for teachers taking leave of absence to proceed in a full programme of studies in the regular winter session toward a B.Ed. degree. One scholarship is for the elementary field, the other for the secondary field. (b) Four scholarships of \$250 each for teachers proceeding in a full programme of studies in the summer session toward the B.Ed. degree. Two of the scholarships are for the elementary field and two for the secondary field. The completed application form and all necessary documents must be received by Dean Walter H. Gage, University of British Columbia, Vancouver 8, B.C., not later than March 15.

THE DR. H. B. KING MEMORIAL SCHOLARSHIP IN EDUCATION—This scholarship of \$150 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 the Faculty of Education (Vancouver or Victoria). 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 Dean of Inter-Faculty Affairs must be submitted to the University not later than May 15.

BURSARIES

GOVERNMENT BURSARIES — The Government of the Province of British Columbia (with a contribution also from the Federal Government) provides funds annually for the award of bursary assistance to selected capable persons who can show financial need and who fulfil certain requirements of being domiciled in British Columbia. These awards will be made primarily to assist students entering their first year of undergraduate studies at the University of British Columbia or University of Victoria, from Grade XII or Grade XIII. If funds permit, however, awards may be made for undergraduate studies in higher years (including the one-year teacher-training course, the one-year Librarianship course, and the First Year of Social Work), or for acceptable university studies at a recognized institution outside the Province in fields for which training is not available at the University of British Columbia or University of Victoria (e.g. veterinary science, etc.). Awards are normally in the range of \$100-\$200. Applications must be submitted to the Department of Education, Victoria, B.C., by *August 5*. Application forms may be obtained from the Department of Education, Victoria, B.C., from the Dean of Inter-Faculty Affairs of the University, from the University of Victoria, or, where the student is attending school, from the principals of senior high schools.

THE H. R. MacMILLAN FAMILY FUNDS offer 30 Bursaries of \$1000 each for the academic year 1964-65 to assist deserving students in financing their education at any level of technical, vocational or academic institutions in British Columbia (or elsewhere in special circumstances).

Persons desiring to apply for a Bursary should mail an application in the form prescribed to Vancouver Foundation, Room 205, 1105 West Pender Street, Vancouver 1, B.C. not later than March 31, 1964. Forms of application may be obtained from any one of the following:

Vancouver Foundation, Room 305, 1105 West Pender Street, Vancouver 1, B.C.
The Personnel Office of any MacMillan, Bloedel & Powell River Limited operating Division in British Columbia.

MacMillan, Bloedel & Powell River Limited Public Relations Department, 1199 West Pender Street, Vancouver 1, B.C.

The Canada Trust Company, 536 Howe Street, Vancouver, B.C.

An Advisory Committee set up under the terms of the H. R. MacMILLAN FAMILY FUNDS will study the applications, make such further investigations as it may deem necessary, and decide on the Bursary Awards. In all cases, the decision of the Committee will be final. Candidates will be notified, and a list of Awards published in the month of August, 1964.

In making decisions, the Committee will consider:

- (a) The academic record of the applicant.
- (b) The extra-curricular activities of the applicant, showing qualities of leadership and citizenship.
- (c) The proposed courses and educational institution which the applicant plans to attend.
- (d) The educational aims and objectives of the applicant.
- (e) The home community of the applicant: (Applicants from communities in which MacMillan, Bloedel & Powell River Ltd. operates will receive special consideration.)
- (f) The financial resources of the applicant, including any other grants or awards receivable.

Successful candidates in any year may apply for renewal of the Award in a succeeding year, which will depend upon the performance of the applicant during the year in which the Bursary is received. The Committee will be the sole judge as to whether the Bursary should be renewed. Awards will be made on a competitive basis, having regard to the above factors, in the event that acceptable applications exceed available resources of the Funds.

BRITISH COLUMBIA FOREST PRODUCTS LIMITED BURSARIES — Bursaries to a total of \$5500, each with a maximum value of \$300, 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 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 or 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 60% 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 Dean of Inter-Faculty Affairs, University of B.C. This application must be received by the University of B.C. not later than August 1 and must contain the necessary details of family service with the Company.

THE CANADIAN OFFICERS' TRAINING CORPS (C.O.T.C.) BURSARIES — Bursaries to the total of \$300, each ranging in value from \$50 to \$100, are available to members of the Corps continuing their training in the fall with the C.O.T.C. on the campus. These awards are provided to give a measure of encouragement to students deserving of assistance who have good standing, not only in their academic studies but also in the Corps programme. In selecting winners consideration will therefore be given to financial need, academic standing, and record of achievement in the C.O.T.C. Selection will be made by the University of B.C., in consultation with the Commanding Officer. Applications, on forms available from the Dean of Inter-Faculty Affairs, must be submitted to the University of B.C. not later than August 1.

THE STRY CREDIT UNION BURSARY — A bursary of \$300 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 or Grade XIII to attendance at the University of B.C. or University of Victoria in a full course leading to a degree. The winner will receive \$200 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. Applications, on forms obtainable from the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C., must be received at the University of B.C. not later than August 1.

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 B.C. or 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 — Two scholarships of \$150 each, provided by the Naval Officers' Association of British Columbia are offered to students beginning or continuing studies at the University of B.C. or 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 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.

WHITE SPOT RESTAURANTS LIMITED BURSARIES — Two bursaries, having a total value of \$1,000 each, are provided by White Spot Restaurants Limited for their employees, and sons and daughters of their employees who are below the rank of Manager and 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 or XIII of secondary school to a full programme of studies at the University of B.C. or the University of Victoria. For purposes of qualification, "employees" shall include students having part-time employment with the Company while attending secondary school. 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 B.C. 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 B.C. not later than August 1. This form may be obtained after June 1 from the Dean of Inter-Faculty and Student Affairs, University of B.C., 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 65%, and need financial assistance.

AWARDS MADE BY OTHER INSTITUTIONS

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 B.C. from applicants with satisfactory academic standing who are beginning or continuing undergraduate studies at the University of British Columbia or University of Victoria in a full programme leading to a degree in any field. First preference will be given to applicants entering university from Grades XII and XIII, then to undergraduates who were assisted in a previous year, and finally, to others. In order to be considered, a candidate must obtain from the office of the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C., a Special Bursary Application form. The completed application must be received at the University of B.C. not later than August 1. If the applicant is the son, daughter, or legal ward of a member of the Lodge the application must be accompanied by a letter giving the name and address and details of the lodge with which the applicant's immediate family is or has been associated.

The Rhodes Scholarships

THE RHODES SCHOLARSHIPS — The Rhodes Trustees offer annually for award in the Province of British Columbia one Rhodes Scholarship of the value of £750 a year. At most Colleges, and for most men, this sum is scarcely sufficient to meet a Rhodes Scholar's necessary expenses for term-time and vacations, and Scholars who can afford to supplement it by, say £50 a year from their own resources are strongly 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 an unmarried Canadian citizen or British subject domiciled and resident for five years in Canada. He must be in his second year at least of work in a Canadian university and may apply either in the province of his residence or of his university, if these differ. A candidate for the scholarship for 1965 must have passed his 19th birthday but not have reached his 25th birthday by October 1, 1964.

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, kindliness, 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 in 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 November 1, 1964, and, if elected, to go to Oxford in October, 1965. Further information and application forms may be had from A. H. Ainsworth, 1500 Marine Building, 355 Burrard Street, Vancouver 1, B.C.

For Graduate Study

BRITISH COLUMBIA LIBRARY ASSOCIATION BURSARY—One or more bursaries, given by the British Columbia Library Association, are available annually for students intending to adopt librarianship as a profession. To be considered an applicant must be eligible for acceptance in the University of British Columbia School of Librarianship, and must plan to attend that School. The recipient will be selected on the basis of scholarship, personality, ability to work with others, aptitude for library work, physical fitness and financial need. It is to the student's advantage to have had some library experience. Application forms and further information may be obtained from the Director of the School of Librarianship, U.B.C.

BRITISH COUNCIL SCHOLARSHIPS—The British Council offers scholarships to overseas students, normally tenable at universities and other educational institutions in the United Kingdom. The awards are mainly for men and women who have already completed university degree courses or who have equivalent professional qualifications. Preference is given to candidates between 25 and 35 years of age. The scholarships are normally for one academic year of 10 months or for two academic years (22 months), according to the duration of the approved course of study. A full scholarship is intended to cover all expenses of maintenance and study, and includes fares, fees, personal maintenance, a grant for books and apparatus and approved travelling expenses in the United Kingdom. Inquiry should be directed before the middle of October to the Executive Secretary, National Conference of Canadian Universities, 77 Albert Street, Ottawa 4, Ontario.

THE CANADA COUNCIL AWARDS—The Canada Council offers scholarships, fellowships and grants in the field of the arts, humanities, and social sciences. These include pre-master's degree scholarships; pre-doctor's degree fellowships; senior research fellowships in the humanities and social sciences; senior arts fellowships for musicians, artists, writers and other workers in, and teachers of, the arts; arts scholarships for artists, musicians, writers and other workers in the arts; scholarships for secondary school teachers and librarians; scholarships for arts teachers and

professional staff members of art galleries and museums; grants in aid of research and other productive scholarship; fellowships of one year duration for non-residents for study or teaching in Canada in the arts, humanities, and social sciences; fellowships for journalists, broadcasters and film-makers; and special awards. Requests for application forms should be sent to The Scholarship Section, The Canada Council, 140 Wellington Street, Ottawa, Canada.

THE CANADIAN FEDERATION OF UNIVERSITY WOMEN FELLOWSHIPS

TRAVELLING FELLOWSHIP \$2,500 — This Fellowship is open to any woman holding a degree from a Canadian university, whose domicile is in Canada (although she may be studying elsewhere at the date of application) and who wishes to do post-graduate study or research outside Canada. Preference will be given to candidates who have completed one or more years of graduate study and who have a definite course of study or research in view.

MARGARET McWILLIAMS FELLOWSHIP \$2,000 — This Fellowship is open to any woman holding a degree from a Canadian university, whose domicile is in Canada (although she may be studying elsewhere at the date of application) and who wishes to do post-graduate study or research outside Canada. Preference will be given to candidates who have completed one or more years of graduate study and who have a definite course of study or research in view.

JUNIOR FELLOWSHIP \$1,500 — This Fellowship is open to any woman holding a degree from a Canadian university who is not more than 25 years of age at the time of award and whose domicile is in Canada.

PROFESSIONAL FELLOWSHIP \$1,500 — This Fellowship is open to any woman holding a degree from a Canadian university, whose domicile is in Canada, and who wishes to spend a year at an accredited Library School, College of Education, or other professional school.

INTERNATIONAL FELLOWSHIPS FOR WOMEN IN SENIOR GRADUATE WORK 1965-1966

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN EDUCATIONAL FOUNDATION announces two Fellowships in the natural sciences:

SARAH BERLINER FELLOWSHIP in Physics, Chemistry or Biology.

IDA H. HYDE FELLOWSHIP in Euthenics or Eugenics.

These Fellowships, open to women in any country represented in the International Federation of University Women, have a stipend of \$5,000 each, require a Doctorate in the field of research, and are unrestricted as to age or place of research.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN EDUCATIONAL FOUNDATION offers to women of other countries which are represented in the International Federation of University Women, *thirty* international Fellowships of \$2,500 each, for study in the United States, and a few international Fellowships for study in any country other than the fellow's own.

THE BRITISH FEDERATION OF UNIVERSITY WOMEN LTD., announces an international residential scholarship at Crosby Hall, London, value 600 pounds sterling. The scholarship is offered for post-graduate research or other advanced study. It is open to members of any national association belonging to the International Federation of University Women.

THE INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN COMMITTEE FOR THE AWARD OF INTERNATIONAL FELLOWSHIPS announces:

Five AAUW awards of \$2,500 each;

The CFUW A. VIBERT DOUGLAS FELLOWSHIP of \$2,000.

THE IFUW IDA SMEDLEY MacLEAN FELLOWSHIP of 850 pounds sterling.

The FUWI (Bombay Branch) grant of (approx.) 370 pounds sterling.

IFUW WINIFRED CULLIS FUND short term grants not exceeding 300 pounds sterling each.

The Australian Federation of University Women grant of (approx.) 140 pounds sterling (for two or three months).

The Finnish Federation grant of (approx.) 333 pounds sterling (for six months study of research).

The South African Association of University Women grant of 300 pounds sterling (for not less than six months).

These awards are all for research only (except the Finnish grant) and candidates must be full members of their national Federation of University Women.

Canadian candidates for any of the above awards must submit applications to the Canadian Federation of University Women Fellowships Committee. CFUW applications must be completed by February 1. AAUW and BFUW applications must be completed by December 1, IFUW applications by November 1. Application forms may be obtained from:

Miss Jean Royce, 140 Stuart Street, Kingston, Ontario.

COMMONWEALTH SCHOLARSHIPS — Under a plan drawn up at a conference held in Oxford in 1959, each participating country of the Commonwealth offers a number of scholarships to students of other Commonwealth countries. These scholarships are mainly for graduate study and are tenable in the country making the offer. Awards are normally for two years and cover travelling, tuition fees, other university fees, and a living allowance. The closing date for receiving applications for scholarships awarded by countries in the Northern Hemisphere is October 31. For the dates of countries below the Equator and other details of Commonwealth Scholarships write to The Canadian Universities Foundation, 75 Albert Street, Ottawa.

CONSOLIDATED MINING AND SMELTING COMPANY GRADUATE RESEARCH FELLOWSHIP — The consolidated Mining and Smelting Company offers annually ten Graduate Research Fellowships. Each fellowship has the value of \$3000 of which \$2200 will be granted to the holder and \$800 to the University for the department in which research investigations are undertaken. At least five of the awards will be made to graduates undertaking study and research leading to an advanced degree in Canadian universities west of Ontario. They are open to any Canadian citizen who is a graduate in pure science, applied science, or agriculture of a recognized university who is planning research at a Canadian university leading toward a higher degree. The subject of the research investigation shall be in the same field of pure or applied science bearing some relationship to the broad technical interests of the Company in the fields of mining, geology, metallurgy, chemistry, chemical engineering, physics, agriculture, and electrical, mechanical and civil engineering. Application forms, required in quadruplicate, may be obtained from the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C. They must be sent to the Secretary, Canadian Universities Foundation, 75 Albert Street, Ottawa 4, Ontario, and must be received not later than February 1. An application must be supported by letter of approval from the appropriate university authority stating that the applicant's plan of study and research has been accepted and may be undertaken at the university.

FRENCH GOVERNMENT SCHOLARSHIPS — Scholarships of the present value of approximately \$800 are donated by the French Government for graduate study in France. They are tenable for an eight-month period. Travelling expenses for the return to Canada and university fees are defrayed by the French Government. These scholarships are open to students of all faculties. Candidates must, however, produce satisfactory evidence that they are able to profit by instruction given in French. The awards are made by the French Embassy on the recommendation of the University, from whom further information may be obtained.

IMPERIAL OIL GRADUATE RESEARCH FELLOWSHIPS — Imperial Oil Limited in 1946 established for annual competition Graduate Research Fellowships, now five in number and having a potential value of \$7500 each (\$2500 a year for a maximum of three years). A fellow may not hold concurrently other awards which annually equal or exceed \$1500.

The Fellowships are open to any graduate of any approved Canadian university

and are offered for research leading to a Doctor's degree in the fields of Pure and Applied Natural and/or Exact Sciences, including Mathematics (3 fellowships), and Social Sciences and Humanities (2 fellowships). Nomination of students for the fellowships is made by the university — such nominations to be received by the Secretary, Committee on Higher Education, Imperial Oil Limited, 111 St. Clair Avenue West, Toronto 7, not later than March 1 of each year.

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE WAR MEMORIAL I SCHOLARSHIP (OVERSEAS) — This fund was established by the I.O.D.E. in order to perpetuate the memory of the men and women who gave their lives in the defence of the Empire in the First Great War. Graduate scholarships to the value of \$2000 each are offered annually, one in each province of Canada. Each candidate must have done or be doing postgraduate work. The conditions under which they are awarded may be obtained from the Education Secretary of the Provincial Chapter, I.O.D.E., 9031 Hudson Street, Vancouver 14, B.C. *Applications must be submitted by October 15 of each year.*

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE WAR MEMORIAL II SCHOLARSHIP (OVERSEAS) — This fund was established by the I.O.D.E. in order to perpetuate the memory of the men and women who gave their lives in defence of the Empire in World War II. Six postgraduate scholarships to the value of \$2000 each are to be offered annually in Canada. Each candidate must have done or be doing postgraduate work. In view of the fact that for many years the emphasis for advanced study has been placed on science rather than on the humanities, these scholarships provided under War Memorial II will be offered annually to carry on postgraduate work in History, Philosophy, English or French Literature. The conditions under which they are awarded may be obtained from the Educational Secretary of the Provincial Chapter, I.O.D.E., 9031 Hudson Street, Vancouver 14, B.C. *Applications must be submitted by October 15 of each year.*

THE JOHNSON'S WAX FUND SCHOLARSHIP AWARD — The Johnson's Wax Fund, Racine, Wisconsin, through S. C. Johnson and Son, Limited, Brantford, Ontario, offers an award to pay for one year the reasonable expenses for travel to and study in the United States of at least one worthy and needy student, at a university or college of his or her choice) in postgraduate fields such as Economics, Business Administration, Chemistry, Engineering, Law, Medicine, Teaching, etc. An applicant must be a Canadian citizen, and must be recommended for the award by his or her university. Preliminary applications must be in Brantford by December 15, accompanied by a letter of recommendation from the dean of the faculty or some other appropriate official.

THE MacKENZIE KING TRAVELLING SCHOLARSHIPS — These scholarships of not less than \$1500 each are available for graduates of any Canadian university who propose to engage, either in the United States or the United Kingdom, in postgraduate studies in the fields of international or industrial relations. Information may be obtained from Dean Walter H. Gage, University of B.C., Vancouver 8, Canada. Applications for those proposing to proceed to study in the fall of any year must be submitted by the previous March 1.

NATIONAL RESEARCH COUNCIL BURSARIES AND STUDENTSHIPS — The National Research Council awards annually a number of bursaries and studentships for graduate work. These are open to selected graduates in science and engineering who have shown distinction in their undergraduate studies. The values of the awards are as follows: bursary, \$2000 and studentship, \$2400. Students receiving these awards will be expected to spend the summer months in their research, and if they do not do so, the award will be reduced. Also available are a limited number of special scholarships for postgraduate study outside Canada and postdoctorate fellowships for those who have completed their work for the Ph.D. degree. These fellowships may be held either in Canada or abroad. Applications must be received in Ottawa before February 1. Application forms and regulations governing the awards may be obtained from heads of departments, or from the Awards Officer, National Research Council, Ottawa 2.

THE P.E.O. INTERNATIONAL PEACE SCHOLARSHIPS — Believing that education is fundamental to World peace and understanding, the members of the P.E.O. Sisterhood contribute funds for the purpose of providing scholarships for

selected women from other countries to study in the United States and Canada. The applicant must have full time graduate status working towards a degree. She must state her intention to return to her own country on completion of her educational programme. Two or more awards of varying amounts of approximately \$600 per session will be made each year. Requests for application forms should be made before December 1. Further information may be obtained from the Dean of Women, University of British Columbia, Vancouver 8, B.C.

ROTARY FOUNDATION FELLOWSHIPS — The Board of Directors of Rotary International and the Rotary Foundation Trustees have established a number of Rotary Foundation Fellowships, each to the value of \$2500 approximately, for advanced study for a period normally of one year. Candidates are expected to pursue studies outside their own country. Preference will be given to a candidate who proposes to study in a country where the language is different from that of his own homeland and who is reasonably proficient in that language. These fellowships are open to unmarried students between the ages of twenty and twenty-eight. Applicants must be graduates or in their graduating year. They are advised to make application early in the year to the Rotary Club in their home district. It is suggested that complete information be obtained from the Rotary Club of Victoria or any other Rotary Club.

THE WOODROW WILSON NATIONAL FELLOWSHIPS — The purpose of these fellowships is to encourage promising students to consider careers as college teachers in the fields of the humanities and the natural and social sciences. Outstanding college seniors and graduates who have commenced graduate studies are eligible for nomination provided they indicate a sincere interest in college teaching. The stipend is \$1500 (plus dependency allowance for wife and children). The Foundation also pays directly to the graduate school tuition and other fees for the fellow. An applicant may choose any graduate school in the United States and Canada, but this choice is subject to review by the Woodrow Wilson Fellow Foundation. Except under unusual circumstances, fellows may not remain at the university where they were undergraduates. Prospective fellows are nominated by faculty members. Students interested in these fellowships should indicate their interest to the head of the department concerned as soon as possible after registration in the Final Year. Nominations of suitable candidates must be submitted by faculty members very early in the academic session.

THE DEPARTMENT OF SOCIAL WELFARE, PROVINCE OF BRITISH COLUMBIA, BURSARY IN SOCIAL WORK — A bursary of \$1000, established by the Department of Social Welfare, Province of British Columbia, is offered annually to graduates of the University of British Columbia or University of Victoria proceeding to the First Year of Social Work at the University of British Columbia. The award will be based on scholastic standing, personal qualities and display of special interest in public affairs. Consideration will also be given to the financial circumstances of applicants. The successful applicant must be prepared to enter the employ of the Department of Social Welfare for a period of at least sixteen months following completion of the first year of study in the School of Social Work. Applicants should consult the Director of the School about their admission to Social Work and the procedure for applying for this bursary. It will be awarded by a special joint committee composed of representatives of the Department and the School.

FOR UNDERGRADUATES

COMINCO UNDERGRADUATE SCHOLARSHIPS — The Consolidated Mining and Smelting Company of Canada Limited offers annually a number of scholarships fuller details of which should be obtained from the Secretary, Scholarship Committee, The Consolidated Mining and Smelting Company of Canada Limited, Trail, B.C. Applications, on special forms available at the above address, must be post-marked not later than May 15 and forwarded to that address. These awards include: (a) Two major awards of \$1400 each payable \$350 each per year. Known as Cominco Undergraduate Scholarships, Class 1, they are open in competition at the Senior Matriculation or equivalent level (i.e. equivalent First Year University) to sons and daughters of Cominco employees. (b) Four one-year awards of \$300 each, known as Cominco Undergraduate Scholarships, Class 2, are open in competition

to sons and daughters of Cominco employees. These awards are based on Senior Matriculation standing only. (c) Two one-year awards of \$300 each, known as Cominco Undergraduate Scholarships, Class 3, open in competition to all students who are attending high schools in School Districts Nos. 1-11 inclusive, which cover the East and West Kootenay Districts of British Columbia. These awards are based on Senior Matriculation standing only.

CROWN ZELLERBACH CANADA LIMITED SCHOLARSHIPS FOR TEACHER TRAINING — Seven scholarships of \$2000 each, payable in yearly instalments of \$400 for five years, are offered annually by Crown Zellerbach Canada Limited to high school graduates beginning studies at the University of B.C. or University of Victoria, and planning to enter the secondary teaching profession. One award will be available in each of the following school districts: Courtenay-Comox; Campbell River; Ladysmith (Ladysmith High School only); Nanaino; Ocean Falls; Richmond School District No. 38; and the combined areas of New Westminster School District No. 40, Coquitlam School District No. 43, and Surrey School District No. 36. Selection of the winners of the scholarships, which are open to students whose parents reside in these districts, will be made by the School Boards concerned, on the basis of scholastic standing, leadership, citizenship, and suitability for the teaching profession. Application to compete should be made to the high school principal. Yearly renewals to winners will be dependent upon maintenance of good academic standing.

THE ELIZABETH BENTLEY EASTERN STAR SCHOLARSHIP — This scholarship, in the amount of \$400, is given annually by the Order of the Eastern Star to a student who is attending the University of British Columbia or University of Victoria, and in whose immediate family there is a member of the Order. Names of eligible students, with complete information and photostatic copies of their marks, are forwarded each year by the various chapters to the Secretary of the Grand Chapter of British Columbia, to be received in that office not later than July 31. The award is made to that student who attains the highest average of marks in regular subjects during the Second and Third Years of attendance. Further information may be obtained from Mrs. Hazel Freeze, Grand Secretary, 4767 Collingwood, Vancouver 8, B.C.

IMPERIAL OIL HIGHER EDUCATION AWARDS — Imperial Oil Limited offers annually free tuition and other compulsory fees to all children or wards of employees and annuitants who proceed to higher education courses. The courses may be taken at any Canadian university or other approved institution of higher learning. Each award is tenable for a maximum of four years. To be eligible a student must attain an average mark of 70% in the appropriate secondary school examinations in the subjects required for admittance to the approved 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 INDEPENDENT ORDER OF ODDFELLOWS BURSARIES — Six bursaries of \$250 each, provided by the Grand Lodge of B.C., 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 Oddfellows Lodge or Rebekah Lodge, I.O.O.F. Applications should be submitted to the Oddfellows 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 Oddfellows 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.

THE I.O.D.E. SECOND WAR MEMORIAL BURSARIES — These bursaries were established as a memorial to Canadian men and women who gave their lives in the Second World War. They are open to sons and daughters, residents in Canada, whose fathers or mothers, having served during World War II in the Navy, Army, Air Force, or Merchant Navy of the British Empire and Commonwealth, suffered death or permanent and serious disability because of this service. Provided there are suitable candidates, thirty bursaries will be offered across Canada. Each bursary has the value of \$400 a year for four years, renewal each year being subject to satisfactory standing. Awards will be made to selected candidates who meet the entrance requirements of the university of their choice. *To be eligible for consideration applicants must write the departmental examinations of their province.* Application forms and further information may be obtained from the Provincial Educational Secretary, I.O.D.E., 9031 Hudson Street, Vancouver 14, B.C. Applications must be submitted by April 1.

THE I.W.A. LOCAL 1-80, SCHOLARSHIP — I.W.A., Local 1-80, offers a scholarship in the amount of \$300, open in competition to I.W.A. members (Local 1-80), or the wife, son or daughter of a member. The scholarship will be awarded to the candidate obtaining the highest standing in the written examinations for Grade XII (University Programme) conducted in June by the Department of Education, B.C. All applicants must write a full set of examinations, details of which may be obtained from the principal of any high school offering Grade XII work, or from the Department of Education, Victoria, B.C. The scholarship will be open to those proceeding in the fall to university studies at the University of British Columbia, Vancouver, or University of Victoria. Those who wish to compete must notify Mr. Ed. Linder, Financial Secretary, I.W.A. Local 1-80, P.O. Box 430, Duncan, B.C., by letter not later than June 3. They must also consult the school principal before this date about the arrangements to write the examinations and apply to write the departmental scholarship examinations. The I.W.A. reserves the right to withhold the scholarship if no candidate makes sufficiently high standing, or to award it to another candidate if the winner receives another award of higher monetary value.

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 and further information may be secured from Dean F. H. Soward, a member of the General Committee of the Foundation or from the Registrar. These forms should be forwarded to the Honorary Secretary of the Foundation, c/o Toronto General Trusts Corporation, 253 Bay Street, Toronto, 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 last Friday in May.

MacMILLAN, BLOEDEL AND POWELL RIVER LIMITED SCHOLARSHIPS — Seven scholarships of \$400 each, one in each of School District 65 (Duncan-Cowichan), 67 (Ladysmith-Chemainus), 68 (Nanaimo), 69 (Qualicum), 70 (Alberni), 79 (Ucluelet-Tofino), and 48 (Howe Sound), are offered by MacMillan, Bloedel and Powell River Limited. These scholarships are open to students beginning their studies at the University of British Columbia or affiliated Theological Colleges on the Campus or at the University of Victoria. 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 and Powell River Limited. Further information may be obtained from the Principal of the School.

NORTHERN ELECTRIC EMPLOYEE BURSARIES — The Northern Electric Company Limited has provided for a number of bursaries to an annual maximum value of \$500 each to assist employees of the Company and their dependents to obtain a university education. The recipients must have completed previously one year of undergraduate studies at a recognized university. Application forms obtainable from the Company should be submitted directly to the Northern Electric Bursary Award Committee, Dept. 107, P.O. Box 6123, Montreal, P.Q. before July 31.

ROYAL CANADIAN LEGION (PACIFIC COMMAND) SCHOLARSHIPS — The Canadian Legion (British Columbia Command), offers annually a number of scholarships for students proceeding from high school to university. These scholarships are awarded on the basis of academic standing, financial need, and participation and achievement 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 The Provincial Secretary, Royal Canadian Legion, 1531 West Pender Street, Vancouver 5, B.C.

THE WOMAN'S INSTITUTE MEMORIAL SCHOLARSHIP — A scholarship of \$250 will be awarded annually by the Women'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 B.C. 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 B.C. 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.

THE B.C. INDIAN ARTS AND WELFARE SOCIETY MEMORIAL BURSARY — A bursary of \$100 will be awarded annually by the B.C. Indian Arts and Welfare Society in memory of those Indian Canadians who gave their lives in either World War. Applicants must be from the Vancouver Island Indian Educational District and be planning to enter the University of British Columbia, the University of Victoria, or some recognized Technical School or other training centre. The award will be made by the Executive Committee of the B.C. Indian Arts and Welfare Society in consultation with the Superintendent of Indian Education on Vancouver Island. Correspondence regarding the above is to be addressed during the period of the next twelve months to Miss Esther F. Tervo, Corresponding Secretary, 2950 Foul Bay Road, Victoria, B.C.

THE STUDENT AID LOAN FUND

The Student Aid Loan Fund—By an Act of the Provincial Legislature the University was authorized in 1959 to borrow money for the establishment of this Fund. Loans will be made to students with satisfactory standing who fulfil (to the satisfaction of the Loan Committee) requirements of being domiciled in British Columbia, and who require financial assistance. Loans bear interest from the date of issue, and are repayable in regular instalments commencing not later than October 1 of the year in which the approved training programme will be completed. For fuller details and application forms, apply to the Dean of Inter-Faculty Affairs, University of British Columbia, Vancouver 8, B.C. Students at University of Victoria should consult the Registrar.

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 \$1250. 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 \$1250 for two or more years of study, but may draw only \$625 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. 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. Barbara A. Peterson, 5031 Sunrise Terrace, Victoria, B.C.

THE MILVA REID REVOLVING LOAN FUND

The Milva Reid Revolving Loan Fund, sponsored by Chapter V, P.E.O. Sisterhood, provides the sum of \$500 for short term loans to women students in attendance at University of Victoria. For further information please consult the President's office.

MID-TERM EMERGENCY STUDENT LOAN FUND

The Canadian Scholarship Trust Foundation considers loans for students who have made adequate plans for the academic year, only to have their plans break down by serious, unforeseen circumstances such as the death of a parent, sudden withdrawal of expected resources, the moving away of the family with consequent need for board and room. Application is made on special forms to the C.S.T. Foundation, Room 204, 160 Eglinton Avenue East, Toronto, Ont. Forms are normally sent to the Registrar of University of Victoria, in October.

STUDENT ASSISTANCE

University of Victoria has a small loan fund to assist students requiring financial assistance. For further information please consult the President's office.

Work in the Library and in the Cafeteria, at the rate of \$1.00 per hour, will be provided for students of good standing who require financial assistance. Application should be made to the Registrar at time of registration on a form available for this purpose.

SCHOLARSHIP AND PRIZE WINNERS, 1962-63

Miss Kathleen Agnew Scholarships of \$150.00 each	Gordon R. Pollard Mrs. Alison A. Armstrong
Alliance Française Prize of \$100.00	Pauline Owens
Beta Sigma Phi Sorority, Xi Nu Chapter, Annual Bursary of \$25.00	R. Lorraine Saunders
British America Paint Company Scholarship of \$100.00	Michael J. Woollends
British Columbia Cement Company Limited Scholarship of \$100.00 ..	John C. Tippet
British Columbia 1958 Centennial Scholarship of \$500.00 ..	Sidney D. Bulman-Fleming
British Columbia Hydro and Power Authority Scholarships of \$250.00 each	Paula M. Day David G. Haegert William F. Hubbard David F. Sargent
British Columbia Telephone Company Scholarship of \$100.00	Martin J. Moseley
Canadian Association for Health, Physical Education and Recreation, Inc. (Greater Victoria Branch) Scholarship of \$100.00	Berniece A. Climenhaga
John Wesley and Emily E. Church Memorial Scholarship of \$100.00 ..	Edward Curran
Clearihue Bursary of \$300.00	Glenda J. Keys
Comitas Club Annual Scholarship of \$50.00	Olivia Greenwood
Charles E. (Chuck) Copeland Memorial Scholarship of \$100.00 ..	Patricia M. McIvor
Edgar Ferrar Corbet Scholarship of \$250.00	Donna E. Smyth
Arthur S. Denny Scholarship of \$100.00	Rhoda M. S. Lee
Harold M. Diggon Memorial Bursary of \$200.00	Garry P. Kolodinsky
T. Eaton Company (Canada) Scholarship of \$200.00	John A. J. Matthews
Percy H. Elliott Memorial Scholarship of \$130.00	Kenneth W. Foster
Faculty Women's Club Prize of \$50.00	Anthea D. Fisk
Falk Scholarship of \$50.00	Donna E. Smyth
Camosun Gyro Club Scholarship of \$150.00	T. Rolf Turner
Victoria Gyro Club Scholarship of \$200.00	Andrew J. Cleland
William A. and Frances E. Harper Scholarship of \$75.00	Anne E. Kemp
Hudson's Bay Company Scholarship of \$396.00	Michael Somers
Municipal Chapter I.O.D.E. Scholarship of \$75.00	Ross Bryant
Municipal Chapter I.O.D.E. Scholarship of \$100.00	Colin W. Marmo
Island Tug and Barge Limited Scholarship of \$150.00	Richard A. Gough
Marian D. James Memorial Award of \$50.00	Linda Bishop
Robert H. B. Ker Scholarship of \$150.00	J. Erik de Bruyn
Kinsmen Club of Victoria Scholarship of \$250.00	Renée Poisson
Kiwanis Club of Oak Bay Scholarship of \$100.00	P. Wallace McGill
Kiwanis Club of Victoria Scholarship of \$250.00	John A. J. Matthews
Ladies' Auxiliary of Victoria Unit No. 12, Army, Navy and Air Force Veterans of Canada, General Proficiency Scholarships of \$100.00 each	Tanis F. M. Hinchcliffe Brian N. Turner
Lady Laurier Club Scholarship of \$100.00	Louis G. de Macedo
Lions Club of Victoria Scholarship of \$100.00	Harold T. Popma
Quita Nichol Bursary of \$50.00	Elsie C. Wollaston
Quita Nichol Bursary of \$100.00	E. Jane Turner
Quita Nichol Bursary of \$50.00	Joan M. Climenhaga (By reversion from Sylvia F. Stephens)
Benny Nicholas Memorial Award of \$100.00	Jack M. McLaren
Opti.-Mrs. Club Bursary of \$150.00	Sylvia A. Mobey (By reversion from Sister Andrea Marie)
Chapter 'N' P.E.O. Sisterhood Esther Pearce Memorial Prize of \$50.00	E. Jane Turner
General and Mrs. G. R. Pearkes Prize of \$50.00	David Gurr
Alan Pratt Memorial Scholarship of \$100.00	Judith A. Baines
Rithet Consolidated Limited Bursary of \$100.00	George H. Copley
Rotary Club of Douglas Scholarship of \$100.00	Paula M. Day
Rotary Club of Victoria Scholarship of \$250.00	Alan L. Sieber
Royal Canadian Legion Victoria and District Zone, Sir Percy Lake Memorial Scholarship of \$300.00	A. Robert W. McKellar

Royal Institution and Frank Eaton Memorial Scholarship of \$50.00	Elsie C. Wollaston
Madame E. Sanderson Memorial Scholarship of \$50.00	Elsie C. Wollaston
Edward J. Savannah Memorial Scholarship of \$150.00	D. Anthony Patriarche
Nora Lugin Shaw Memorial Scholarship of \$60.00	No Award this year
Andrew Sheret Limited Scholarships of \$75.00 each	Sandra A. McKeachie R. Lorraine Saunders
Sidney Roofing and Paper Company Scholarship of \$250.00. (Now awarded by MacMillan, Bloedel and Powell River Ltd.)	Richard A. Gough
Fred Spencer Scholarship of \$100.00	Thomas Torrance
University Women's Club Scholarship of \$200.00	E. Jane Turner
University Women's Club, Rosalind W. Young Scholarship of \$200.00	Linda G. Parfitt
Vancouver Island Branch, Engineering Institute of Canada Scholarship of \$100.00	Eric P. Newell
Victoria Council, United Commercial Travellers of America Scholarship of \$100.00	Walter Bell
Victoria and District Parent-Teacher Council Special Bursaries of \$150.00 each	Jennifer Costain Peter Haylett
Victoria Medical Society Scholarship of \$250.00	John A. Chapman
Victoria Natural History Society Scholarship of \$100.00	Gordon A. Robilliard
Victoria Unit No. 12, Army, Navy and Air Force Veterans of Canada Asso- ciation Scholarships of \$100.00 each	Susan M. Fawcett Malcolm J. R. Clark
Victoria West Parent-Teacher Association Bursary of \$50.00	David J. Thomson
Weber Memorial Bursary of \$100.00	David G. Haegert
Weston Bakeries Limited Scholarship of \$250.00	David S. Jamieson
Woodward Stores Limited Scholarship of \$250.00	Joan M. Climenhaga
Yarrows Limited Bursary of \$150.00	Eric P. Newell
Yorkshire and Canadian Trust Limited Scholarship of \$175.00	Anne E. Kemp
Birks Gold Watch	Catherine V. Hatch
Francis Gold Wrist Watch	Sydney D. Bulman-Fleming
Rose's Limited Jewelers Watch	Sister Linda Marie
Adelphi Book Shop Prize	Sylvia Mobey
First Year English Book Prize	Alan L. Sieber
Gwen Downes Memorial Book Prize	Dougal Fraser
The Haunted Bookshop Book Prize	Sister Linda Marie
French Government Medal	Mary Ferguson
French Government Book Prizes	E. Jane Turner Pauline Owens Rodger M. Kilduff Sylvia F. Stephens
German and Austrian Governments Book Prizes	Gordon G. Barefoot George H. Copley Barbara J. Dawson Michael W. Devlin Olivia A. Greenwood Mrs. Erika Huber Samuel L. Macey David J. Palmer D. Anthony Patriarche Renée Poisson
Spanish Government Book Prize	Brian Woodend
B.C. Historical Association Book Prizes	Mrs. Alison A. Armstrong Colin W. Marmo
Dr. and Mrs. Rodney Poisson Book Prize for Excellence in Shakespeare Studies	Paula M. Day David G. Haegert
G. B. Stark Memorial Slide Rule Prize	Sydney D. Bulnan-Fleming

EVENING DIVISION

Director: ROBERT T. D. WALLACE, M.A.

University of Victoria offers certain credit courses during the evenings and on Saturday mornings for the benefit of adults who are not able to attend the regular day session. The Evening Division term is the same as that of the regular session and classes are conducted for the same number of hours per week. No student may take more than one Evening Division course (3 units) in each session.

Students taking one course only of the Regular Session offerings must register by mail through the Evening Division before September 18. *Registration without penalty must be completed before lectures begin on September 21.* On and after September 21 a late registration fee of \$5.00 will be charged.

In addition to the Regular Credit Courses, the Evening Division offers a limited number of non-credit courses. The courses to be offered in the fall of 1964 will be announced during the late summer, and registration by mail will be arranged early in September.

SUMMER SESSION

Director: HUGH E. FARQUHAR, M.A.

The announcement of the courses to be offered in the Summer Session (approximately seven weeks in length) will be issued, if possible, before Easter, and will be available on request from the Registrar.

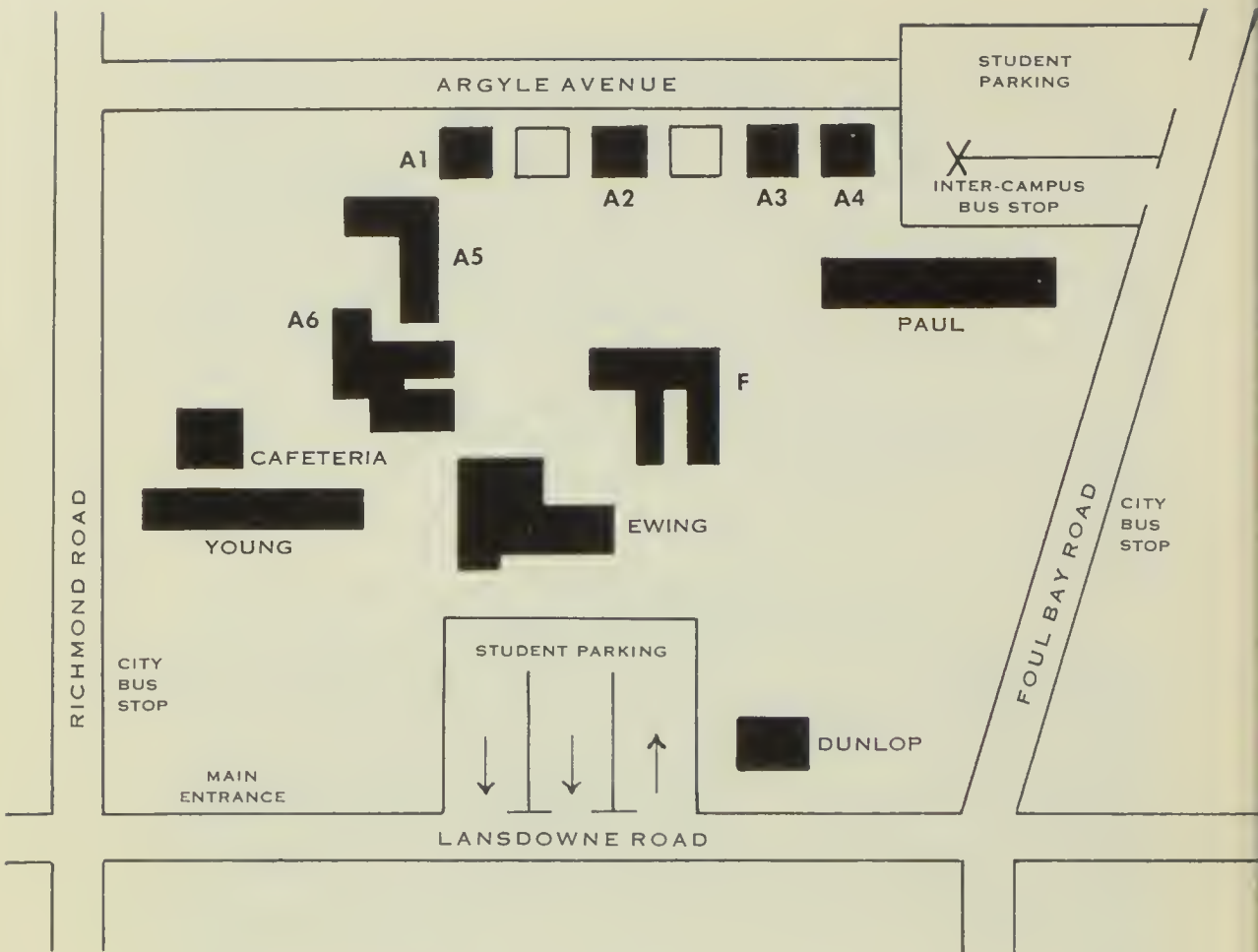
The regulations, etc., governing the Summer Session are as follows:

1. The maximum credit for Summer Session work in any one calendar year is 6 units. Correspondence courses may not be taken concurrently.
2. Students are required to register before the opening day of the session. A fee of twenty dollars (\$20.00) will be charged for late registration.
3. All students desiring to obtain formal credit for work done in the Summer Session must, upon entrance, present evidence of High School Graduation (University Programme) of this Province, or its equivalent.
4. Students must attend regularly the classes in a course for which they register. Those whose unexcused absences from such a course exceed one-eighth of its total number of meetings will not be credited with attendance in that course.
5. For statement of fees, see page 20.
6. Summer Session examinations are held at the close of the Summer Session.
7. For regulations regarding standing and credit, undergraduates should refer to page 31.

UNIVERSITY OF VICTORIA ALUMNI ASSOCIATION

Any student who has completed successfully 15 units of work at Victoria Normal School, Victoria College, or at University of Victoria, is automatically a member of the Alumni Association.

It is hoped that students will take an active interest in alumni affairs. Further information regarding the activities of the local branch may be obtained from Mr. Floyd Fairclough, Executive Secretary (Phone 385-3455).



UNIVERSITY OF VICTORIA — Lansdowne Campus

DIRECTORY

YOUNG BUILDING — Main Floor

Auditorium
Bursar
Accounting Department
Purchasing Department
Student Health Service

EWING BUILDING — Main Floor

President's Office
Registrar
Mail Room and Telephone Exchange

EWING BUILDING — Second Floor

Dean of Administration
Dean of the Faculty of Education
Student Counselling Service
Coordinator of Women's Activities

PAUL BUILDING

Bookstore

A 4

National Employment Service
(Student Placement)

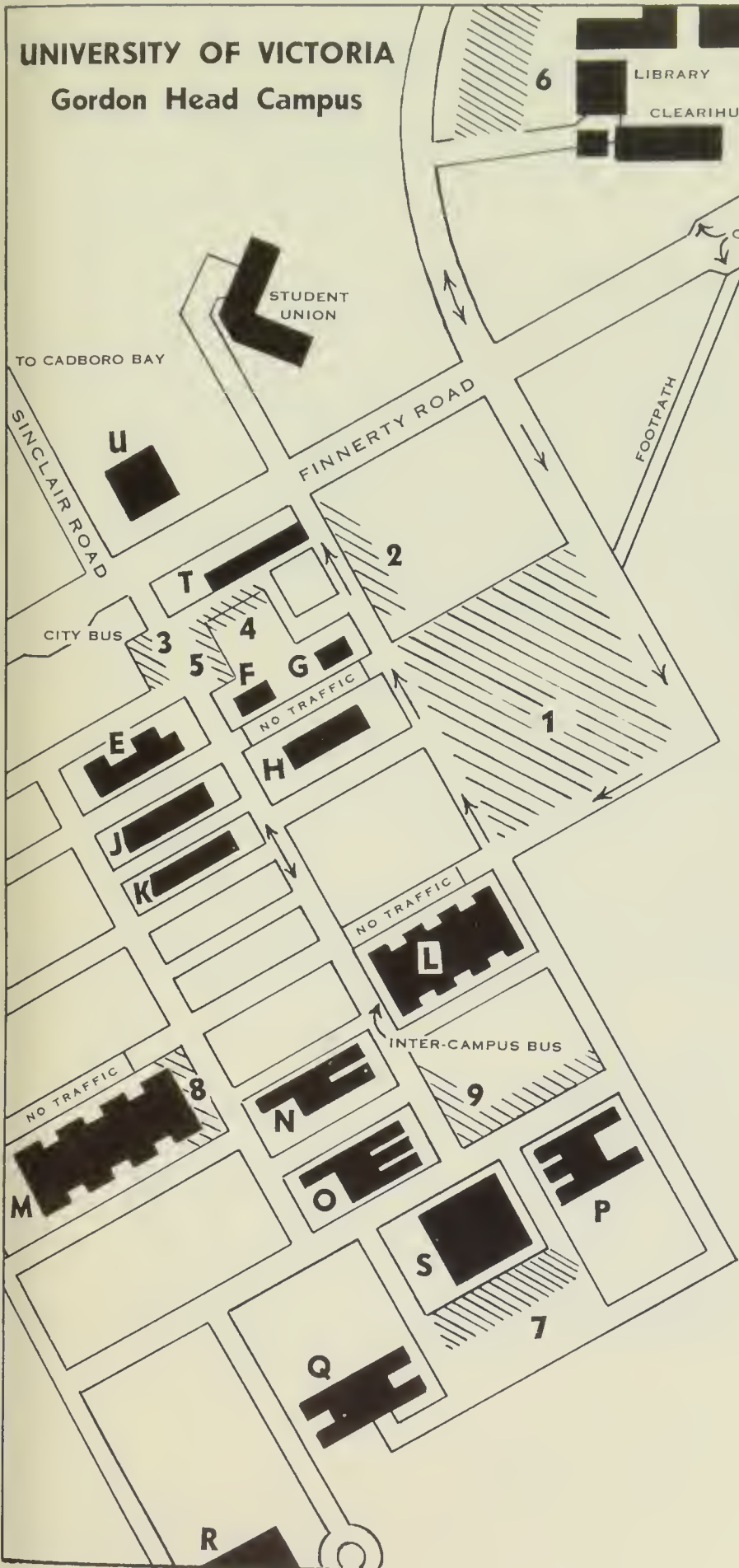
DUNLOP HOUSE

University Development Board

PARKING — All parking other than the two areas shown above is reserved.

UNIVERSITY OF VICTORIA

Gordon Head Campus



SCIENCE
LIBRARY
CLEARIHUE
TO CITY AND
LANSDOWNE CAMPUS
CITY AND INTER-CAMPUS BUS

TO CADBORO BAY

SINCLAIR ROAD

FINNERTY ROAD

FOOTPATH

CITY BUS

NO TRAFFIC

INTER-CAMPUS BUS

NO TRAFFIC

Key to Buildings

- E — Faculty Lounge
- F — Dept. of Education Office
- G — Buildings and Grounds Office
- H —
- J — Faculty Offices
- K — Faculty Offices
- L — Cafeteria
- M — Fine Arts Building
- N —
- O — Physics Labs
- P — Physical Education Dept.
Student Health Service
Reading Room
Classrooms
Changing Rooms
- Q — Carpenters' Shop
Theatre
- R — Administration Stores
- S — Gymnasium - Auditorium
- T — Buildings & Grounds Workshops
- U — Student Health Service

Key to Parking Areas

- 1 — Student and General
- 2 — Contractors' Staff
- 3 — Reserved — Visitors
- 4 — Reserved — Buildings and Grounds
- 5 — Reserved — Faculty
- 6 — Reserved — Faculty, Staff, Students' Council
- 7 — Student and General
- 8 — Student and General
- 9 — Student and General

Parking is permitted only in areas shaded on plan.

Speed limit is 20 m.p.h.

Parking is forbidden as follows:

- On any road, path, sidewalk, or shoulders thereof.
 - On any grossed area.
 - Adjacent to any building unless indicated.
 - In any bus or loading zone.
- Arrows indicate direction of traffic.

REGISTRATION FOR 1963-64

FACULTY OF ARTS AND SCIENCE

	<i>Men</i>	<i>Women</i>	<i>Total</i>
First Year	486	247	733
Second Year	328	113	441
Third Year	134	46	180
Fourth Year	114	33	147
Graduates	5	3	8
Total	1067	442	1509

FACULTY OF EDUCATION

Elementary Field

First Year Regular	24	117	141
Second Year Regular	25	87	112
Third Year Regular	10	33	43
Fourth Year Regular	5	13	18
Total	64	250	314
Second Year Transfers	34	76	110
Third Year Transfers	7	6	13
Fourth Year Transfers	1	1	2
Graduate Transfers	6	6	12
Total	48	89	137

Secondary Field

First Year	32	14	46
Second Year	17	1	18
Third Year	15	9	24
Fourth Year	15	4	19
Fifth Year	7	3	10
Graduates	5	3	8
Total	91	34	125
Total in Faculty	203	373	576

Grand Total	1270	815	2085
Evening Division Credit Courses	198	209	407
Evening Division Non-Credit Courses	451	670	1121
Summer Session, 1963, Credit Courses	351	515	866
Summer Session, 1963, Non-Credit Courses	60	37	97

DEGREES CONFERRED

1963

May Congregation:

May 27: B.A. - 43; B.Sc. - 15; B.Ed. - 26.

CHILDREN OF WAR DEAD (Education Assistance) ACT

This Act provides fees and monthly allowances for children of veterans whose death was attributable to military service. Enquiries should be directed to the nearest district office of the Department of Veterans' Affairs.

GOVERNMENT OF BRITISH COLUMBIA SCHOLARSHIPS

The Government of the Province of British Columbia, recognizing the necessity and worth of encouraging capable persons to embark upon or continue studies in higher education, has made available a significantly large number of scholarships for first-class and high second-class students.

Application forms for these scholarships may be obtained **after May 1** from the Department of Education, Victoria, B.C.; from the University of British Columbia, Vancouver, B.C.; from University of Victoria, Victoria, B.C.; and, where the student is attending school, from the Principals of Senior High Schools. Completed applications **must** be submitted by the dates specified.

GOVERNMENT BURSARIES

The Government of the Province of British Columbia, with contribution also by the Federal Government, provides funds annually for the award of bursary assistance to capable persons who can show financial need and who desire to embark upon or continue studies in higher education or in nurses' training.

Application forms for these bursary awards may be obtained **after May 1** from the Department of Education, Victoria, B.C.; from the University of British Columbia, Vancouver, B.C.; from University of Victoria, Victoria, B.C.; and, where the student is attending school, from the Principals of Senior High Schools. Completed applications **must** be submitted by the dates specified.

THE STUDENT AID LOAN FUND

By an Act of the Provincial Legislature, the University of British Columbia has been authorized to borrow money for the establishment of the Student Aid Loan Fund, to provide assistance, under prescribed conditions, enabling students to attend the University of British Columbia, University of Victoria, and certain other institutions.

Application forms for loans may be obtained from the Dean of Inter-Faculty Affairs at the University of British Columbia, Vancouver 8, B.C.; from University of Victoria, Victoria, B.C.; or from the Department of Education, Victoria, B.C.

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion (United Nations 1990).

It is important to note that the majority of the world's population is concentrated in the developing countries. The population of the world is expected to increase from 5.3 billion in 1990 to 6.5 billion in 2010, with 80% of the increase occurring in the developing countries (United Nations 1990).

There are a number of reasons why the population of the world is expected to increase. One of the main reasons is the high birth rate in the developing countries.

The birth rate in the developing countries is high because of a number of factors. One of the main factors is the high infant mortality rate.

Because of the high infant mortality rate, parents have to have a large number of children to ensure that at least a few of them will survive to adulthood.

Another factor is the lack of access to family planning services. In many developing countries, family planning services are not widely available or are not used.

This is because of a number of reasons. One of the main reasons is the cultural and religious beliefs that discourage the use of family planning.

Another reason is the lack of information about family planning. Many people in the developing countries do not know about family planning or do not understand its benefits.

Finally, the cost of family planning services is often too high for many people in the developing countries. This is because the government does not provide family planning services for free.

Another reason why the population of the world is expected to increase is the high life expectancy in the developed countries.

The life expectancy in the developed countries is high because of a number of factors. One of the main factors is the high standard of living.

The standard of living in the developed countries is high because of a number of factors. One of the main factors is the high level of education.

The level of education in the developed countries is high because of a number of factors. One of the main factors is the high level of investment in education.

Another factor is the high level of health care. The level of health care in the developed countries is high because of a number of factors.

One of the main factors is the high level of investment in health care. Another factor is the high level of research and development in health care.

Finally, the high level of income in the developed countries is a factor. The level of income in the developed countries is high because of a number of factors.

One of the main factors is the high level of investment in infrastructure. Another factor is the high level of innovation in technology.

Finally, the high level of government spending in the developed countries is a factor. The level of government spending in the developed countries is high because of a number of factors.

One of the main factors is the high level of investment in social services. Another factor is the high level of investment in health care.

Finally, the high level of investment in education is a factor. The level of investment in education in the developed countries is high because of a number of factors.

One of the main factors is the high level of investment in research and development. Another factor is the high level of investment in infrastructure.

Finally, the high level of investment in health care is a factor. The level of investment in health care in the developed countries is high because of a number of factors.

One of the main factors is the high level of investment in research and development. Another factor is the high level of investment in infrastructure.

Finally, the high level of investment in health care is a factor. The level of investment in health care in the developed countries is high because of a number of factors.