



UNIVERSITY
OF VICTORIA
LIBRARY

Monday, August 15

Last day for submission of applications for admission and applications for re-admission. Students are strongly advised to apply as early as possible. See page 26.

Tuesday, August 16

Fee for late submission of applications for **admission** and **re-admission** becomes effective. See page 30. No application, even upon payment of the late fee, will be received after September 1.

Monday, September 12 - Thursday, September 15

Registration in person. Students are informed by the Registrar's Office of the time and day.

Monday, September 19

Lectures begin at 8:30 a.m.

Late registration fee becomes effective. See page 30.

Saturday, September 24

Last day for changes in students' courses.

IMPORTANT NOTICE TO ALL STUDENTS

The Senate of the University has instituted new programmes for the B.A., B.Sc., and B.Ed. (Secondary) degrees, beginning with the regular session 1966-67.

1. All students entering for the first time in 1966-67 are required to follow these new programmes.
2. Students previously registered may elect to continue under the programmes in the Calendar for 1965-66 or, *wherever feasible and possible*, under the new programmes.
3. Students are urged to consult the Dean of the Faculty concerned, the Registrar, the University Counsellors, or the Heads and Chairmen of Departments about the new programmes. In addition, students should read carefully the requirements for the B.A., B.Sc., and B.Ed. (Secondary) degrees, as well as the departmental prescriptions.

Attention is called to the new programmes offered in the School of Graduate Studies. (See pages 160-171).

The University has authorized the establishment of a School of Fine Arts, offering the B.F.A., B.Mus., and a Diploma, but full details were not available at the time this Calendar was prepared.



UNIVERSITY OF VICTORIA

VICTORIA, BRITISH COLUMBIA, CANADA

Calendar *1966-67*

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.

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CALENDAR

August 1, 1966 to July 31, 1967

AUGUST							SEPTEMBER							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3							
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
														30	31					

NOVEMBER							DECEMBER							JANUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30	31				

FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4				1	2	3	4							
5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						

MAY							JUNE							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3							
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
														30	31					

ACADEMIC YEAR 1966 - 67

<i>Day</i>	<i>Date</i>	<i>Item</i>	1966
Monday	1 Aug.	Last day for submission of applications for bursaries.	
Monday	1 Aug.	Supplemental examinations begin.	
Friday	5 Aug.	Supplemental examinations end.	
Monday	15 Aug.	Last day for submission of applications for admission and applications for re-admission.	
Tuesday	16 Aug.	Fee for late submission of documents becomes effective 12:00 noon.	
Friday	19 Aug.	Summer Session ends.	
Thursday	1 Sept.	Academic Year begins.	
Monday	5 Sept.	Labour Day. University closed Saturday to Monday inclusive.	
Monday	12 Sept.	Assigned accommodation in University residences becomes available in the evening.	
Monday	12 Sept. } through	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.	
Thursday	15 Sept. }		
Wednesday	14 Sept.	Senate meets.	
Friday	16 Sept.	Programme of orientation for all new students, 9:30 a.m., University Gymnasium.	
Saturday	17 Sept.	Registration in person for all students receiving Notice of Admission to the School of Graduate Studies, at 9:30 a.m., Registrar's Office.	
Monday	19 Sept.	Lectures begin at 8:30 a.m. Late registration fee becomes effective.	
Saturday	24 Sept.	Last day for changes in students' courses; all changes must be reported to the Registrar's Office by this date.	
Monday	10 Oct.	Thanksgiving Day. University closed Saturday to Monday inclusive.	
Wednesday	12 Oct.	Senate meets.	
Friday	11 Nov.	Remembrance Day. University closed. (Friday and Saturday).	
Monday	5 Dec.	Last day of lectures.	
Thursday	8 Dec.	Examinations begin.	
Wednesday	14 Dec.	Senate meets.	
Saturday	17 Dec.	First term ends.	
Saturday	24 Dec. } Sunday	Christmas. University closed Saturday to Monday inclusive.	
Monday	26 Dec. }		
Saturday	31 Dec.	University closed.	

1967

Tuesday	3 Jan.	Second term begins. Second term fees due and payable.
Monday	9 Jan.	Late fee becomes effective.
Wednesday	8 Feb.	Senate meets.
Friday	10 Feb. } Saturday	Mid-term break. Classes cancelled.
	11 Feb. }	

Friday	24 Mar.	Good Friday. University closed Friday to Monday inclusive.
Monday	10 Apr.	Last day of lectures.
Wednesday	12 Apr.	Senate meets.
Friday	14 Apr.	Sessional examinations begin.
Monday	1 May	Sessional examinations end.
Saturday	20 May	Summer office hours become effective. University closed Saturdays until 4 September inclusive.
Monday	22 May	Victoria Day. University closed.
Sunday	28 May	Baccalaureate service.
Monday	29 May	Convocation.
	3 July-18 Aug.	Summer Session (1967).

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., M.A., B.C.L., LL.D.

PRESIDENT

Malcolm G. Taylor, B.A., M.A., Ph.D., LL.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, 1968.

A. B. Christopher. Term expires June 30, 1968.

R. B. Wilson. Term expires June 30, 1968.

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 1967.

G. F. Homer, M.D., F.R.C.S. (Eng.). Term expires February 1967.

R. M. Petrie, B.A., A.M., Ph.D. Term expires February 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:

C. Anthony Emery, M.A. Term expires June 1968.

Sydney W. Jackman, Ph.D. Term expires June 1968.

Alexander D. Kirk, M.Sc., Ph.D. Term expires June 1968.

R. E. L. Watson, M.A., Ph.D. Term expires June 1968.

Gwladys V. Downes, M.A., Docteur de l'Université de Paris. Term expires June 1967.

Bryan H. Farrell, M.A., Ph.D. Term expires June 1967.

W. H. Gaddes, M.A., Ph.D. Term expires June 1967.

G. P. Mason, M.A., Ph.D. Term expires June 1967.

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

Appointed by the Senate:

R. T. D. Wallace, M.A.

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. Ricker, 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

John C. M. Ogelsby, A.B., M.A., Ph.D. Term expires November 1967.
C. Vyner Brooke, B.A., Ph.D. Term expires November 1966.

Science

John N. Owens, B.S., M.S., Ph.D. Term expires November 1967.
H. W. Dosso, B.A., M.Sc. Term expires November 1966.

Education

Maureen C. Hibberson, B.P.E., M.A. Term expires November 1967.
John J. Sheppy, B.A., M.Ed. Term expires November 1966.

DEAN EMERITUS

Henry C. Gilliland, M.A. (*Brit. Col.*), Dean Emeritus of Education.

PROFESSOR EMERITUS

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

RECIPIENTS OF THE LL.D. (Honoris Causa)

*Charles Johnstone Armstrong, May 1961.

*Rosalind W. Young, May 1961.

Jeffree Aikin Cunningham, May 1964.

Walter Charles Koerner, November 1964.

W. Kaye Lamb, November 1964.

H. Rocke Robertson, November 1964.

*Under the former affiliation with U.B.C.

Louis-Albert Vaehon, November 1964.
Bristow Guy Ballard, May 1965.
Thomas Rice Henn, May 1965.
Robert Wellington Mayhew, May 1965.
George Randolph Pearkes, May 1965.

PROVINCIAL ACADEMIC BOARD FOR HIGHER EDUCATION

Appointed by the Lieutenant-Governor in Council:

S. N. F. Chant, O.B.E., M.A., LL.D. (*Chairman*).
T. Norbert Beaupré, M.Sc.
Harry M. Evans, B.A.

Appointed by University of Victoria:

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

Appointed by the University of British Columbia:

John D. Chapman, M.A., Ph.D.
Ian McTaggart Cowan, B.A., Ph.D., F.R.S.C.

Appointed by Simon Fraser University:

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

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, Dr. Fred T. Tyler, or his nominee.
Representative of Senate, Dr. David J. Chabassol.

Representing the Provincial Department of Education:

The Deputy Minister, Dr. G. N. Perry, or his nominee.
The 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. Searfe, or his nominee.
Representative of Senate, Dean Walter H. Gage, Chairman.

Representing Simon Fraser University:

The President, Dr. Patrick McTaggart Cowan, or his nominee.
The Dean of the Faculty of Education, Dr. A. R. MacKinnon, or his nominee.
Mr. Ronald J. Baker.

Representing the B.C. School Trustees' Association:

Mr. F. N. A. Rowell.
Mr. F. M. Reder.

Representing the B.C. Teachers' Federation:

Mr. C. D. Ovans.
Mr. J. W. Killeen.

Secretary: Mr. J. E. A. Parnall, Registrar, University of British Columbia.

OFFICERS AND STAFF

- Malcolm G. Taylor, B.A., M.A., Ph.D. (*Calif.*), LL.D. (*Alta.*), President.
Alex. J. Wood, M.S.A. (*Brit. Col.*), Ph.D. (*Cornell*), Dean of the Faculty of Arts and Science; Acting Director of the School of Fine Arts.
Fred T. Tyler, B.Sc., M.Ed. (*Alta.*), Ph.D. (*Calif.*), Dean of the Faculty of Education.
Robert T. D. Wallace, B.A., M.A. (*Brit. Col.*), Dean of Administration, Acting Director of Summer Session and Director of Evening Division.
Ronald R. Jeffels, C.D., B.A., B.Ed. (*Alta.*), M.A. (*Cantab.*), Dean of Student Affairs and Registrar.
J. Trevor Matthews, B.A. (*Brit. Col.*), M.B.A. (*Stanford*), Assistant to the President.
M. H. Scargill, B.A., Ph.D. (*Leeds*), Chairman of the Senate Committee on Graduate Studies.
Hugh E. Farquhar, M.A. (*Brit. Col.*), Director of Summer Session. (Leave of absence 1966-67).
Dean W. Halliwell, M.A. (*Sask.*), B.L.S. (*Tor.*), Head Librarian.
Robert W. McQueen, B.Com. (*Brit. Col.*), C.A., Bursar.
Ron J. P. Ferry, B.A. (*Tor.*), Admissions and Awards Officer.
Miss Patricia Sullivan, B.A. (*Sask.*), Associate Registrar.
Mrs. Marjorie Hoey, Assistant Registrar.
J. Arthur Webb, B.Sc. (*Alta.*), Director of Campus Planning.
David H. Dunsmuir, Information Officer.
William G. Bender, B.A. (*Brit. Col.*), Personnel Officer.
Miss Catherine D. Cameron, Secretary to the President.

OTHER DIVISIONS

Accounting:

- 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.Sc. (*Brit. Col.*), P.Eng., Superintendent.
George E. Apps, B.A.Sc. (*Brit. Col.*), P.Eng. Engineer.
Albert A. Lock, Supervisor of Services.

Bookstore:

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

Computer Centre:

- Peter A. Darling, M.A.Sc. (*Brit. Col.*), P.Eng., Director.
Robert C. Allen, B.Sc. (*Brit. Col. - Vic. Coll.*), Programme Analyst.

Counselling and Testing:

- Miss Esme N. Foord, M.A. (*Queen's*), B.Paed., Ed.D. (*Tor.*), Associate Professor, Director of Counselling and Testing.
James A. Johnson, C.D., M.A. (*Dalhousie*), Student Counsellor.

Student Health Service:

- Dr. J. E. Petersen, Director.
Mrs. W. Oliver, R.N., Nurse in charge.

Student Union Building:

- Richard F. Chudley, Manager.

Library:

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

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

Peter Hanlon, B.A. (*S.G.W.U.*), B.L.S. (*McGill*), Administrative Assistant.

Denis A. Godson, B.A. (*Brit. Col.*), B.L.S. (*Tor.*), Head of Special Materials Cataloguing Department.

Mrs. Helen Rodney, B.A. (*Alta.*), B.L.S. (*Tor.*), Head of Reference Department.

Mrs. June Thomson, B.A. (*Alta.*), M.A. (*Tor.*), B.L.S. (*McGill*), Head of Cataloguing Department.

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

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

Mrs. Barbara Browne, B.A., B.L.S. (*Brit. Col.*), Cataloguer.

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

Robert W. Farrell, M.A. (*Dublin*), B.L.S. (*McGill*), Acquisitions Librarian.

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

Mrs. Elizabeth H. Hagmeier, B.A. (*Queen's*), B.L.S. (*Tor.*), Reference Librarian.

Hugh C. Irving, B.A., B.L.S. (*Brit. Col.*), Cataloguer.

David Isaak, B.A. (*Man.*), B.L.S. (*Tor.*), Reference Librarian.

Mrs. Christine Morrison, B.A. (*Tor.*), B.L.S. (*Brit. Col.*), Cataloguer.

Miss Frances Rosecoe, B.A. (*Our Lady of the Elms*), M.L.S. (*U.C.L.A.*), Cataloguer.

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

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

Mrs. Jacqueline Thomson, B.A., B.L.S. (*Brit. Col.*), Reference Librarian.

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

Miss Jean I. Whiffin, B.A., B.L.S. (*Tor.*), Serials Librarian.

Evening Division:

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

Summer Session:

Hugh S. Farquhar, M.A. (*Brit. Col.*), Director. (Leave of absence 1966-67).

University Development Board:

Floyd A. Fairclough, Manager.

Women's Activities:

Mrs. O. Phoebe Noble, (*Brit. Col.*), Co-ordinator (to June 30, 1966).

Gillian Edgell, B.A. (*Brit. Col.*), Director of Women's Residences (to June 30, 1966).

Co-ordinator of Athletics:

Robert D. Bell, B.A. (P.E.) (*Sask.*), M.A. (*Oregon*).

FACULTY, TEACHING, AND RESEARCH STAFF

NOTE: The University Calendar goes to press in March. In consequence, the list of members of the Faculty, teaching and research staff may be subject to some modification when the academic session begins.

- Alcorn, Douglas E., M.D., C.M. (*McGill*), Cert. R.C.P. and S(C) Neur. and Psych., Part-time Lecturer, Psychology.
- Alford, Norman W., B.A. (*London*), Ph.D. (*Texas*), Assistant Professor, English.
- Algard, Franklin Thomas, A.B. (*San Jose State*), Ph.D. (*Stanford*), Associate Professor, Biology.
- Allen, Robert C., B.Sc. (*Brit. Col. - Vic. Coll.*), Programme Analyst; Lecturer, Mathematics.
- Archbold, Geoffrey J. D., B.A. (*Brit. Col.*), M.A. (*Cincinnati*), Assistant Professor, Classics.
- Ashlec, Thomas R., M.S. (*Idaho*), Honorary Curator of the Herbarium Biology.
- Auchinachie, Gerald M., B.A. (*Brit. Col.*), M.A. (*Tor.*), Instructor, English.
- Austin, A. Percival, B.Sc., Ph.D. (*Wales*), Assistant Professor, Biology.
- Baartz, Arne P., M.A., Ph.D. (*Oregon*), Assistant Professor, Mathematics.
- Baldner, Ralph, A.B. (*Miami, Ohio*), M.A. (*Vanderbilt*), Ph.D. (*Calif.*), Assistant Professor, Modern Languages.
- Ballantyne, David J., B.Com. (*Brit. Col.*), M.S. (*Wash. State*), Ph.D. (*Maryland*), Assistant Professor, Biology.
- Barnett, Howard B., A.R.C.T., B.A., Mus.Bac. (*Tor.*), M.A., Ph.D. (*S. Calif.*), Associate Professor, Education.
- Barr, Iain Y. A., B.Sc. (*U.N.B.*), Laboratory Instructor, Biology.
- Barrodale, Ian, B.Sc. (*Univ. Coll. of N. Wales*), Instructor, Mathematics. (Leave of absence 1966-67).
- Barron, David J., M.A. (*Aberdeen*), Instructor, English.
- Barss, Walter M. M.A. (*Brit. Col.*), Ph.D. (*Purdue*), Associate Professor, Physics.
- Bell, Marcus A. M., B.S.F. (*Brit. Col.*), M.F. (*Yale*), Ph.D. (*Brit. Col.*), Assistant Professor, Biology.
- Benzie, William, M.A., M.Ed. (*Aberdeen*), Assistant Professor and Director of Freshman English.
- Bertram, Gordon W., B.A. (*Brit. Col.*), Ph.D. (*Calif.*), Professor of Economics and Chairman of the Department of Economics and Political Science.
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- Carpenter, Andrew P. I., B.A. (*Oxon*), Instructor, English.
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- Christie, Mrs. Kathleen M., B.A. (*Brit. Col.*), Assistant Professor, Education. (Leave of absence 1966-67).
- Clark, Lewis J., B.A. (*Brit. Col.*), M.Sc. (*Wash.*), Ph.D. (*Oregon State*), Professor and Head of the Department of Chemistry. (Leave of absence 1966-67).
- Clinenhaga, John L., M.A. (*Sask.*), Ph.D. (*Michigan*), Professor and Head of the Department of Physics; Honorary Professor, Astronomy.
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- Edwards, P. M. H., F.T.C.L., A.R.C.M., L.R.A.M. (*London*), B.A. (*Brit. Col.*), M.A. (*Columbia*), M.A. (*Harvard*), Ph.D. (*Univ. of Penn.*), Associate Professor, Linguistics and Modern Languages.
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- Lane, Robert B., A.B., Ph.D. (*Wash.*), Associate Professor, Anthropology and Sociology.
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- Leeming, David J., B.Sc., (*Brit. Col.*), M.A. (*Oregon*), Instructor, Mathematics. (Leave of absence 1966-67).
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- McInerney, John Edward, B.Sc. (*Ottawa*), M.Sc., Ph.D. (*Brit. Col.*), Assistant Professor, Biology.
- Mackenzie, Alan, M.A. (*Aberdeen*), Instructor, English. (Leave of absence, 1966-67).
- McLaughlin, Mrs. R. Anne, B.Com. (*Brit. Col.*), Lecturer, Education.
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- Weaver, John T., B.Sc. (*Bristol*), M.Sc., Ph.D. (*Sask.*), Assistant Professor, Physics.
- Wendt, Hans Werner, B.A. (*Hamburg*), Ph.D. (*Marburg*), Visiting Associate Professor, Psychology.
- Westmark, Tory L., B.Ed. (*Alta.*), M.Ed., D.Ed. (*Oregon*), Associate Professor Education.
- Williams, Trevor L., B.A. (*Manchester*), Instructor, English.
- Wood, Alex. J., M.S.A. (*Brit. Col.*), Ph.D. (*Cornell*), Professor, Biochemistry; Dean of the Faculty of Arts and Science; Honorary Lecturer, Faculty of Education; Acting Director, School of Fine Arts.
- Wright, K. O., M.A. (*Tor.*), Ph.D. (*Michigan*), Honorary Professor, Astronomy.
- Yee, Shirley B. P., B.Sc. (*Alta.*), Laboratory Instructor, Chemistry.
- Zietlow, Edward R., M.A. (*Boston*), Instructor, English.

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. Dr. Malcolm Gordon Taylor was appointed first President of the University in July 1964.

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.

The Arms of the University

Extracts from the official description authorized by the College of Heralds, London: "Azure an open Book proper edged, bound and clasped Or; on a Chief Argent three Martlets Gules; And for the Crest on a Wreath of the Colours: dexter Cubit Arm proper in the hand a Torch erect Or enflamed also proper irradiated Gold and ensigned with a Scroll Argent thereon the Hebrew characters 'Let there be Light'."

Buildings on the Gordon Head Campus

Student Union Building (1962)
Clearihue Building (1962)
Elliott Building (1963)
Elliott Building: Lecture Wing (1964)
Emily Carr Hall (1964)
Margaret Newton Hall (1964)
McPherson Library (1964)
Campus Services Building (1965)
Education - Arts Building (1966)
Social Sciences Complex (1966)

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 tassel.

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.

Doctors

Academic regalia to be decided.

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. The Calendar for Summer Session and the brochure for Evening Division are published separately.

For the session of 1966-67 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.

At the graduate level, the University offers studies leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. Although the Master of Education is also approved by the Senate, it will not be offered in 1966-67; the M.A. is available in Education, however. The Senate has approved the establishment of a School of Fine Arts offering the degrees of Bachelor of Fine Arts and Bachelor of Music, and a Diploma; at the time the Calendar was being prepared, full details about programmes of study were not available. Enquiries should be directed to the Registrar or to the Acting Director of the School of Fine Arts.

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 at certain other universities. Courses preparatory to Medicine, Dentistry, Law, Architecture, etc., may be taken at the University. See page 174: **Pre-professional education.**

Normally a student may not be registered in two different institutions during the same academic year. Prior permission to be so registered must be obtained from the Dean of the Faculty concerned or from the Registrar.

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

1. Each applicant must obtain from the Office of the Registrar an **Application for Admission** form. This form will be available after May 1, and must be returned to the Registrar fully completed not later than August 15.
2. Each applicant applying for the first time must submit official transcripts of secondary school records and of any higher studies taken; these statements must accompany the Application for Admission form. 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. Applications not fully supported by all relevant documents by August 15 will be subject to a \$10.00 fee for late submission of documents.
3. All applicants will be informed in writing of their acceptance or rejection.

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 Pro-

gramme). 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 **by the preceding June**. An 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.

The following specific admission requirements apply, and if students are granted admission under these provisions, they will normally be admissible to the Second Year.

Applicants from other provinces will be considered for admission if they have full senior matriculation and if they meet the admission requirements of their own provincial universities. The University of Victoria requires for such students, an average of at least 60% with at least 50% in each subject.

An applicant who has completed his secondary education in another province and who becomes permanently domiciled in British Columbia will be considered for admission on the same basis as the graduates of Grade 12 (University Programme) and 13, British Columbia.

(a) Applicants from other Canadian provinces:

Alberta, Saskatchewan, Manitoba, Nova Scotia, Newfoundland — Grade 12.
— a language other than English is required to the Grade 12 level.

Ontario, New Brunswick — Grade 13.

— Ontario students presenting mathematics must write all three papers in Grade 13.

Quebec — McGill Senior School Certificate or equivalent.

Prince Edward Island — third year certificate from Prince of Wales College or equivalent.

(b) Applicants from other countries:

(i) General Certificate of Education (G.C.E.)

— standing in five subjects including English, a second language, mathematics, a laboratory science, and one academic elective, of which at least three must be at the Advanced (A) Level. At both Ordinary and Advanced Level an average grade of "3" with no subject below "4."

(ii) School Certificate — as for the G.C.E. (i) above, with three passes at the Principal Level on the Higher School Certificate.

(iii) University of Hong Kong Matriculation Certificate — standing equivalent to (i) above.

(iv) Certificate of Matriculation of recognized universities.

(v) High School Graduation and completion of at least one full year of study at an accredited college or university in the United States of America. Grade average of "B" or better. High School studies to include at least: 7 semesters of English, 4 semesters in a language other than English, 4 semesters laboratory science, 6 semesters mathematics.

(vi) Students from India must, as a minimum requirement, possess a bachelor's degree, division I.

NOTE: Distinguished students who have completed high school graduation only may be admitted to the First Year of the University.

3. Admission with Advanced Standing (Senior Matriculants)

A student who has been admitted to the University may be granted credit for courses taken and advanced placement in certain subjects upon evaluation of his

records by the Registrar or the Senate Committee on Admissions. If the University decides that the student's record does not warrant his being placed in the Second Year, he may be admitted to the First Year.

Depending upon the University's evaluation of a student's programme, he will be placed in one of the following categories: full student in the Second Year, conditioned student in the Second Year, or student in the First Year.

An applicant who has met the minimum requirements may be granted advanced standing in those subjects appropriate to the applicant's programme in which each individual subject standing is 60% or above.

(a) Admission from Grade 13 (B.C.)

An applicant for admission who has been registered in Grade 13 (B.C.), will be granted admission and credit for courses passed, subject to the following provisions:

- (i) Admission and credit will be granted provided that the applicant has passed a minimum of three courses at one sitting of the examinations conducted by the Department of Education; such applicants will be admitted to the First Year of the Faculty of Arts and Science or the Faculty of Education.
- (ii) Applicants presenting four courses (three of which must be passed at one sitting of the examinations conducted by the Department of Education) will be admitted to the Second Year of the Faculty of Arts and Science or the Faculty of Education as conditioned students.
- (iii) Applicants presenting five courses (three of which must be passed at one sitting of the examinations conducted by the Department of Education) will be admitted as full students in the Second Year of the Faculty of Arts and Science or the Faculty of Education.

A student who cannot qualify for admission under the provisions stated above may appeal in writing through the Registrar to the Senate Committee on Admissions. Each such case will be judged separately by that Committee.

Adult students will be considered on an individual basis and may, if marks obtained are satisfactory, be given credit for Grade 13 subjects taken one at a time. However, an adult-student may not receive credit 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) Credit for Grade 13 (B.C.) Courses Undertaken by Students who have already been Registered at University of Victoria

- (i) A student who has been admitted to the University and who has obtained at least 9 units of credit will not be given credit for any Grade 13 subjects passed subsequent to his attendance at the University, unless he can supply written evidence to the Registrar that he has undertaken a formal course of study and passed the examinations in the courses for which he is seeking credit. Authority from the Registrar is required before such students may undertake studies through Grade 13.
- (ii) A student who has failed his year at the University and received no credit for work undertaken may be given work for Grade 13 courses taken subsequently, subject to provisions (i), (ii), and (iii) of 3(a) and the special regulations for adult students.
- (iii) Distinguished students who, while regularly enrolled in a full programme of Grade 12 studies, undertake senior matriculation courses, and write and pass the examinations set by the Department of Education, may be given credit for courses passed. An evaluation will be carried out by the Registrar.

(c) Admission from Other Universities and Colleges

An applicant who has completed work at another university or college — or has the equivalent of Grade 13 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 programme.

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 16. Applications must be received in the Registrar's Office by September 1. **Registration without penalty must be completed before lectures begin on September 19.** On and after September 19 a late registration fee of \$10.00 will be charged. No registrations, even upon the payment of the late fee, will be received after September 24.

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 First Year, or under the age of seventeen to the Second Year.

7. Admission Requirements for B.C. Students Entering in 1967-68:

- (a) Students seeking admission in 1967-68 must have fulfilled the requirements for graduation from senior secondary school in the Academic and Technical programme prescribed by the Department of Education for the Province of British Columbia. A student must have fulfilled these requirements **by the June** of the year in which he is seeking admission; no student with a deficiency in his academic qualifications will be admitted.
- (b) Specifically, students seeking admission must have completed the following courses:

- English 11 and 12
- Social Studies 11
- Guidance and Physical and Health Education 11
- Mathematics 11
- One of: Biology 11, Chemistry 11, Physics 11
- *One of: French 11, German 11, Latin 11, Spanish 11

* A course in a Vocational Specialty may be substituted if a Technical Specialty is chosen.

In addition, he must have completed one of the Arts, Sciences, or Technical Specialties as set forth below:

Arts (Humanities)

Three courses selected from separate groups below, at least 2 courses of which must be numbered 12:

- 1. Lang. 12
- 2. Hi. 12 *or* Geo. 12
- 3. En. Lit. 12
- 4. Ma. 12
- 5. Another Lang. 11 *or* 12
- 6. Hi. 12 *or*
Geo. 12 *or*
Ec. 11 *or*
Law 11
(not taken under 2 above)

Sciences

Three courses:

- 1. Ma. 12
- 2. One of:
Bi. 12
Ch. 12
Ph. 12
- 3. One additional science chosen from Bi. 11, 12
Ch. 11, 12
Ph. 11, 12

Technical

Three courses:

- 1. Ma. 12
- 2. Bi. 12 *or*
Ch. 12 *or*
Ph. 12
- 3. Vocational Specialty 11 *or* 12
(not already chosen)

- (c) In choosing degree programmes, students are strongly urged to consult the prescriptions for the degrees of B.A., B.Sc., B.Ed. In particular, students choosing the B.Sc. degree should normally take the Sciences Specialty in the senior secondary school.

8. Teacher Education

Students who register in the Faculty of Arts and Science and who intend to transfer at a later date into the Faculty of Education (Secondary Programme) should plan their programmes with this in mind. In particular, they should be careful to specialize in two teaching areas of the senior secondary school curriculum. B.A. or B.Sc. graduates who do not meet this requirement are not normally admissible to the One Year Programme for Graduates. See B1, page 147 and B3, page 149.

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 15 in the case of a student proposing to attend the Winter Session, by May 1 for the Summer Session, and by September 1 for Evening Division. 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 considered 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 Monday, August 15. Students who have attended other educational institutions since last attending the University of Victoria must submit official transcripts with their applications for re-registration. They will also be required to register in person between September 12 and September 15. 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 15.

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 24.

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 for the first time in the Regular Session are required to take a medical examination. This examination may also be required of other full-time students who have not attended the University of Victoria for several years. The medical examination is not provided by the University; it must be obtained at the student's own expense. The necessary form is mailed to each applicant with the Notice of Admission, and it must be completed and mailed to the Student Health Service before registration can be completed.

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

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.

4. **Auditors:** Students may be admitted to certain courses as auditors, upon the payment of an appropriate fee. Such students may not write examinations and may not receive credit. Normally students may not register as auditors in courses having laboratory or practical sessions.

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 end of May, following granting of authority by the Senate to release marks. Students in the Faculty of Education will receive their statements of marks early in June. The results of Christmas examinations are released by instructors, not by the Registrar's office.

EVALUATION OF STUDENT ACHIEVEMENT

In the Regular Session 1965-66, the University of Victoria introduced a new system of student evaluation based upon the following letter grades:

Class	Letter Grade	Grade Point Value
First Class	A+, A, A-	9, 8, 7
Second Class	B+, B, B-	6, 5, 4
Pass	C+, C, D	3, 2, 1
Failure (conditional supplemental)	E	0
Failure (no supplemental)	F	0

TRANSCRIPT OF ACADEMIC RECORD

On request of the student, a transcript of a student's academic record will be mailed direct to the institution or agency indicated in the request. Each transcript must include the student's complete record at the University. Since credit earned is determined on the results of the sessional examinations, a transcript will not include results of Christmas or mid-term examinations. Transcripts are not available for the results of Christmas 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 first to the Director of Counselling and Testing and then to the Registrar. He will be required to obtain clearance from the University, to the satisfaction of the Registrar, before being granted **Honourable Dismissal** or recommended, where applicable, for refund of fees.

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

In particular, any student who in the course of his academic career receives no credit in any two academic years, whether they be consecutive or not, will be required to withdraw permanently.

SUPPLEMENTAL EXAMINATION CENTRES

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

The fee for each supplemental examination written at the University is \$7.50; at a regular outside centre, \$12.50. In the event that a candidate does not appear for an examination, the refund will be \$5.00 only. Conditions governing refunds appear on page 32 under "Other Fees and Charges."

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 1.

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 grade 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 grade 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.

SENATE REGULATIONS FOR UNIVERSITY EXAMINATIONS

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

8. Candidates who wish to speak to the invigilator should raise their hands or rise in their places.
9. Candidates may be called upon by the invigilator to produce identification papers bearing a photograph to prove their identity.
10. Candidates leaving or entering examination rooms should do so quietly in order not to disturb others. Having left the examination room, candidates are asked not to gather in adjacent corridors, lest they disturb candidates who are still writing.
11. Smoking is not permitted.
12. Candidates who fall ill during an examination should report at once to the invigilator 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 Regulations — All Programmes

1. The University reserves the right to change fees without notice.
2. Fees must be paid by certified cheques, bank or postal money orders, or travellers' cheques, payable to "University of Victoria".
3. Fees are not transferable from one session to another.
4. A late registration fee, additional to all other fees, will be charged when permission to register late is granted. This fee must be paid in full 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. The amounts of the late registration fees are as follows:
 Winter Session — \$25.00 on the first day of lectures in the first term, and \$25.00 plus \$5.00 a day thereafter.
 Summer Session — \$20.00.
 Evening Division — \$10.00.
5. The Graduating Class fee of \$10.00, authorized by the Board of Governors, is required at the time of registration from all students 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 enquiries with respect to the fee should be directed to the Alma Mater Society.
6. The proceeds of scholarships and bursaries issued by or through the University will be paid in two instalments, one at the beginning of each term. Each term's instalment will be applied against any unpaid fees for that term. Any excess balance will be paid to the student.
7. Students who withdraw 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.

Undergraduate Programme — Winter Session

1. First term tuition fees and the Alma Mater Society fee, together with the Graduating Class fee and late fees where required, must be paid in full at the time of registration. Until these fees have been paid the student's registration will not be complete, and he is not entitled to admission to classes.
2. Second term tuition fees may also be paid at the time of registration.
3. Tuition fees for a course of 12 or more units are \$214.00 per term.
4. Tuition fees for a course of less than 12 units are \$15.00 per unit per term.

5. The Alma Mater Society fee of \$30.00, authorized by the Board of Governors, is required at the time of registration from all students in the Winter Session for the support of the Alma Mater Society. Enquiries with respect to this fee should be directed to the President, Alma Mater Society.
6. A late application fee of \$10.00 will be required of all students who fail to submit their applications for admission or re-admission, together with all supporting documents, at the time required. See page 26. However, no student will be required to pay this fee if he also incurs the fee for late registration mentioned above.
7. Second term tuition fees may be paid at any time during the first term, but become payable in full on the first day of lectures in the second term. To avoid queuing at the cashier's wicket, students are advised to mail their payment to the Accounting Office before the commencement of the second term.
8. A late fee of \$5.00 will be assessed those students who fail to pay second term tuition fees by the end of the first week of lectures in the second term.
9. Where students fail to pay second term tuition fees before the end of the second week of lectures in the second term, the late fee will be increased to \$10.00, and their registration will be subject to cancellation for failure to settle their account in full. In the event of cancellation of registration, reinstatement will depend upon approval by the student's Dean and the payment of a \$10.00 reinstatement fee together with all other outstanding fees.
10. 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.

Undergraduate Programme — Summer Session

Tuition fees of \$30.00 per unit and a Student Union fee of \$2.00, together with the Graduating Class fee where required must be paid in full at the time of registration.

Undergraduate Programme — Evening Division

Tuition fees for these courses are \$15.00 per unit per term. First term and second term fees are payable on registration. The second term fees payment may be made by cheque post-dated to January 2, 1967.

Graduate Programmes — All Sessions

1. An application fee of \$5.00 should accompany the application for admission. This fee is not returnable, but will be applied to the tuition fees of candidates granted admission to the School of Graduate Studies.
2. A registration fee of \$5.00 will be assessed each student annually at the time of registration.
3. A Student Activities fee of \$30.00 must be paid once each year at the time of registration by all students registered for 9 or more units in a session.
4. Regulations governing the payment of tuition fees are the same as those for undergraduate students.
5. Tuition fees in the School of Graduate Studies cover all prescribed courses of study at the University of Victoria, direction and supervision of research, the use of laboratory and library facilities, and examinations. Tuition fees do not cover the cost of prescribed field trips, travel in connection with research, or the typing and binding of theses.
6. Tuition fees for the Master's programme are \$30.00 per unit up to a maximum of \$600.00.

7. Tuition fees for the Doctoral programme are \$30.00 per unit up to a maximum of \$900.00. Where a student takes both the Master's degree and the Doctor's degree at the University of Victoria, the total tuition fees for both degrees shall not exceed \$900.00.
8. Tuition fees for special students will be \$30.00 per unit.
9. A reinstatement fee of \$100.00 will be required of any student who wishes reinstatement after allowing his registration in the School of Graduate Studies to lapse without permission.
10. No refund of fees will be made except in cases of withdrawal owing to extenuating circumstances, such as illness or domestic affliction.

Other Fees and Charges

1. Students registered in Chemistry courses are required to purchase a laboratory ticket for \$3.00. These tickets will be on sale at the time of registration.
2. Students who incur Library and Parking fines will receive bills payable at the Accounting Office. Failure to settle these accounts may result in students being debarred from examinations.
3. M.S.I. coverage, supplementary to the University Health Services, may be purchased at the time of registration. Details are listed on page 36.
4. Rates for board and lodging in the University residence are listed on page 35.
5. 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 fees must be paid when application for examination is made and not later than July 1. In the event that a candidate does not appear for an examination, a refund will be authorized only if, within 10 days after the scheduled examination, the candidate submits to the Registrar an adequate explanation for failure to write the examination. If the refund is made, it will be \$5.00.
 Full refunds will be granted only to those students who cancel their application by July 15.
 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.

Student Aid Programmes

Student Aid Programmes are administered by Mr. Ron. J. P. Ferry, Admissions and Awards Officer, Registrar's Office. Students seeking advice about scholarships, fellowships, prizes, bursaries and loans should direct inquiries to Mr. Ferry.

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 1966, the book collection totalled approximately 200,000 volumes, and was growing at a rate of nearly 40,000 volumes annually. The Library regularly receives some 2,000 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, fines and hours of service are displayed prominently in the Library and published in the *Guide to the McPherson Library*, student edition. Full Library privileges are extended to all University of Victoria students and staff members, and may be granted to other persons upon application.

COUNSELLING, TESTING AND PLACEMENT OFFICES

COUNSELLING SERVICES

In order to help each student to obtain the maximum benefit from his University career and to develop his potentialities to the fullest extent, comprehensive counselling services are provided. The Counselling Office is staffed by fully qualified counsellors and is open throughout the year.

Pre-Admission Testing and Counselling:

University Aptitude Tests are administered to all prospective students. Testing Sessions are held during the spring months, both at the University and at district secondary schools for the convenience of all Vancouver Island students. Notices concerning testing dates and centres will be sent to district superintendents and principals in February. Additional testing sessions are held at the University during Registration Week in September for students coming from other areas and for those who missed the spring administration.

Students who plan 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.

Educational Counselling:

In addition to the services of the Counselling Office, each student is assigned to a faculty adviser, with whom he may discuss academic or other problems. The student is urged to take the initiative in becoming acquainted with his adviser.

The Counselling Office also assists students to discover weaknesses in their academic work and to plan remedial measures. Seminars on study methods will be held during the first term, October and November. A reading-study improvement programme will provide both group and individual assistance for students having difficulty with the basic skills of reading or learning. Students wishing to avail themselves of either of these services should register at the Counselling Office as early as possible in the first term.

Information on professional schools and postgraduate education is provided in the Counselling Office. A file of university calendars is maintained and information on financial aid is available. The Graduate Record Examination, which is a pre-requisite for admission to some Graduate schools, is administered twice yearly. Consult the Counselling Office for further information.

Vocational Counselling:

The Counselling Office assists students in self-appraisal of their interests and aptitudes and vocational tests are used when necessary. A library of vocational information is maintained. Seminars on career planning and occupational choice will be held during the second term, February and March. Those students who wish to participate in these seminars are requested to inform the Counselling Office early in the second term.

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 on the University campus, was established for the convenience of students, and has effected a considerable saving to them 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.

The Bookstore houses a collection of some 3,000 carefully selected titles in paperback editions which are a valuable source of information for essay writing and supplementary reading in general.

Also available are lab. coats, slide rules, brief cases, and art supplies as well as all general supplies such as note-books, loose-leaf refills, ballpoint pens, etc.

MEDICAL, HOUSING AND FOOD SERVICES

UNIVERSITY ACCOMMODATION FOR WOMEN STUDENTS

The University provides accommodation for 141 women students in two residences located adjacent to the Library and the Student Union Building: Emily Carr Hall and Margaret Newton Hall.

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 completed by the end of August for students who have returned their completed application forms (including a caution money deposit of \$25), and who 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 afternoon of the day before REGISTRATION. Meal passes will be issued to become effective for dinner on the day before the first day of LECTURES. During registration week meals may be obtained on Campus at current rates.

During 1966-67 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 8, 1966, and the second term payments before December 15, 1966.

Board and Residence

A list of private homes where students may obtain full board and room, or light housekeeping accommodation may be obtained from the Registrar's Office or the Office of the 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 \$70 to \$85 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 consult the University Housing Office before they accept accommodation obtained through newspaper advertisements.

Cafeteria

The University maintains a cafeteria where meals may be obtained at nominal prices.

UNIVERSITY HEALTH SERVICE

The University Health Service consists of an Out-Patient Department located in Hut "V", just north of the Student Union Building.

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 from 8:30 a.m. to 5:00 p.m. Monday to Friday and 8:30 a.m. to 12:30 noon on Saturday. A doctor is in attendance for consultations 11:30 a.m. to 1:30 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 these problems are incurred by illness or overwork.

M.S.I. provides supplementary coverage to the existing University Health Services. Students are advised to take advantage of this exceptional opportunity, unless they are already protected by their parents' health coverage. The cost of the plan is unusually low to the student. The dues for the period October 1, 1966 to September 30, 1967 are \$10.00 for single students and \$30.00 for married students. Applications must be accompanied by dues, and cannot be accepted after September 30, 1966.

Routine Regarding Sickness and Injury:

1. Students developing any illness are expected to report to the Health Service on the first day of illness.
2. Students absent three days 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 be in touch with the Health Service; and if absent from a December or April examination they 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

OFFICE OF THE DEAN OF STUDENT AFFAIRS

The Dean of Student Affairs serves as the liaison between the Alma Mater Society and the University.

ALMA MATER SOCIETY

The Alma Mater Society is the legally incorporated society of students 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. The Students' Council is elected on a campus-wide franchise. This Council consists of fifteen elected members:

President: chairs all meetings of the Society and the Council; is ultimately responsible for all departments on Council; is spokesman for the students, both within the University and in the community at large; sits ex-officio on all student committees and on many University committees as well, ensuring that he maintains a continuous intimate knowledge of the day-to-day life of the University.

Vice-President: is responsible for the policy making and administration of the A.M.S. Foreign Student Programme; assists the President wherever possible, and acts for the President in his absence; is Chairman of the Students' Means and Needs Committee; is called upon to chair various special committees from time to time, at the request of the President of Council.

Secretary: takes minutes of all meetings of the Society and of the Council, and is responsible for posting minutes; conducts correspondence of the Council, and keeps on file correspondence written and received; reads the Annual Report at the Annual Meeting; assumes the responsibility for conducting of elections.

Treasurer: prepares the budget of the Society; daily deposits funds received; does not disburse any funds except in payment of bills or requests authorized by Council; keeps careful account of, and is responsible for, all monies disbursed; renders as at December 31 and March 15 a statement of receipts and disbursements since August 31 of the previous year; obtains a financial report for each activity and function; subject to approval of the Council, has power to appoint a Business Manager; presents to the Council any recommendations from the auditors; insists on receiving a statement of proposed travel expenses before Council authorizes any allowance, and obtains a detailed account of actual expenditures with suitable receipts upon completion of the trip; authorizes payment of any specially designated funds directly to the Bursar; acts as Chairman of the Purchasing Committee.

Director of Men's Athletics and Director of Women's Athletics: carry out the duties of the Athletic Council; co-ordinate special athletic events.

Director of Publications: is responsible for the quality and the content and production of all publications under his control; appoints an editor for or edits the Student Handbook and the Student Directory; appoints Editors-in-Chief for the *Tower*, the *Martlet*, and any other campus publications; acts as Chairman of the Publications Board; is responsible for the production of all publications approved by the Council.

Director of Clubs: co-ordinates the activities of the approximately 45 campus clubs, by acting as Chairman of the Clubs Council. (The Clubs Council is elected from Club Presidents in September and consists of an appointed Treasurer, an elected Secretary, and seven representatives nominated from the various club categories — political, scientific, recreational, performing, discussion, linguistic, and religious. The Clubs Council receives reports of club activities and exercises control over club budgets. Each Group Representative is responsible for organizing co-operative programmes and projects among clubs in his group).

Activities Co-ordinator: chairs weekly meetings of the Activities Council which consists of a Special Events Chairman, an Assistant Special Events Chairman, a Social Convener, a Publicity Director, a Film Director, a Display Co-ordinator, and repre-

sentatives from the Clubs Council, the Athletic Council and the *Martlet*; reports to Council for this group.

Canadian Union of Students Chairman: has the responsibility of implementing campus policies decided upon by the C.U.S. at its annual national congress; sets up a student discount service with local stores; publicizes the C.U.S. life insurance plan; selects delegates for the C.U.S. scholarship system, as well as C.U.S. sponsored seminars; attends the national congress, along with the Council President.

Student Union Building Director: chairs the S.U.B. Management Board which sets all policy for the building; in conjunction with the Manager, sees that the policies are enacted and enforced; establishes and maintains a committee to work on plans for expansion of the building — the largest single item the A.M.S. will undertake; arranges such things as tours of the building, insurance, the supply of equipment to all A.M.S. departments, maintenance of the building, co-ordination of room use.

First Year Representatives: (one elected by first year women, and one by first year men at beginning of the academic year) provide contact between the Council and students; act as a sounding board for First Year Students' opinions; assist other Council members in various departments and often look after miscellaneous jobs which fall into no particular category.

Senior Year Representative: (must be a member of the Graduating Class and is elected by all Fourth and Fifth Year students) provides a direct liaison between the Council and the senior students; assists any other member of the Council in the performance of his duties.

Editor-in-Chief of the Martlet: (appointed to Council as a non-voting member by the Director of Publications) is responsible for the appointment of all junior editors and staff and for the publication, once weekly, of the *Martlet*.

President 1966-67: Mr. Stephen Bigsby
1965-66: Mr. Paul Williamson
1964-65: Mrs. Olivia Barr
1963-64: Mr. 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 Board of Governors prohibits hazing.

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

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

UNAUTHORIZED STUDENT ACTIVITIES

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

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.

UNIVERSITY SERVICE TRAINING CORPS

Selected students may take training in the University Contingent of the University Naval Training Division (U.N.T.D.), the Canadian Officers Training Corps (C.O.T.C.), or the R.C.A.F. (Reserve) University Reserve Training Plan (U.R.T.P.). All service training on the campus is under the jurisdiction of a Joint Services University Training Committee.

(a) RESERVE TRAINING

Enrolment in these reserve contingents is open to applicants who are Canadian citizens or British subjects with the status of "landed immigrant." They must be medically fit and have a sound academic background. Candidates must not have reached their 25th birthday before January 1 of the year of their graduation. With special approval they may be enrolled prior to their 17th birthday.

The training program consists of 64 hours of lectures, films and parade training commencing in September and continuing for one night a week throughout the academic year. Twenty-five hours of instruction are tri-service in content. Cadets must train 12-15 weeks during each of their first two summers with their respective services. A few cadets will be selected for third year training. Those not selected will be placed on the Reserve Retired List or released; those selected will continue training during the third academic year and 12 weeks of the third summer.

During the winter months cadets may receive pay equivalent to 16 full days for attendance on training nights, or a maximum of \$125.00. During their summer training, cadets receive pay at the rate of \$250.00 per month plus transportation travelling expenses, rations, quarters and medical services. They are issued with the required uniforms.

Recruiting is carried out during and after registration each fall term.

(b) REGULAR OFFICER TRAINING PLAN

A number of young men, who are interested in the Regular Force as a career, are accepted each year as R.O.T.P. officer cadets. They may be high school graduates or university students in any undergraduate year. Undergraduates enrolled in the service of their choice continue in university until graduation. They take their winter training with the Reserve Cadets and their summer training in their respective services. Application for admission is normally made before July 1 in the year of entrance but there is a further opportunity to join through the academic year. R.O.T.P. cadets receive, in addition to tuition fees, medical care, a book allowance of \$75.00, and basic pay of \$78.00 per month, plus a living allowance of \$65.00, during the time they are attending university. The R.O.T.P. cadet must undertake to serve a minimum of four years in the Regular Force following graduation.

Secondary school graduates and university undergraduates interested in the R.O.T.P. should interview the nearest Canadian Forces Recruiting Centre or write to the Director-General, Officer Cadets, C.F.H.Q., Ottawa, Ontario.

Students interested in joining the University Service Training Corps at the University of Victoria should get in touch with:

(U.N.T.D.) Navy: Lt. R. F. Chudley, Student Union Building.

(C.O.T.C.) Army: Major R. H. Roy, C.D., Department of History.

(U.R.T.P.) R.C.A.F.: Squadron Leader G. G. McOrmond, C.D., Department of English.

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.). Most departments offer programmes leading to the degree with Honours.

Registration and Admission

1. Registration must be completed by September 15, as described on page 26.
2. After September 24, 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.
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. Upon successful completion of such work, the student must request the Registrar of the other university to send an official transcript of record to the Registrar of the University of Victoria. 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.

Advanced Standing

See pages 23 to 25.

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 the first two years may not be transferred later to higher years.
4. No student may take more than 18 units and, without special permission of the Dean or the Registrar, fewer than 15 units, in each winter session.
5. Students may not receive University credit for courses passed for graduation from Senior Secondary School, 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 by the Department concerned prior to the final examination, and students who have not obtained a mark of at least D, 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. For the general University marking system, the student is referred to page 28 ("Evaluation of Student Achievement").

2. Candidates taking at least 15 units of work, and obtaining a grade of at least D in each subject, will be placed in one of the following categories on the basis of general average:

First Class, a grade point average of 7 (A—) or higher;

Second Class, a grade point average of 4 (B—) or higher;

Passed, a grade point average of 1 (D) or higher.

3.(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 D. 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 D. A student may be denied a passing mark, however, for unsatisfactory work during the session.

(c) A student in the Summer Session or in Evening Division courses will receive credit for each course in which he obtains a grade of at least D. A student may be denied a passing mark, however, for unsatisfactory work during the session.

4. 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, 200 or 201, no course may be repeated more than once.** In the winter session the total of all courses may not exceed 18 units.

5. 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 grade of E, 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; accordingly, a grade of E confers only conditional supplemental standing, and is not a guarantee of supplemental eligibility. A student who obtains a grade of F in a given subject may not write a supplemental examination in that subject.

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

2. A student in the final year of a degree programme taking only 12 units of course work will be granted supplemental privileges in 3 units, at the discretion of the Dean concerned and the Registrar, provided the student has written the final examination and obtained a grade of not less than D in the course for which supplemental privileges are granted.

3. If a supplemental granted in a course is passed with a grade of at least D, credit will be given for the course. In the computation of the overall average in the work of a session or for a degree, the grade in a supplemental, if passed, will be considered as D. Similarly the overall average will not be changed if a subject already passed is written for higher standing.

4. 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.

5. Supplemental examinations, covering the work of both the first and second terms, will be held in August.

6. Applications for supplemental examinations, accompanied by the necessary fees, must be in the hands of the Registrar by July 1.

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 not offered or has been discontinued, the supplemental privilege may be cancelled. Attention is also drawn to the section under "Standing and Credit."

Re-Readings

See page 29.

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, in the course of his academic career, receives no credit in any two academic years, whether they be consecutive or not, will be required to withdraw permanently. 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 to discontinue attendance for the remainder of the Session.

COURSES LEADING TO THE DEGREE OF B.A.

The Senate of the University has authorized, beginning in the academic session 1966-67, new programmes leading to the degree of B.A. All students registering for the first time in the regular session 1966-67 must follow one of these programmes. Students previously registered in the University may choose to follow either the Calendar prescriptions for 1965-66 or those for 1966-67, provided that such a choice is both feasible and possible. A choice having been made, the student must continue thereafter with the programme he has chosen. A student formerly registered will be requested to state his choice when completing APPLICATION FOR RE-ADMISSION for the session 1966-67.

	FIRST AND SECOND YEARS					THIRD AND FOURTH YEARS							
	English	Language	Groups A & B	Electives	Honours	HONOURS	MAJOR			GENERAL			
						See Departmental Prescriptions	Department Electives	Free Electives	Department 1	Department 2	Electives	Free Electives	
UNITS	6	6	12	6	3		15	9	6	9	9	6	6
TOTAL		30 or 33					30			30			

NOTE: This figure is a simplified representation of the requirements for the B.A. degree. Students must consult the pages which follow immediately, as well as the detailed prescriptions in departmental entries in this Calendar.

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

The Major and General programmes require the completion of a minimum of 60 units of course work chosen in conformity with Calendar regulations. The Honours programme is specified in the Calendar by the Department concerned.

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

- | | |
|--------------|-------------------------------------|
| Anthropology | Linguistics (Honours not available) |
| Classics | Mathematics |
| Economics | Philosophy |
| English | Political Science |
| French | Psychology |
| Geography | Russian (Honours not available) |
| German | Sociology |
| History | Spanish |

The General programme may also be chosen from one of the additional fields listed below:

Astronomy
Bacteriology
Biology
Chemistry
Physics

Students proceeding to a B.A. degree who are not concentrating in a science field are urged to consider the inclusion of a science course at some time in their degree programme.

FIRST AND SECOND YEARS

The requirements for the first two years are the same for all B.A. programmes. The student should note, however, that in certain Honours programmes an additional 3 units of course work may be required in the Second Year. Depending on his previous training or on the results of a special examination, the student may be given advanced placement in a subject. Departmental requirements should be consulted in conjunction with the following regulations:

- (a) In the First Year a minimum of 15 units is required; and in the Second Year a minimum of 15 units (in the case of certain Honours programmes 18 units).
- (b) English 100 must be taken in the First Year and English 200 or 201 in the Second Year.
- (c) To fulfil the language requirement, a student must complete the study of one language (French, German, Greek, Latin, Russian, Spanish) to the 200 level. The language requirement may be waived provided that the student proves to the Department his competence at the 200 level in one of the languages just listed.
- (d) In the combined First and Second Years, a student must take four courses chosen from Groups A and B; of these four courses, at least one must be taken from Group A and one from Group B. If, however, a student plans to choose a science as one of the concentrations under the General programme, or if his final choice between the B.A. and B.Sc. degree is still undecided, he may substitute one science course for one of the four courses without affecting the regulation that he must still choose one course from Group A and one from Group B. In making this selection, a student must examine departmental prerequisites and requirements for Honours, Majors, and General programmes.

Group A *Classical Studies 200, 315, 330, 340
*English 202, 245
Fine Arts 126, 200
French 140 or 180, 240 or 280, 290
German 100 or 140, 240 or 260, 290
Greek 100, 200
*History 101, 102, 200, 201, 212, 304 or 400
Latin 100, 140, 240, 320, 330, 340, 350
Mathematics 120 or 121, 200, 204, 220, 221, 222, 223
Music 101, 120, 201
Philosophy 100, 202, 212, 222, 302
Russian 100, 200
Spanish 100 or 140, 240 or 260, 290
Theatre 200

*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. Classical Studies 200 is open to First Year students with departmental approval.

Group B Anthropology 100, 200, 201
*Economics 100, 101, 200, 321, 340; **Commerce 151
Geography 101, 201, 204
Linguistics 100, 210
***Political Science 200
Psychology 100, 200, 220
Sociology 100, 200, 201

*Economics 321 or 340 may be taken concurrently with Economics 200 with the permission of the Department.

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

***Political Science 200 is open to First Year students but departmental approval is required.

(c) An additional 6 units to make up a total of 30 units (or 9 units in the case of certain Honours courses to make up a total of 33 units) of course work in the First and Second Years must be chosen from the courses listed in Groups A and B above or from the following: Astronomy 120; Bacteriology 200; Biology 150; Botany 205; Chemistry 100, 102, 204, 224, 230, 233; Geography 203; Geology 200; Physics 101, 103, 211, 212; Zoology 202. In making their selection, students must examine departmental prerequisites and requirements. Students are urged to consult the department as early as possible in their academic careers.

THIRD AND FOURTH YEARS

Honours Programme

A student may proceed to the B.A. degree in the Honours programme in Anthropology, Classics, Economics, English, French, Geography, German, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, Spanish.

The Honours programme of the B.A. degree requires the completion of the First and Second Years in conformity with the regulations above; the course work in the Third and Fourth Years must be selected to conform, after consultation with the Department, with the requirements set out on pages 53 to 129. The number of units required for an Honours programme varies between 60 and 69, depending upon the requirements of the department concerned. Unless special permission is given to the contrary, a student must complete the requirements for an Honours programme in four academic years.

By special arrangement, a student may be permitted to fulfil requirements for an Honours programme in two fields; however, such a programme may require an extra year of study.

A student planning to proceed in an Honours programme must consult the Head of the Department concerned, or his nominee, as early as possible in his academic career.

1. A student proposing to proceed in an Honours programme must obtain the consent of the Department concerned. This consent will normally be given only if (a) the Department offers an Honours programme; (b) the student has fulfilled the requirements of the first two years, and has at least Second Class standing in the work of the Second Year and in the field of specialization; and (c) the student has completed all prerequisite courses. He may not continue in an Honours programme after the Third Year without the consent of the Department concerned. If, in the opinion of the Department, his work at any time is not of Honours standard, a student may be permitted to transfer to the Major or General programme.
2. A candidate for Honours may be required to present a graduating essay, to pursue a programme of directed studies, or to participate in an Honours seminar. The final date for submitting graduating essays or research reports to the departments in the second term is left to the discretion of the Department concerned.
3. A candidate for Honours may be required at the end of his final year to take a comprehensive examination — oral, written, or both.
4. Honours are of two classes: First and Second. A student who passes all his courses but fails to obtain a Second Class standing in the work of his Third and Fourth Years may, upon recommendation of the Department, be granted appropriate standing in the Major or General programme.

Major Programme

A student may proceed to the B.A. degree with a major in any one of the fields listed on page 45.

In the combined Third and Fourth Years, a minimum of 30 units is required. Courses must be selected to include the major, consisting of 15 units of courses numbered 300 and above, as specified by the various Departments; six units of free electives; and 9 units of electives which may, when desirable, be prescribed by the Departments as co-requisites.

General Programme

The General programme requires, in the Third and Fourth Years, a minimum of 30 units. Of these 30 units, nine must be taken in courses numbered 300 or higher as may be specified by the department in each of two fields listed on pages 45 and 46. Twelve additional units are required of which six units must be selected outside the said fields (although they may, when desirable, include co-requisites to the fields of concentration), and six units of free electives.

NOTE: In the Major and General programmes, not more than nine units in courses numbered less than 300 may be counted for credit in the 30 units required in the combined Third and Fourth Years.

COURSES LEADING TO THE DEGREE OF B.Sc.

The Senate of the University has authorized, beginning in the academic session 1966-67, a programme leading to the degree of B.Sc. All students registering for the first time in the regular session 1966-67 must follow one of these programmes. Students previously registered in the University may choose to follow either the Calendar prescriptions for 1965-66 or those for 1966-67, provided that such a choice is both possible and feasible. A choice having been made, the student must continue thereafter with the programme he has chosen. A student formerly registered will be requested to state his choice when completing APPLICATION FOR RE-ADMISSION for the session 1966-67.

	FIRST AND SECOND YEARS						THIRD AND FOURTH YEARS							
	English	Mathematics	Science	Non-Science	Electives or Specified Courses	Honours	HONOURS	MAJOR			GENERAL			
							See Departmental Prescriptions	Department	Non-Science	Co-Requisites or Free Electives	Department 1	Department 2	Non-Science Electives	Free Electives
UNITS	3	3	15	3	6	3		15	6	9	9	9	6	6
TOTAL	30 or 33							30			30			

NOTE: This figure is a simplified representation of the requirements for the B.Sc. Students must consult the pages which follow immediately, as well as the detailed prescriptions in departmental entries in this Calendar.

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

Major and General programmes require the completion of a minimum of 60 units of course work chosen in conformity with Calendar regulations. The Honours programme is specified in the Calendar by the departments concerned.

A student may proceed to the B.Sc. degree in an Honours or Major programme in Astronomy, Biology, Botany, Chemistry, Geography, Mathematics, Physics, Psychology and Zoology; or in a General programme involving two science fields selected from the offerings of the Faculty of Arts and Science. Any student wishing a double concentration in the Department of Biology must register under the Major Programme, and must consult the Department.

NOTE: All courses in the following fields, except where otherwise noted, are considered to be science courses; they cannot be selected as non-science electives: Astronomy, Bacteriology, Biochemistry, Biology, Botany, Chemistry, Geography (Physical Geography and Geology only), Mathematics, Physics, Psychology*, Zoology.

*Psychology 100 may be chosen as a science only by those students taking a B.Sc. degree in Psychology; other B.Sc. students may choose Psychology 100 as a non-science elective.

Students intending to do graduate work are advised to consider inclusion of a modern language, preferably to the 200 level, at some time during their degree programme.

FIRST AND SECOND YEARS

The requirements in the first two years are the same for the Major and General programmes. The student should note, however, that in certain Honours programmes an additional three units of course work are required in the Second Year. Departmental requirements should be consulted in conjunction with the following general regulations:

(a) In the First Year a minimum of 15 units is required, and in the Second Year a minimum of 15 units (in the case of certain Honours programmes 18 units).

(b) English 100 and Mathematics 120 or 121 must be taken in the First Year.

(c) **Five of the following courses must be taken in the combined First and Second Years:** Astronomy 120; Bacteriology 200; Biology 150; Botany 205; Chemistry 100, 102, 204, 224, 230, 233; Geography 101, 203; Geology 200; Mathematics 220 or 221, 222 or 223; Physics 101, 103, 211, 212; Psychology 100*, 200; Zoology 202.

*Psychology 100 may be chosen as a science only by those students taking a B.Sc. degree with Honours in Psychology, a Major in Psychology or a General programme provided one of the fields of concentration is Psychology.

(d) **One of the following courses should be taken in the combined first two years** (although this requirement may be fulfilled at any time during the student's years of study); Anthropology 100, 200, 201; Classical Studies 200; Economics 100, 101, 200; English 200, 201; Fine Arts 126, 200; French 140, 180, 240, 280, 290; Geography 101*, 201, 204; German 100, 140, 240, 260, 290; Greek 100, 200; History 101, 102, 200, 201, 212; Latin 100, 140, 240; Linguistics 100, 210; Music 101, 120, 201; Philosophy 100, 202, 212, 222, 302; Political Science 200**, Psychology 100***, 220; Russian 100, 200; Sociology 100, 200, 201; Spanish 100, 140, 240, 260, 290; Theatre 200.

*Only if Geography 101 has not been chosen under (c) above.

**Political Science 200 is open to First Year students but departmental approval is required.

***Except as noted under (c).

(e) Six additional units, either as free electives or as specified in Departmental requirements for Honours or Major programmes.

(f) For certain Honours programmes, three additional units as specified by some Departments.

THIRD AND FOURTH YEARS

Honours Programme

A student may proceed to the B.Sc. degree in the Honours programme in Astronomy, Botany, Chemistry, Geography, Mathematics, Physics, Psychology and Zoology.

The Honours programme for the B.Sc. requires the completion of the First and Second Years in conformity with the regulations above. The course work in the Third and Fourth Years must be selected after consultation with the Department to conform with Departmental requirements. The total number of units required for the four years of an Honours programme (which varies between 60 and 69 units) is specified in the Calendar by the Department concerned.

By special arrangement, a student may be permitted to fulfil requirements for an Honours programme in two fields. However, such a programme may require an extra year of study.

A student planning to proceed in the Honours programme should consult the Head of the Department concerned, or his nominee, as early as possible in his academic career.

1. A student intending to proceed in an Honours programme must obtain the consent of the Department concerned. This consent will normally be given only if (a) the Department offers an Honours programme; (b) the student has fulfilled the requirements of the first two years, and has at least Second-Class standing in the work of the Second Year and in the field of specialization; and (c) the student has completed all prerequisite courses. He may not continue in an Honours programme after the Third Year without the consent of the Department concerned. If, in the opinion of the Department, his work at any time is not of Honours standard, a student may be required to transfer to the Major or General programme.
2. A candidate for Honours may be required to present a graduating essay, to pursue a programme of directed research, or to participate in an Honours seminar. The final date for submitting graduating essays or research reports to the departments in the second term is left to the discretion of the Department concerned.
3. A candidate for Honours may be required at the end of his final year to take a comprehensive examination—oral or written or both.
4. Honours are of two classes: First and Second. A student who passes all his courses but fails to obtain a Second Class standing in the work of his Third and Fourth years may, upon recommendation of the Department, be granted appropriate standing in the Major or General programme.

Major Programme

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

In the combined Third and Fourth Years a minimum of 30 units is required. Courses must be selected to include the Major, consisting of 15 units of courses numbered 300 and above in one of the fields listed on page 49, as specified by the various departments; six units of course work in non-science fields, although this requirement may be fulfilled at any time during the student's years of study; and at least nine units of course work in related fields co-requisite to the Major or as free electives.

General Programme

The General programme requires, in the Third and Fourth years, a minimum of 30 units. Of these 30 units, nine must be taken in courses numbered 300 or higher as may be specified by the departments in each of two science fields. Twelve additional units are required, of which six must consist of course work in the Humanities and Social Sciences (although this requirement may be fulfilled at any time during the student's years of study), and six units may be chosen without restriction.

NOTE: In the Major and General programmes not more than nine units in courses numbered less than 300 may be counted for credit in the 30 units required in the combined Third and Fourth Years.

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 lectures, laboratory 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. (*Tor.*), Associate Professor and Chairman of the Department.

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

Clyde R. Pope, B.A. (*Anderson College*), M.A. (*Chicago*), Ph.D. (*Oregon*), Assistant Professor.

Donald H. Mitchell, B.A., B.Com., M.A. (*Brit. Col.*), Instructor.

Dorothea Theodoratus, B.A. (*Sacramento*), Instructor.

T. Rennie Warburton, B.A. (*Leeds*), Lecturer.

GENERAL, MAJOR AND HONOURS PROGRAMMES

ANTHROPOLOGY

General — Second Year: Anthropology 200 or 201; Third and Fourth Years: nine additional units of Anthropology chosen from courses numbered 300 and above.

Major — Second Year: Anthropology 200 or 201; Third and Fourth Years: a total of 15 units in Anthropology including 300, 340, one Ethnology and six units chosen from topical and theoretical courses.

Honours — Students who have achieved at least high Second Class standing in Anthropology 200 or 201 may be admitted to the Third Year with the permission of the Department; Third and Fourth Years: a total of 18 units in Anthropology including 300, 340, 400, one Ethnology, and six additional units. Honours students will be expected to achieve satisfactory standing in courses in Linguistics and in techniques of analysis chosen in consultation with the Department. In addition, students must present a graduating essay.

SOCIOLOGY

General — Second Year: Sociology 200 or 201; Third and Fourth Years: Three courses in Sociology numbered 300 or above.

Major — Second Year: Sociology 200 or 201; Third and Fourth Years: A total of 15 units in Sociology, including Sociology 400 and 430.

Honours — Students who have achieved at least high Second Class standing in Sociology 200 or 201 may be admitted to the Third Year with the permission of the Department; Third and Fourth Years: a total of 18 units in Sociology, including Sociology 400 and 430. Honours students will be expected to achieve satisfactory standing in statistics courses to be chosen in consultation with the Department. In addition, students must present a graduating essay.

COURSES OFFERED

ANTHROPOLOGY

NOTE: Anthropology 100 and 200 are recommended for the general student as well as for those intending to major in Anthropology. Unless stated otherwise, Introductory Anthropology 100 or 200 is prerequisite for all courses numbered 300 or above. However, Anthropology 200 may be taken concurrently with advanced courses.

100. (Sociology 100) (3) **Introduction to Anthropology and Sociology**

Man, culture and society; concepts common to Anthropology and Sociology illustrated from the literature of the two fields. (3-0; 3-0)

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

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

201. (3) **Principles of Anthropology**

Examination of Physical Anthropology, Archeology and Ethnology; their contributions to the study of human physical and cultural variation. The comparative study of the major cultural institutions and of the operation of cultural systems.

Prerequisite: Anthropology 100 or by permission.

(Not offered in 1966-67).

(3-0; 3-0)

300. (Sociology 300) (3) **Comparative Social Organizations**

The nature, forms and functions of basic social institutions with primary emphasis upon the family, kinship and kinship-based groupings. (3-0; 3-0)

305. (1 ½) **Primitive Arts and Crafts**

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

306. (1 ½) **Folklore and Mythology**

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

310. (Sociology 310) (3) **Religion**

The study of religion as a social institution; an analysis of religious beliefs, acts, organizations, leadership and authority, with special reference to the social functions of religion and its relation to other elements of society. (3-0; 3-0)

322. (3) **Ethnology of North America**

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

324. (3) **Ethnology of Oceania**

Peoples and cultures of the Pacific Islands. Their origins and development.

(3-0; 3-0)

326. (3) **Ethnology of Circum-Polar Region**

The cultures of Arctic and sub-Arctic Eurasia and North America.

(3-0; 3-0)

328. (3) **Ethnology of South-East Asia and Indonesia**

The origins, development, and characteristics of the cultures of the major culture areas of the regions. (3-0; 3-0)

339. (3) **Indians of the Pacific Northwest**

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

Prerequisite: An introductory course in Anthropology or Sociology or by permission.

(3-0; 3-0)

340. (3) **Evolution of Man and Culture**

First term: fossil man and his primate ancestors; the development of modern human populations; principles of evolutionary theory. Second term: survey of the main developments in world prehistory; introduction to problems of archeological interpretation. (3-0; 3-0)

400. (3) **Anthropological Theory**

A survey of theory in Anthropology, of principal concepts utilized in the field, and of major contributors to the development of the field. (3-0; 3-0)

401. (1 ½) **Cultural Ecology**

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

Prerequisite: an introductory course in Anthropology or by permission. (0-0; 3-0)

405. (1 ½) **Economic Anthropology (Economics In Primitive and Peasant Societies)**

A comparative and analytical survey of traditional organization of production, exchange, and consumption in primitive and peasant societies. (3-0; 0-0)

406. (1 ½) **Anthropology of Political and Legal Institutions**

A comparative and analytical survey of political and legal institutions. (0-0; 3-0)

441. (3) **Archeology of the Pacific Northwest**

The excavation, description and analysis of archeological materials; a survey of North American prehistory; intensive study of problems of interpreting Pacific North-western archeological data. Field trips will be scheduled.

Prerequisite: an introductory course in Anthropology or by permission. (2-2; 2-2)

SOCIOLOGY

NOTE: Sociology 100 and 200 are recommended for the general student as well as for those intending to major in Sociology. Unless otherwise stated, Introductory Sociology 100 or 200 is prerequisite for all courses numbered 300 or above. However, Sociology 200 may be taken concurrently with an advanced course.

100. (Anthropology 100) (3) **Introduction to Anthropology and Sociology**

Man, culture and society; concepts common to Anthropology and Sociology illustrated from the literature of the two fields. (3-0; 3-0)

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

A general introduction to the perspectives and methods of sociology, including a consideration of basic concepts and problems in the analysis of groups and societies. (3-0; 3-0)

201. (3) **Principles of Sociology**

Perspectives and methods of sociology; basic concepts and problems in the analysis of groups and societies with special reference to Canadian society.

Prerequisite: Sociology 100 or by permission.

(Not offered in 1966-67). (3-0; 3-0)

300. (Anthropology 300) (3) **Comparative Social Organizations**

The nature, forms and functions of basic social institutions with primary emphasis upon the family, kinship and kinship-based groupings. (3-0; 3-0)

301. (3) **Social Deviance**

Forms, types and classes of social deviance; social roles of deviants; public attitudes toward deviation and non-conformity; problems resulting from social deviation; prevention and treatment. (3-0; 3-0)

310. (Anthropology 310) (3) **Sociology of Religion**

The study of religion as a social institution; an analysis of religious beliefs, acts, organizations, leadership and authority, with special reference to the social functions of religion and its relation to other elements of society. (3-0; 3-0)

315. (3) **Social Stratification**

Systematic analysis of social class theory and research; consideration of the determinants and consequences of social class and social mobility. (3-0; 3-0)

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

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

Prerequisite may be waived in exceptional cases. (3-0; 3-0)

325. (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. (3-0; 3-0)

330. (3) **Political Sociology**

The application of sociological concepts, theory, and methods to the study of political theory and political behaviour including the relationships between political and other social institutions.

Prerequisite may be waived in exceptional cases. (3-0; 3-0)

335. (3) **Minority and Ethnic Group Relations**

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

400. (3) **Sociological Theory**

A consideration of major sociological theories and theorists, the relation of earlier sociological thought to contemporary theory with special emphasis on recurrent problems and basic concepts. (3-0; 3-0)

430. (3) **Introduction to Social Research**

The nature of scientific enquiry; problems of research design including basic methods and techniques of research; examination of selected sociological studies. (3-0; 3-0)

DEPARTMENT OF ASTRONOMY

Colin D. Scarfe, M.Sc. (*Brit. Col.*), Ph.D. (*Cantab.*), Assistant Professor.

J. L. Climenhaga, M.A. (*Sask.*), Ph.D. (*Michigan*), Honorary Professor.

R. M. Petrie, B.A. (*Brit. Col.*), A.M., Ph.D. (*Michigan*), Honorary Professor.

K. O. Wright, M.A. (*Toronto*), Ph.D. (*Michigan*), Honorary Professor.

NOTE: Members of the Dominion Astrophysical Observatory staff lecture in the Department from time to time.

GENERAL, MAJOR AND HONOURS PROGRAMMES

General — First and Second years: Astronomy 120. Third and Fourth years: Any two of Astronomy 300, 400 or 402, plus 3 units of Physics chosen in consultation with the Department.

Major — First or Second year: Astronomy 120. Third and Fourth years: Astronomy 300, 400, 402, Physics 312, three additional units chosen in consultation with the Department.

Honours — Permission of the Department is required for admission to Honours. At least second class standing must be maintained.

First and Second years: Astronomy 120; Physics 101, 211, 212; Mathematics 120 or 121, 220 or 221, 222 or 223; Chemistry 102.

Third year: Astronomy 300; Physics 312, 321, 322, 413; Mathematics 330 or 331.

Fourth year: Astronomy 400, 402, 470; Physics 421, 460; Mathematics 345; three additional units chosen in consultation with the Department.

NOTE: Astronomy 300 may be interchanged with Mathematics 345.

COURSES OFFERED

120. (3) Elementary Astronomy

Basic ideas concerning astronomical co-ordinate systems; the nature of light; astronomical instruments; the solar system; stars and stellar systems; historical and philosophical implications of astronomy; current astronomical ideas and discoveries; practical work in observation and computation.

Prerequisites: Mathematics 120 or 121 (may be taken concurrently); Physics 12 or 101 (may be taken concurrently).

Text: Abell, *Exploration of the Universe*. (3-2; 3-2)

300. (3) Spherical and Dynamical Astronomy

Spherical trigonometry; the effects of refraction, aberration, parallax, precession and nutation on the apparent position of a heavenly body; the laws of Kepler and Newton and their application to the motions of planets, binary stars, and space vehicles; introduction to the dynamics of clusters and the galaxy.

Prerequisites: Astronomy 120 or the consent of the Department; Physics 211; Mathematics 330 or 331 should be taken concurrently.

Texts: Smart, *Spherical Astronomy*; van de Kamp, *Elements of Astromechanics*; Berman, *The Physical Principles of Astronautics*. (3-0; 3-0)

400. (3) Modern Astronomy

A variety of modern topics, including radio astronomy, cosmology, physics of the solar system.

Prerequisites: Astronomy 120 or the consent of the Department; Physics 322, 413 (may be taken concurrently); Mathematics 330 or 331.

Texts: Steinberg and Lequeux, *Radio Astronomy* (translated by R. N. Bracewell); others to be announced. (3-0; 3-0)

402. (3) **Introduction to Astrophysics**

The observational data of astrophysics; theory of stellar spectra; structure, constitution and evolution of the stars; interstellar matter.

Prerequisites: Astronomy 120 or the consent of the Department; Physics 312, 413 and 411 or 421 (may be taken concurrently); Mathematics 330 or 331, 345 (may be taken concurrently).

Texts: Dufay, *Introduction to Astrophysics: the Stars* (translated by O. Gingerich); Hynek, *Astrophysics, a Topical Symposium*. (3-0; 3-0)

470. (3) **Directed Studies in Astronomy.**

BACTERIOLOGY

Alex J. Wood, M.S.A. (*Brit. Col.*), Ph.D. (*Cornell*), Lecturer.

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

COURSES OFFERED

200. (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, Mathematics 120 or 121, which may be taken concurrently. This course is prerequisite to all other courses in the Department.

Texts: To be announced.

NOTE: Students who intend to continue their studies of Bacteriology are strongly advised to consult the Department before registering in this course.

Mrs. Johnston and Dr. Wood.

(2-3; 2-3)

BIOCHEMISTRY

Alex J. Wood, M.S.A. (*Brit. Col.*), Ph.D. (*Cornell*), Professor.

GENERAL, MAJOR AND HONOURS PROGRAMMES

General — A student electing the General Programme may take Biochemistry 400 (with permission of the Professor of Biochemistry). However he cannot qualify as a biochemist.

Major: As for Honours Programme, except:

1. No Thesis is required.
2. The Professor of Biochemistry will advise which courses, if any, may be omitted.

Honours —

Subject	Year 1	Year 2	Year 3	Year 4
English	Eng. 100	Eng. 200		
Language		‡Lang. 100	Lang. 100/200	
Mathematics	Math. 120	Math. 220	Math. 330	*
Physics	Phys. 102		Phys. 212	*
Chemistry	Chem. 102	Chem. 224 Chem. 233	Chem. 334 Chem. 344	§Chem. 435/445 Biochem. 400
Bio Science	‡Bact. 200	Bot. 205/ Zoo. 202 (Morphology)	Bot. 331/ Zoo. 305 (Physiology)	Bio. 332 (Genetics)
	15 hours	18 hours	18 hours	Biol. Elective (Cyt. Bot. 342/ Zoo. 302 (Myc. Bot. 415 (Phyc. Bot. 411 (Taxon. Bot. 404/ Zoo. 301 Sci. Elective (Biology (Chemistry (*Physics (*Mathematics THESIS

† Biology 150 is requisite to all other courses in Biochemistry, but may be considered fulfilled by any one of: Biology 105, Botany 105, Zoology 105, Bacteriology 100 or 200, Grade XIII Biology, Botany or Zoology, or the new two-year High School Biology programme. Where the Biology 150 requirement has been fulfilled previous to registration in the Biology Department, its place should be taken by another appropriate Biology, Botany or Zoology course.

§ Chemistry 435/445 may be offered without a laboratory for Biochemistry Majors.

‡ A very large proportion of those who have taken High School French elect another language. Some may choose, for example, German 100 and Russian 100.

NOTE: A second year student who wishes to undertake a Major or Honours in Biochemistry but has omitted in his First Year one of Physics 102, Chemistry 102, or Bacteriology 200 may apply to the Professor of Biochemistry for permission to waive Mathematics 330 or Physics 212. Normally, however, such a student will require five years to complete his Major or Honours in Biochemistry.

COURSES OFFERED

400. (3) Biochemistry

A comprehensive study of the chemistry of biological systems. Topics will include the chemistry of constituents of living organisms and of the anabolic and catabolic pathways of metabolism. Prerequisites: Mathematics 330, Chemistry 344.

Text: To be announced.

(2-3; 2-3)

DEPARTMENT OF BIOLOGY

- W. Gordon Fields, B.A. (*Brit. Col.*), A.M., Ph.D. (*Stanford*), Professor and Head of the Department.
- Franklin Thomas Algard, A.B. (*San Jose State*), Ph.D. (*Stanford*), Associate Professor.
- Derek Victor Ellis, B.Sc. (*Edin.*), M.Sc., Ph.D. (*McGill*), Associate Professor.
- Arthur R. Fontaine, B.Sc. (*McGill*), D. Phil. (*Oxon.*), Associate Professor. (Leave of absence 1966-67).
- Edwin M. Hagmeier, B.A. (*Queen's*), M.A., Ph.D. (*Brit. Col.*), Associate Professor.
- Alan Percival Austin, B.Sc., Ph.D. (*Wales*), Assistant Professor.
- David J. Ballantyne, B.Com. (*Brit. Col.*), M.S. (*Wash. State*), Ph.D. (*Maryland*), Assistant Professor.
- Marcus A. M. Beil, B.S.F. (*Brit. Col.*), M.F. (*Yale*), Ph.D. (*Brit. Col.*), Assistant Professor.
- John Edward McInerney, B.Sc. (*Ottawa*), M.Sc., Ph.D. (*Brit. Col.*), Assistant Professor.
- John N. Owens, B.S. (*Portland State*), M.S., Ph.D. (*Oregon State*), Assistant Professor.
- Robert G. B. Reid, B.Sc., Ph.D. (*Glasgow*), Assistant Professor.
- Jack Leroy Littlepage, B.A. (*San Diego*), Instructor.
- Theodorus H. Scholten, M.S.A. (*Ont. Agric. Coll.*), Ph.D. (*U. of West. Ont.*), Instructor.
- William F. Savale Jr., B.A. (*Harvard*), M.Sc. (*Mich.*), Lecturer.
- G. Clifford Carl, M.A. (*Brit. Col.*), Ph.D. (*Tor.*), Part-time Lecturer.
- K. Diane Vaughan (Mrs. F. W.), B.A., M.D. (*Brit. Col.*), Part-time Lecturer.
- Iain Y. A. Barr, B.Sc. (*U.N.B.*), Laboratory Instructor.
- Diana Caleb, B.A. (*Brit. Col. - Vic. Coll.*), Laboratory Instructor.
- Mary M. Dennis (Mrs. D. D.), M.S.A. (*Brit. Col.*), Laboratory Instructor.
- Peter A. Dill, M.Sc. (*Brit. Col.*), Laboratory Instructor.
- David Farrell, B.S.A. (*Brit. Col.*), Laboratory Instructor.
- Robert M. Hunt, B.A. (*Brit. Col. - Vic. Coll.*), Laboratory Instructor.
- Ruby W. Littlepage (Mrs. J. L.), M.A. (*Stanford*), Laboratory Instructor.
- David W. Martin, B.Sc., (*Brit. Col.*), Laboratory Instructor.
- Richard M. Pearce, B.A. (*Brit. Col.*), M.S. (*Oregon State*), Laboratory Instructor.
- Alison Reid (Mrs. R. G. B.), B.Sc. (*Glasgow*), Laboratory Instructor.
- R. Ann M. Thompson, B.Sc. (*Univ. of Victoria*), Laboratory Instructor.
- Josephine F. L. Hart (Mrs. G. C. Carl), M.A. (*Brit. Col.*), Ph.D. (*Tor.*), Honorary Research Associate.
- T. R. Ashlee, M.S. (*Idaho*), Honorary Curator of the Herbarium.

GENERAL, MAJOR AND HONOURS PROGRAMMES

Students planning to become professional biologists should expect to continue their studies into graduate school and, in preparation for this, are advised to take either an Honours or a Major B.Sc. in either Botany or Zoology. Students not planning to become professional biologists and not anticipating graduate work in this field may obtain basic instruction by taking a General B.Sc. or B.A. Programme with Biology as the area of concentration.

Students aspiring to professional status as biologists should understand that the bachelor's degree is not adequate and that they should be prepared to continue on to the master's or, preferably, the doctoral level to attain the required level of proficiency. Those selecting Biology courses for the B.Ed. (Secondary) degree should consult the Calendar under the Faculty of Education. In all cases, students planning a programme in Biology, Botany or Zoology should consult with members of the Department.

All programmes in the Department are built on a *Basic Programme* made up of two components: a *Biology Core* and a group of *Departmental Corequisites* in the physical

sciences. The Biology Core consists of an elementary survey course, two courses in taxonomic and evolutionary morphology, and one course each in physiology, genetics and, where possible, ecology. To this basic programme, other courses are added as required. The Basic Programme is made up of the following:

Biology Core:

1. Biology 150, or equivalent
2. Botany 205* (Plant Morphology)
3. One of Zoology 202* (Vertebrate Zoology) or Zoology 301 (Invertebrate Zoology). Zoology 301 may not be taken for credit in Second Year.
4. Biology 320 (Ecology) is advised for the General Programme and required for the Major Programme.
5. Biology 332-33 (Genetics)
6. One of Botany 331 (Plant Physiology), Zoology 303 (Vertebrate Physiology), or Zoology 305 (General and Cellular Physiology)

Departmental Corequisites:

7. Physics 101
8. Chemistry 100 or 102
9. Chemistry 230 or 233 is normally required.

NOTE: *Students who have taken Botany 105 (Introduction to Botany), and who are not majoring or honouring in Botany, may substitute this course for Botany 205 of the Core. Students majoring or honouring in Botany, who have taken Zoology 105 (General Zoology), may substitute this course for Zoology 202 of the Core.

Biology 150 is prerequisite to all other courses in the Department, but may be considered fulfilled by any one of: Biology 105, Botany 105, Zoology 105, Bacteriology 100 or 200, Grade XIII Biology, Botany or Zoology, or the new two-year Secondary School Biology programme. Where the Biology 150 requirement has been fulfilled prior to entry into the University, its place should be taken by another appropriate Biology, Botany, or Zoology Course. Physics 11 and 12 will be accepted as fulfilling the Physics 101 requirement, although students planning graduate work in Biology should attempt to take at least one university level course in this subject. Students planning the second concentration in Chemistry should select Chemistry 102 rather than Chemistry 100.

Core courses numbered 200 should normally precede those numbered 300, except that one of Botany 205 or Zoology 202 may be deferred until Third or Fourth Years in the General Programme only.

As a general rule, the Core programme should be completed as early as possible.

Biology 320 (Ecology) and Biology 332-33 (Genetics) may not be given in their present form in 1967-68, and students requiring either or both under curricular provisions for 1965-66 (or earlier) are advised to complete these requirements in the 1966-67 session. Students who can defer both Biology 320 and Biology 332-33 until 1967-68 are advised to do so.

Students should be aware that proficiency examinations in one or two modern languages are normally required in graduate studies; students planning graduate work are therefore advised to elect one or two courses in French, German, or Russian. Such students are further advised of the usefulness of Mathematics in biological work, and should take Mathematics courses to the 200 level where possible.

Students Honouring, Majoring, or concentrating in departments that require some training in biology may, with permission of the Biology Department, have certain of the usual departmental prerequisites waived.

BIOLOGY

B.Sc. General, with single concentration in Biology: the Basic Programme only.

B.A. General, with single concentration in Biology: the Basic Programme, except that Physics 101 and Chemistry 230 or 233 are not required.

EXAMPLES OF PROGRAMMES IN THE BIOLOGY DEPARTMENT

	B.A. GENERAL in Biology	B.Sc. GENERAL in Biology	MAJOR in Botany or Zoology	HONOURS in Botany or Zoology
I	English 100 Biology 150 1 in second area (Arts) 1 in Arts or Social Science Language 100	English 100 Biology 150 1 in second area (Science) Mathematics 120 or 121 Chemistry 100 or 102	English 100 Biology 150 Mathematics 120 or 121 Chemistry 100 or 102 1 in Arts or Social Science	English 100 Biology 150 Mathematics 120 or 121 Chemistry 100 or 102 1 in Arts or Social Science
II	English 200 or 201 Botany 205 or Zoology 202 1 in second area (Arts) Chemistry 102 or 100 Language 200	Botany 205 or Zoology 202 Physics 101 1 in second area (Science) Chemistry 230 1 in Arts or Social Science	Botany 205 Zoology 202 Physics 101 Chemistry 230 1 in Arts or Social Science	Botany 205 Zoology 202 Physics 101 Chemistry 230 Elective or corequisite
III	Botany 205 or Zoology 202 or 301 1 in second area (Arts) Biology 332-333 2 Electives	Botany 205 or Zoology 202 or 301 1 in second area (Science) Biology 332-333 Zoology 305, 303 or Botany 331 1 in Arts or Social Science	Botany 342 or Zoology 301 Zoology 305, 303 or Botany 331 Biology 320 Biology 332-333 Biology 304 or Mathematics 220 or 221	Botany 342 or Zoology 301 Zoology 305, 303 or Botany 331 Biology 320 Biology 332-333 Biology 304 or Mathematics 220 or 221
IV	Elective (Ecology advised) 2 in second area (Arts) Zoology 305, 303 or Botany 331 Elective	Elective (Ecology advised) 2 in second area (Science) Elective	Elective or corequisite 1 in Arts or Social Science 3 Botany or Zoology electives	4 electives Botany Thesis or Zoology Tutorial

NOTE: Students are advised to consult the Department for suitable selection of programme and course.

BOTANY

Major — the Basic Programme, together with Botany 342 (Plant Anatomy), and not less than three additional Botany or Biology courses chosen in consultation with the Department.

Honours — the Basic Programme, together with Chemistry 230 or 233 (required); Botany 342 (Plant Anatomy); Botany 449 (Thesis), other coursework to a total of at least 60 units, as determined by the Department, including Mathematics 220 (Calculus) and/or Biology 304 (Biometrics).

ZOOLOGY

Major — the Basic Programme, together with Zoology 301 (Invertebrate Zoology), and not less than three additional Zoology or Biology courses chosen in consultation with the Department. Zoology 202 and Botany 205 must be taken in the Second Year.

Honours — the Basic Programme, together with Chemistry 230 or 233 (required); Zoology 301 (Invertebrate Zoology); Zoology 449 (Thesis or Tutorial); other coursework to a total of at least 60 units as determined by the Department, including Mathematics 220 (Calculus) and/or Biology 304 (Biometrics). Zoology 202 and Botany 205 must be taken in the Second Year.

COURSES OFFERED

BIOLOGY

150. (3) Principles of Modern Biology

A broad introduction to biology, which gives full consideration to recent advances in the field. The course gives a coverage of cell biology, genetics, ecology, physiology, and a brief survey of plant and animal groups.

Text: To be announced.

Staff.

(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. Prerequisite: Mathematics 120 or 121.

Text: Li, *Statistical Inference, I*.

Mr. Ballantyne.

(2-2; 2-2)

320. (3) General Ecology

A survey of physiological ecology, population dynamics, communities and ecosystems. Laboratories are devoted to simple techniques, and to the carrying out of a field or laboratory problem.

Texts: Knight, *Basic Concepts of Ecology*; Odum, *Ecology*; Kormondy, *Readings in Ecology*.

Mr. 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.

Text: To be announced.

(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.

Texts: To be announced.

(0-3; 0-3)

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

Readings, lectures and seminars dealing with principles, history, and recent advances in biology.

Texts: Taylor, *The Science of Life*; Dampier, *A Shorter History of Science*; other readings as assigned.

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

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. (Not offered 1966-67).

Texts: To be announced. (2-4; 2-4)

406. (3) **Marine Ecology**

A study of biotic associations in the marine environment and the causative mechanisms for association. Prerequisites Biol. 320, Zool. 301 (Not given 1966-67).

Texts: Relevant scientific literature.

Mr. Ellis. (1-5; 1-5)

407. (3) **Oceanography**

An introduction to the principles of physical and biological oceanography. Primary productivity, physiology, ecology and distribution of planktonic organisms are emphasized. Students must be able to make periodic all-day (and occasional weekend) oceanographic cruises. Prerequisites: Chem. 102, Zoo. 301; recommended: Math. 120, or 121, Physics 101.

Texts: To be announced.

Mr. Littlepage. (2-4; 2-4)

BOTANY

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

A comprehensive survey of plant groups based largely upon morphology and phylogeny and designed to form a basis for further courses in Botany.

Text: Scagel, Bandoni, Rouse, Schofield, Stein and Taylor, *An Evolutionary Survey of the Plant Kingdom*.

Mr. Austin and Mr. Owens. (2-3; 2-3)

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

Growth and flowering; dormancy; mechanisms of ion exchange and salt accumulation; water relations; respiration and photosynthesis; synthesis of carbohydrates, fats and proteins. Prerequisites: Botany 105, Chemistry 102.

Texts: Fogg, *The Growth of Plants*; Lehninger, *Bioenergetics*; Street, *Plant Metabolism*.

Mr. 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 205.

Text: Esau, *Anatomy of Seed Plants*.

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

404. (3) **Taxonomy of Vascular Plants**

Classification, identification, nomenclature and geography of ferns, conifers and flowering plants; techniques of plant collecting, preservation and description using native British Columbia flora. The laboratory work develops familiarity with the major vascular plant groups in British Columbia. A collection of fifty identified and

properly annotated species (if possible collected the summer before) must be submitted by each student before completion of the course. Prerequisite: Botany 205.

Text: To be announced.

Mr. Bell.

(1-4; 1-4)

411. (3) **Phycology**

Introduction to most aspects of the biology of algae, with ecological work on the varied marine and freshwater communities of the Vancouver Island region. Laboratory work includes plankton techniques, photomicrography and algae microtechnique. Prerequisite: Botany 205.

Text: Round, *The Biology of the Algae*.

Mr. Austin.

(1-4; 1-4)

415. (3) **Introductory Mycology**

Morphology and taxonomy of fungi. Prerequisite: Botany 205.

Text: To be announced.

(1-4; 1-4)

418. (3) **Plant Ecology**

A study of the interrelationships between plants and their environment. Prerequisite or corequisite: Biol. 320 and permission of the instructor.

Text: To be announced.

Mr. Bell.

(2-3; 2-3)

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

Reading or limited research on any botanical problem under the direction of a staff member and with the approval of the Head of the Department. If desired, investigations may supplement another Botany course in the Department.

449. (3) **Honours Thesis**

Methods of scientific inquiry, use of literature, preparation of manuscripts and other applicable techniques. Directed investigation of a problem requiring a written scientific report. An oral defence of the thesis before the members of the Department may be required. (For honours students only).

ZOOLOGY

202. (3) **Vertebrote Zoology**

A study of the structural and functional adaptations of Chordates in relation to their evolutionary history.

Text: Young, *The Life of Vertebrates*, 2nd ed.

Mr. McInerney.

(2-3; 2-3)

301. (3) **Invertebrote Zoology**

Biology of invertebrate animals with particular emphasis on modern concepts and contemporary research.

Texts: Relevant scientific literature.

Mr. Ellis.

(2-3; 2-3)

302. (3) **Microanatomy**

Fundamentals of cell, tissue and organ form and function; reproduction and introductory embryology. Prerequisite: Zoology 202 or permission of instructor.

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

Mr. Algard.

(2-3; 2-3)

303. (3) **Vertebrote Physiology**

Tissue and organ physiology of mammals, and experimental work on small and large vertebrates, including the students themselves. Weekly laboratory reports re-

quired. Prerequisite or corequisite: Chemistry 230 or 233; recommended: Physics 101, and Zoology 202.

Mrs. Vaughau.

305. (3) **General and Cellular Physiology**

The first part of the course deals with fundamental aspects of physiology; function of cell structures; energy exchange; biosynthesis; enzymology. This is followed by a consideration of comparative aspects: feeding and digestion, respiration, excretion, salt and water relations, neurophysiology, endocrinology. The lectures and laboratory work are supplemented by regular group discussions. Prerequisite: Chemistry 102.

Texts: Lehninger, *Bioenergetics*; Swanson, *The Cell*; Baldwin, *Comparative Biochemistry*.

Mr. Reid.

(2-4; 2-4)

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

General problems in ecology, morphology, physiology and life histories of marine invertebrates. Prerequisites: Zoology 301 or equivalent and consent from the instructor.

Texts: To be announced.

Mr. Fields.

(2-3; 2-3)

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

The fishes, amphibians, reptiles, birds and mammals of British Columbia, with special emphasis on their form, evolution, distribution and natural history in general. The laboratory part consists of classification and identification.

Texts: To be announced.

Mr. Carl.

(2-3; 2-3)

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

Experimental studies in specific topics.

Prerequisite: Zoology 305 and permission of instructor.

Text: Readings, to be announced.

Mr. Reid.

(2-3; 2-3)

431. (3) **Ichthyology**

Selected topics on the morphological, physiological and behavioural adaptations of fishes. Prerequisite: Zoology 202.

Text: Norman, *A History of Fishes*, 2nd ed.

Mr. McInerney.

(2-3; 2-3)

432. (3) **Parasitology**

Study of the biology and taxonomy of parasitic organisms. Prerequisite: Zoology 301. (Not offered in 1966-67).

Text: To be announced.

(2-4; 2-4)

433. (3) **Experimental Morphogenesis**

Informal seminars, directed reading and lectures in the analysis of embryonic development by experimental methods, with consideration of mechanisms of differentiation of cells and tissues and their integration during morphogenesis. Prerequisites: Zoology 302 and permission of the instructor.

Texts: To be announced.

Mr. Algard.

(1-4; 1-4)

434. (3) **Ethology**

Analysis of the biological functions, causation and phylogeny of animal behaviour. Prerequisites: Zoology 202 and 301, or permission of the instructor.

Texts: Relevant scientific literature.

Mr. Ellis.

(2-3; 2-3)

435. (3) **Entomology**

An introduction to the taxonomy, biology, anatomy and physiology of insects, and consideration of their economic importance. The arachnids will be discussed. Prerequisite or corequisite: Zoology 301.

Text: To be announced.

(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).

GRADUATE COURSES

Students should consult the Department concerning the courses offered in any particular year.

510. (1-3) **Ichthyology**

511. (1-3) **Marine Invertebrate Zoology**

512. (1-3) **Ecology of Marine Benthos**

513. (1-3) **Topics in Vertebrate Anatomy and Embryology**

514. (1-3) **Zooplankton Ecology**

515. (1-3) **Physiology of Marine Animals**

516. (1-3) **Animal Ecology and Biogeography**

520. (1-3) **Mycology**

521. (1-3) **Phycology**

522. (1-3) **Plant Ecology**

523. (1-3) **Plant Physiology**

524. (1-3) **Plant Anatomy and Morphology**

550. (1-6) **Directed Studies**

560. (3) **Seminar**

599. (credit to be determined) **M.Sc. research and thesis**

699. (credit to be determined) **Ph.D. research and thesis**

DEPARTMENT OF CHEMISTRY

- Lewis J. Clark, B.A. (*Brit. Col.*), M.Sc. (*Wash.*), Ph.D. (*Oregon State*), Professor and Head of Department. (Leave of absence 1966-67).
- Stephen A. Ryce, B.A., Ph.D. (*Brit. Col.*), Associate Professor.
- Alexander D. Kirk, B.Sc., Ph.D. (*Edinburgh*), Associate Professor.
- Wilma E. Elias, M.A. (*Sask.*), Ph.D. (*Brit. Col.*), Assistant Professor.
- Sidney G. Gibbins, B.S. (*Calif. Inst. Tech.*), Ph.D. (*Wash.*), Assistant Professor.
- Douglas A. Hutchinson, M.Sc. (*Brit. Col.*), D.Phil. (*Oxon*), Assistant Professor.
- Neil Stewart Isaacs, B.Sc., Ph.D. (*Southampton*), Assistant Professor.
- Harry Lynton, B.Sc. (*London*), Ph.D. (*Leeds*), Assistant Professor.
- Donald J. MacLaurin, B.A.Sc. (*Brit. Col.*), M.S. (*Lawrence*), P.Eng. (*Brit. Col.*), Assistant Professor.
- Kenneth C. Moss, B.Sc., A.R.C.S., D.I.C., Ph.D. (*London*), Assistant Professor.
- Frank Price Robinson, A.B. (*Fisk*), Ph.D. (*Alta.*), Assistant Professor.
- Gisela Bradatsch, Dipl. Sci. (*Munich*), Laboratory Instructor.
- Elizabeth Dickman, B.A. (*Tor.*), Laboratory Instructor.
- John H. Harris, B.S.A. (*Brit. Col.*), M.S.A. (*Ont. Agric. Coll.*), Ph.D. (*Wash. State*), Part-time Laboratory Instructor.
- Karel Hartman, LIRI, C.T.C. (*Arnheim*), Laboratory Instructor.
- Henri Martel, B.Sc. (*Laval*), Laboratory Instructor.
- Barbara A. Rempel, B.Sc. (*McGill*), Laboratory Instructor.
- Shirley B. P. Yee, B.Sc. (*Alta.*), Laboratory Instructor.
- Gregory L. Owen, C.T. (*NOIT*), Laboratory Demonstrator.

GENERAL, MAJOR AND HONOURS PROGRAMMES

B.Sc. PROGRAMMES

Students may take an Honours, a Major, or a General B.Sc. degree in Chemistry. The Department will be glad to advise students in their choice of possible additional courses.

Students intending to do graduate work are advised to acquire a reading knowledge of a modern language, preferably German, Russian or French.

In order to gain the necessary flexibility, students who are undecided as to whether to take the Honours or the Major programme should, if they qualify, select First and Second Year courses to *satisfy the Honours requirements*.

General — B.Sc.: Any general programme with Chemistry as a nine-unit concentration must contain in the proper sequence: Chemistry 102, 224, 233, together with nine units in Chemistry courses numbered 300 or above, provided that the required prerequisites are also taken.

Major — B.Sc.: First and Second Year: as in the Honours programme.

The student is advised that he will gain increased freedom of choice in the combined third and fourth year options, if during the First and Second Year he chooses the additional six units (or nine units if an eighteen-unit second year is elected), from the list of electives on page 50.

Third Year: Chemistry 326, 331, 334, 344.
Mathematics 222 or 223 or 330 or 331.

Fourth Year: Chemistry 314, and at least one of Chemistry 424, 435, 445.
Biochemistry 400 is recommended as an elective.

Honours — B.Sc.: Permission of the Department is required for admission into Honours, upon applying to enter the Third Year. However, students who contemplate entering the Honours programme must consult the Department at registration before entering the Second Year. Students will be expected to maintain at least Second Class standing (B grades or better).

- First Year:* Chemistry 102*, Physics 101, Mathematics 120 or 121, English 100.
- Second Year:* Chemistry 224, 233, Physics 212, Mathematics 220 or 221.
In addition, to complete requirements to the end of the Second Year, the student must choose one course from group (d), and three additional units as a free elective. See page 50.
- Third Year:* Chemistry 314, 326, 331, 334, 344, 399.
Mathematics 222 or 223 or 330 or 331.
- Fourth Year:* Chemistry 424, 435, 445, 477, 499.

- NOTES *1. Students lacking Chemistry 11 may be required to take extra lectures. Students who have done well in B.C. Secondary School Mathematics and Chemistry 11 and 12 may be permitted, by the Department, to omit Chemistry 102 and register in Chemistry 224 in their First Year.
2. Permission of the Department is required to take Chemistry courses numbered 400 and above.
3. Except under unusual circumstances, a minimum average of B- will be required of 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 and Mathematics 91, or their equivalents, must consult the Department before registering for Chemistry 100 or 102.

100. (3) **General Principles of Chemistry**

A systematic study of the main principles of chemistry including the states of matter, the nuclear atom and chemical periodicity, chemical calculations, the chemical bond, elementary colloid, nuclear and organic chemistry. This course is designed for those proceeding to fields such as Nursing, Home Economics and Laboratory Technician. Credit will not be given for both Chemistry 100 and 102.

Text. To be announced.

Laboratory Manual: University of Victoria, Chemistry 100. (3-3; 3-3)

102. (3) **General Chemistry**

Introduction to fundamental theories, stoichiometry, the chemical bond, states and structure of matter, solutions, the chemistry of the representative elements, nuclear chemistry and chemical equilibrium. Co-requisite: Mathematics 120 or 121.

Text: To be announced.

Laboratory Manual: University of Victoria, Chemistry 102. (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, (Chemistry 100 with permission of the Department). Credit will not be given for both Chemistry 204 and 224.

Text: King, *Qualitative Analysis and Electrolytic Solutions*.

Laboratory Manual: University of Victoria, Chemistry 204. (3-4; 3-4)
(Not offered in 1966).

224. (3) **Introductory Inorganic and Physical Chemistry**

Introduction to thermodynamics and reaction kinetics, solution equilibria, acid-base theory, redox systems and their relation to chemical analysis, atomic and molecular structure, ionic crystals, descriptive chemistry. Prerequisites: Chemistry 102, Mathematics 120 or 121, and Physics 101. (Students taking a combined major in Chemistry and Biology should consult the Department of Chemistry before enrolling in Chemistry 224).

Text: King, *Qualitative Analysis and Electrolytic Solutions*.

Laboratory Manual: University of Victoria, Chemistry 224. (3-4; 3-4)

230. (3) **General Organic Chemistry**

A systematic study of the main principles of organic chemistry based on modern theory and the descriptive chemistry of aliphatic, aromatic and heterocyclic compounds. Prerequisite: Chemistry 100 or 102. This course is designed for students preparing to enter professional schools such as Medicine, Pharmacy, Dentistry, Forestry, and Nursing. Credit will not be given for both Chemistry 230 and 233.

Text: To be announced.

Laboratory Manual: To be announced. (3-3; 3-3)

233. (3) **Organic Chemistry**

An introduction to theoretical, physical and descriptive organic chemistry as exemplified by a study of the properties of aliphatic and simple aromatic compounds. Prerequisite: Chemistry 102. (Students taking a combined major in Chemistry and Biology may, with the permission of the Department, defer Chemistry 233 until the Third Year.)

Text: To be announced.

Laboratory Manual: To be announced. (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 204 or 224.

(1-4; 1-4)

326. (3) **Inorganic Chemistry**

Structure and reactions in inorganic chemistry. Atomic structure and periodic properties. Survey of chemical bonding, the ionic bond and theories of the covalent bond. The solid state. Complex compounds. Prerequisite: Chemistry 224. (3-4; 3-4)

331. (1) **Organic Qualitative Analysis**

The principles and practice of the qualitative analysis of organic compounds. Prerequisite: Chemistry 230 or 233.

Text and Laboratory Manual: Shriner, Fuson and Curtin, *The Systematic Identification of Organic Compounds*, Fifth Edition. (1-2; 0-2)

334. (2) **Physical Organic Chemistry**

Modern theories of organic chemistry, general principles of physical organic chemistry, electrical and steric factors in organic compounds; chemical, kinetic, steric, and isotopic criteria of organic reaction mechanisms. Prerequisites: Chemistry 224 and 233 (Chemistry 230 with permission of the Department).

Text: Hine, *Physical Organic Chemistry* (2nd ed.). (2-0; 3-0)

344. (3) **Physical Chemistry**

Kinetic theory of gases, thermodynamics, thermochemistry, atomic spectra, elementary quantum theory, chemical kinetics, solutions, phase equilibria, electro-chemistry. Prerequisites: Chemistry 224, Physics 212, Mathematics 220 or 221. (3-3; 3-3)

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

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

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

Modern theories of valency and molecular structure. The kinetic, thermodynamic and structural properties of co-ordination compounds. Organometallic chemistry. Prerequisites: Chemistry 326 and 344. (3-4; 3-4)*

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

Homolytic reactions, molecular orbital treatment of conjugated systems, interpretation of molecular, electronic and microwave spectra, mechanisms of oxidation and reduction, heterocyclic compounds, chemistry of the terpenes and steroids. molecular rearrangements. (3-4; 3-4)*

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

Quantum mechanics, atomic and molecular spectroscopy, thermodynamics, elementary statistical mechanics, chemical kinetics, photochemistry, electrochemistry, 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 reactions, radiation detection and measurement, nuclear counting, artificially produced elements, isotopic tracers in chemical applications. Prerequisite: Chemistry 344. (1-0; 1-0)

490. (1-3) **Directed Studies**

499. (2) **Thesis**

Experimental research under the direction of staff members. For Chemistry Honours students only. (0-6; 0-6)

* Although Chemistry 424, 435 and 445 share a total of two 4 hour laboratory periods per week, a student will be required to take appropriate laboratory work in the course or courses elected. Those who choose one or two of these courses will take one-third or two-thirds of the total Fourth Year laboratory.

Students taking Biochemistry 400 will not be required to take the laboratory portion of the courses 424, 435 or 445.

GRADUATE COURSES

Students should consult the Department concerning the courses offered in any particular year.

500. (3) **Research Methods and Techniques**

504. (3) **Surface and Colloid Chemistry and Heterogeneous Kinetics**

509. (1-3) **Seminar**

522. (3) **Current Topics in Inorganic Chemistry**

524. (1 ½) **Magnetochemistry of the Transition Elements**

526. (2) **Hydride Chemistry**

530. (1 ½) **Wood Chemistry**

536. (3) **Recent Advances in Organometallic Chemistry**

538. (1 ½) **Biogenesis of Natural Substances**

539. (2) **Carbohydrate Chemistry**

545. (3) **Reaction Kinetics and Reaction Rate Theory**

546. (3) **Spectroscopy and the Chemistry of Excited States**

550. (1 ½) **Elementary Applications of Group Theory**

554. (3) **Quantum Mechanics**

555. (3) **Statistical Mechanics**

556. (3) **Solid State Chemistry**

565. (2) **Theories and Applications of Nuclear Magnetic Resonances in Spectroscopy**
577. (3) **Nuclear and Radio Chemistry**
583. (1 ½) **Organic Synthetic Methods**
590. (1 ½ - 4 ½) **Directed Studies**
599. (credit to be determined) **M.Sc. Thesis**
630. (1) **Polynuclear Aromatic Compounds**
633. (3) **Chemistry of the Alkaloids**
634. (1 ½) **Enzyme Chemistry and Kinetics**
636. (3) **Chemistry of Heterocyclic Compounds**
663. (3) **Advanced Physical-Organic Chemistry**
699. (credit to be determined) **Ph.D. Thesis**

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.

Gisela Kampff, M.A. (*Alberta*), Assistant Professor.

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

GENERAL, MAJOR AND HONOURS PROGRAMMES

General — (concentration in Classics): *First and Second Years*: the completion of a course at the 200 level in one or more of the three areas (Latin, Greek, or Classical Studies). *Third and Fourth Years*: 9 units in Departmental offerings numbered above 300.

Major (Classics) — *First and Second Years*: at least two courses in the Department, with the study of either Latin or Greek carried (if possible) to the 200 level; *Third and Fourth Years*: 15 units in Departmental offerings numbered above 300, of which 9 units must be in a single area (Latin, Greek, or Classical Studies).

Honours (Classics) — Students of good general standing who have achieved a First Class or high Second Class standing in Latin or Greek during their first two years may be admitted, with departmental permission, into an intensified Honours programme. Interested students should consult the Chairman of the Department as early as possible in their first two years.

Individual Honours programmes in Classics may have an emphasis on either Latin or Greek, and on literary, historical, or philosophical enquiry. Although individual requirements will vary, students will take 30-36 units in their last two years, of which 18 units will be chosen from general upper-year courses in Classical Studies, Greek, and Latin, and 6 units from the special Honours courses. At least 6 units must be chosen from outside the Department of Classics.

If so advised by the Department, an Honours student may elect not more than one course each year in Latin or Greek for *double credit* (i.e., 6 units). In this event, he will be expected to study the subject in much greater depth than general students, and will be required to submit a considerable amount of written work.

Prerequisites for admission to Third Year: two courses in Latin and at least one in Greek; or two courses in Greek and at least one in Latin. Classical Studies 200 is recommended but not required.

NOTE: Graduating Honours students will be expected to demonstrate a reading knowledge of French or German.

COURSES OFFERED

CLASSICAL STUDIES

A knowledge of the Greek and Latin languages is not required for the following courses.

Classical Studies 200 is designed primarily as an elective for the general student, but is recommended also for prospective majors in Classics. It is not a prerequisite for subsequent courses in Classical Studies; with permission, Second Year students may proceed directly to Classical Studies 315, 330, or 340. Classical Studies 200 may not be taken by students who have already received credit for any course in Classical Studies at the 300 level.

Three units of credit in the Department of History will be given for Classical Studies 330 or 340.

200. (3) **Greek and Roman Civilization**

An approach to the ancient civilizations of Greece and Rome through the evidence of literature, history, and archaeology. The course is not a comprehensive historical survey, but a study of significant problems and selected cultural achievements. Discussion of classical religion and mythology; the growth of literature; philosophical and scientific enquiry; political ideals and realities; the evolution of the city-state and the world-state. Extensive reading will be required. Open to first year students with permission of the Department.

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

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. (Not offered 1966-67). (3-0; 3-0)

330. (3) **Greek History**

Early Aegean civilizations; the rise of the Greek city-state, with special emphasis on the political, economic, and cultural achievements of the fifth and fourth centuries B.C.; the Hellenistic world. (Not offered 1966-67). (3-0; 3-0)

340. (3) **Roman History**

The growth of Rome and the development of her political institutions during the Republic; the social and economic history of the Empire; the transition from the classical to the medieval world.

Miss Kampff. (3-0; 3-0)

460. (3) **Seminar in Ancient History**

Intensive study of selected topics in Greco-Roman civilization. Prerequisite: Classical Studies 330 or 340.

(Not offered 1966-67). (2-0; 2-0)

CLASSICS (Honours)

463. (3) **Third Year Seminar** (2-0; 2-0)

464. (3) **Fourth Year Seminar** (2-0; 2-0)

499. (1-3) **Graduating Essay** (0-0; 0-0)

GREEK

Greek 200 is open to students who have completed Greek 100 or its equivalent, and is a prerequisite to Greek courses at the 300 level.

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 1966-67). (3-0; 3-0)

340. (3) **Greek Philosophy**

A study of selected texts in Greek philosophy, with major emphasis on Plato's *Republic* and Aristotle's *Nicomachean Ethics*. (Not offered 1966-67). (3-0; 3-0)

350. (3) **Greek Historians**

The development of Greek historical enquiry, with emphasis on Herodotus and Thucydides. (Not offered 1966-67). (3-0; 3-0)

480. (1-3) **Greek Composition**

490. (1-3) **Directed Reading in Greek**

LATIN

Students who have received credit for high school Latin will be placed by the Department according to their ability. Normally, students with 4 years of high school Latin will register for Latin 240; those with 3 or 2 years, for Latin 140; and those with 1 year or no previous study, for Latin 100. Latin 240 is a prerequisite for all Latin courses at the 300 level except Latin 390, which is open to all Third and Fourth Year students who have a basic knowledge of Latin grammar (i.e., 3 or 4 years of high school Latin or 1 year of university Latin). Second Year students who have already completed Latin 240 or its equivalent should register for *one* of Latin 320, 330, 340, 350, or 360.

100. (3) **Beginners' Latin**

For students with no previous knowledge of Latin. A basic introduction to the Latin language, with elementary readings in Roman literature. Additional language laboratory sessions may be required.

Mrs. Efrat.

(4-0; 4-0)

140. (3) **Intermediate Latin**

Prerequisite: Latin 20 or Latin 100. Review of basic Latin grammar; practice in prose composition; selected readings in Latin literature and an introduction to Roman civilization.

Miss Kampff.

(4-0; 4-0)

240. (3) **Introduction to Latin Literature**

Prerequisite: Latin 92 or Latin 140 or First Class in Latin 100. 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)

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) **Lyrical and Elegiac**

A critical reading of the major Latin lyric and elegiac poets, including Catullus, Horace, Tibullus, Propertius, and Ovid. (Not offered 1966-67). (3-0; 3-0)

350. (3) **Roman Historians**

A study of Latin historiography; readings from Cicero, Sallust, Livy, and Tacitus. (Not offered 1966-67). (3-0; 3-0)

360. (3) **Roman Drama**

A study of the development of classical Roman drama from its Greek and native origins; major emphasis upon the comedies of Plautus and Terence; the tragedies of Seneca; the physical theatre of the Roman world. (Not offered 1966-67). (3-0; 3-0)

370. (3) **Roman Satire**

A survey of Roman satire from its origins, with an emphasis on Horace and Juvenal; study of Seneca's *Apocolocyntosis* and Petronius' *Satyricon*. (Not offered 1966-67). (3-0; 3-0)

390. (3) **History of the Latin Language**

The development of the Latin language, both literary and colloquial, from the period of earliest evidence until the emergence of the Romance languages. Study of morphology, phonology, vocabulary, syntax; Vulgar and Christian Latin. Prerequisite: a basic knowledge of Latin grammar (i.e., 3 or 4 years of high school Latin or 1 year of university Latin).

Mrs. Efrat. (3-0; 3-0)

480. (1-3) **Latin Composition**

490. (1-3) **Directed Reading in Latin**

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

- Gordon W. Bertram, B.A. (*Brit. Col.*), Ph.D. (*Calif.*), Professor of Economics and Chairman of the Department.
- G. Reid Elliott, B.A. (*Sask.*), M.A., Ph.D. (*Tor.*), Professor of Economics.
- Malcolm G. Taylor, M.A., Ph.D. (*Calif.*), LL.D. (*Alta.*), Professor of Political Science.
- Ronald I. Cheffins, B.A., LL.B. (*Brit. Col.*), LL.M. (*Yale*), Associate Professor of Political Science and Public Law.
- Izzud-Din Pal, M.A. (*Panjab*), M.Sc.Econ. (*London*), Ph.D. (*McGill*), Associate Professor of Economics.
- W. R. Derrick Sewell, B.Sc. (*London*), M.A., Ph.D. (*Wash.*), Associate Professor of Geography and Economics.
- Neil A. Swainson, B.A., B.Ed., M.A. (*Brit. Col.*), Associate Professor of Political Science.
- Edgar S. Efrat, B.A. (*Reed Coll.*), M.A., Ph.D. (*Texas*), Assistant Professor of Political Science.
- J. Colin H. Jones, B.A. (*Univ. Coll. of Wales*), M.A. (*Montana State*), Assistant Professor of Economics.
- Charles D. Tarlton, M.A., Ph.D. (*U.C.L.A.*), Assistant Professor of Political Science.
- R. A. L. Carter, B.A. (*R.M.C.*), Instructor in Economics.
- Robert W. McQueen, B.Com. (*Brit. Col.*), C.A., Part-time Lecturer in Commerce.

GENERAL, MAJOR AND HONOURS PROGRAMMES

ECONOMICS

Recommendations:

- (i) For Economics taken as a Free elective:
 - (a) First and Second Years: Economics 100, 101 and 200 are recommended. Economics 321 or Economics 340 may be taken concurrently with Economics 200 in the Second Year with permission.
 - (b) Third and Fourth Years: any course in Economics may be taken subject to the regulations governing the prerequisite courses.

Requirements:

- (i) For General Programme with 9 units in Economics:
 - (a) One of Economics 100, 101 or 321;
 - (b) Economics 200;
 - (c) One of Economics 300 or 305 and 6 additional units in Economics courses numbered 300 or above. However, students in this programme who are planning a more intensive background in Economics are advised to include Economics 300 as one of their upper division courses.
- (ii) For Major:
 - (a) One of Economics 100, 101 or 321;
 - (b) Mathematics 120 or 121;
 - (c) Economics 200 with at least a second class standing;
 - (d) Economics 300, Economics 340, one of Economics 305 or 400, and 6 additional units in Economics courses numbered above 300 of which at least 3 units must be in a course numbered 400 or above.

Recommended: Political Science 200.

(iii) For Honours:

- (a) One of Economics 100, 101 or 321;
- (b) Mathematics 120 or 121;
- (c) Economics 200 with at least a high second class standing;

(d) Economics 300, 340, 400, 401, 470 and 9 additional units in Economics courses numbered above 300; 12 additional units of which at least 6 units must be in another subject or subjects with the approval of the Department.

Recommended: Commerce 151, Mathematics 220 or 221.

(e) Admission to Honours programme, which should be sought at the end of the Second Year, requires permission of the Department. Interested students should consult the Department as early as possible in the first two years. Students will be admitted to Honours programme only if they have obtained at least a second class standing in the Second Year. They will be required to maintain at least a second class average in Economics courses taken in the Third and Fourth Years. Economics 470 is required for all Fourth Year Honours students. Third Year Honours students are advised to attend the Seminars. There will be a comprehensive examination in Economic 470 at the end of the Fourth Year in which at least a second class standing will be required for Honours.

NOTE: In the above requirements wherever the students are asked to choose one course in a prescribed group of courses, the second or the third course in the group may be taken for additional units in the programme concerned. However, if both Economics 100 and Economics 101 are offered concurrently, the student will not be permitted to register in these two courses at the same time.

POLITICAL SCIENCE

General — A concentration in Political Science under the General programme requires the successful completion of any three courses numbered 300 or above.

Political Science 200 is also required, and should be completed before registration in Third and Fourth Year courses. Permission to take it and one senior course concurrently may be granted, however.

Major — The Major programme in Political Science requires the completion of Political Science 200 and 300 (or 400). In addition, four other courses are to be chosen from any three of the Groups I-V. Political Science 200 is generally considered to be a prerequisite for courses in the 300 and 400 series, although in some cases the Department may modify this requirement.

Honours — The Honours programme in Political Science is open to Third Year students who have maintained high standards in their general university work, and have received a grade of B or higher in Political Science 200, or have the consent of the Department. An overall B average in the Third Year is required to continue Honours in the Fourth Year.

Third and Fourth Year Honours students are required to attend and participate in the Departmental Seminar. Fourth Year Honours students are required to complete successfully the Departmental programme of directed study and research (Political Science 490).

During the Third and Fourth Years, Honours students must take at least 21 units in Political Science, twelve of which must be Political Science 300 or 400, 307, 430, and 490.

COURSES OFFERED

ECONOMICS

Economics 200 is a prerequisite for all Third Year courses, but it may be taken concurrently with Economics 321 or Economics 340 with the permission of the Department. Economics 300 is a prerequisite for all courses numbered 400 and above. Permission to take Economics 300 concurrently with a course numbered 400 and above may be granted by the Department under exceptional circumstances.

100. (3) Introduction to Economics

Basic economic concepts with reference to the main features of the Canadian economy and Canada's place in the world economy. Special attention will be given

to current trends in the Canadian gross national product, employment, labour force, manufacturing, agriculture, money supply, prices and foreign trade.

Texts: To be announced.

Dr. Bertram and Dr. Pal. (3-0; 3-0)

NOTE: Students with Economics 200 standing will not be permitted in this course.

101. (3) Economic History

A survey of the evolution of economic institutions with special emphasis on the economic development of Western Europe, North American industrial developments, and some recent changes in the world economy. (3-0; 3-0)

NOTE: Not offered in 1966-67.

200. (3) Principles of Economics

The framework of production and distribution of wealth; demand and the laws of demand; determinants of prices and costs; national income and employment; international trade and foreign exchange; related topics.

Text: To be announced.

Staff. (3-0; 3-0)

Prerequisite: First Year standing.

300. (3) Microeconomics

Theories of demand and production; pricing of factors of production general equilibrium theory; welfare economics; some applications of price theory.

Text: To be announced.

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

305. (3) Money and Economic Activity

The influence of money on economic activity in closed and open economies; functions of financial institutions; problems of instability; monetary policy; international payments and liquidity.

Text: To be announced.

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

310. (3) 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)

315. (3) Labour Economics and Institutions

Application of economic theory to principal issues in labour relations; the development and functioning of the labour market; labour problems in industrial organizations; a brief history of trade unions; co-operative societies; role of government in labour relations.

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

320. (3) Comparative Economic Development

Selected topics in economic history examining the experience of economic development in advanced and developing countries.

NOTE: Offered in 1967-68 and alternate years thereafter. (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.

Text: To be announced.

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

NOTE: This course may be taken concurrently with Economics 200 in the Second Year with the permission of the Department.

325. (3) **Public Finance and Fiscal Policy**

Theory of public finance; Canadian public finances at the federal, provincial and municipal levels; fluctuations in income and employment; role of fiscal policy in maintaining economic growth and stability.

NOTE: Not offered in 1966-67. (3-0; 3-0)

340. (3) **Quantitative Economic Analysis**

Sources, presentation and measurement of economic data; decision theory; regression and correlation; index numbers; time series analysis; related topics.

Text: To be announced.

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

Prerequisite: Mathematics 120 or 121.

NOTE: This course may be taken concurrently with Economics 200 in the Second Year with the permission of the Department.

400. (3) **Macroeconomic Theory**

Theories of income and employment with special reference to the classical and the Keynesian models; the dynamics of the aggregate supply and demand; theory of inflation; economic growth.

Text: To be announced.

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

401. (3) **History of Economic Thought**

The development of economic analysis with special emphasis on the last two centuries.

Text: To be announced.

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

405. (3) **International Economics**

Theory of international trade; comparative costs and general equilibrium theory; balance of payments; international stability; trade policy. International aspects of economic development of under-developed countries.

Text: To be announced.

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

410. (3) **Principles and Problems of Economic Policy**

Consideration of agricultural policy, monetary policy, fiscal policy, commercial policy, anti-monopoly policy, labour policy, social security and economic planning. An essay will be assigned during the session on a topic dealing with an aspect of government economic policy in Canada. (3-0; 3-0)

NOTE: Not offered in 1966-67.

415. (3) **Industrial Relations**

The development and functioning of collective bargaining institutions and techniques in modern society with attention to comparative industrial relations. (3-0; 3-0)

NOTE: Not offered in 1966-67.

420. (3) **Theory of Economic Development**

Theories of economic growth; role of the non-economic factors in economic development; planning and financing economic development; some lessons of experience in growth and change.

Text: To be announced.

Dr. Pal and Dr. Bertram. (3-0; 3-0)

440. (3) **Mathematical Economics**

The formulation of economic theory in mathematical language.

Text: To be announced.

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

Prerequisites: Mathematics 220 or 221; Economics 340.

Recommended: Mathematics 222 and 330 or 331.

470. (3) **Honours Seminar**

NOTE: For Honours students only.
Staff.

499. (3) **Directed Studies**

An elective course for selected Honours students which may, with the permission of the Department, be substituted for another elective course numbered above 401.

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)

POLITICAL SCIENCE

200. (3) **Introduction to Political Science**

A general introduction to the study of politics. The course is designed to acquaint the student with the nature of the political process; to generate an awareness of the world of politics, its problems, and its variety; and to introduce the student to Political Science as a discipline.

By studying a series of actual political problems, the student is expected to develop a facility for thinking about political problems and in employing the basic techniques of analysis to them. Open to First Year students with the permission of the Department.

Dr. Tarlton.

(3-0; 3-0)

GROUP I - POLITICAL THEORY

300. (3) **Studies in Classical Political Theory**

Analysis and interpretation of the major writings of western Political Theory from the Greeks to the Modern period.

Dr. Tarlton.

(3-0; 3-0)

307. (3) **Scope and Method in Political Science**

Theories and techniques of modern social and political research. Attention will be devoted to the development of scientific method and the contributions from other Social Sciences to the study of politics. Not recommended as a general elective.

400. (3) **Contemporary Theories of Politics**

Description and analysis of the major systems of political doctrine in the twentieth century and assessment of recent developments in Philosophy bearing on the study of politics.

Dr. Tarlton.

(3-0; 3-0)

GROUP II - COMPARATIVE GOVERNMENT

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

Studies in the development of British and American government and politics. Comparative analysis of the Parliamentary and Presidential systems federal and unitary structures, and related problems.

Dr. Efrat.

(3-0; 3-0)

311. (3) **Western Europe and the Soviet Union**

Comparative analysis of the governmental forms and political processes in major countries of western Europe and in the Soviet Union.

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

410. (3) **The Government of Canada**

Analysis of the structure of government and the main features of political life in Canada. Attention will be given to the development of institutions and to the interaction of social, economic, and political factors.

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

411. (3) **Governments of Asia, Africa and Latin America**

Comparative study of the governments and the political cultures of selected countries from the three main areas of the non-Western world, including the politics and policies of national development. It is strongly recommended that students should only register for this course if they have previously taken Political Science 311 or 310.

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

GROUP III - PUBLIC LAW

320. (3) **Constitutional Law**

An introduction to the basic problems of Canadian constitutional law; federalism; constitutional amendment; distribution of authority; judicial review; the protection of civil liberties; and related problems.

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

420. (3) **Administrative Law**

Study of the relation between law and the administrative process; procedures and powers of administrative tribunals; and judicial and legislative control of administrative action. Not offered in 1966-67.

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

425. (3) **Law and Public Policy**

Studies in the theory of law; the development of legal concepts; the role of law in the field of public policy; social, political, philosophical and cultural factors in the development of legal thought.

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

GROUP IV - POLITICAL BEHAVIOUR

430. (3) **Political Parties and Political Behaviour**

Analysis of the nature of party politics, the sources of electoral behaviour, decision-making, the role of interest groups in the political process and similar problems. Not recommended as a general elective. (3-0; 3-0)

431. (3) **Public Opinion and Propaganda**

Studies in the process of formation, techniques of control, and methods of measurement of public attitudes in the political arena. (3-0; 3-0)

GROUP V - INTERNATIONAL RELATIONS

340. (3) **International Studies**

Studies in the theory and practice of the relations among modern nation states.

(3-0; 3-0)

341. (3) **International Law and Organization**

The nature, development, and functioning of the institutions and legal concepts of international co-operation in the modern period. (3-0; 3-0)

445. (3) **Foreign Policy**

Problems in the formulation and execution of foreign policy in the modern nation state. Special attention will be devoted to an analysis of Canadian foreign relations.
(3-0; 3-0)

GROUP VI - PUBLIC ADMINISTRATION

350. (3) **Principles of Public Administration**

Introduction to the study of bureaucracy; theories of organization; administrative decision-making; problems of management; administrative responsibility and control.
Mr. Swainson. (3-0; 3-0)

454. (3) **Local and Regional Government**

The problems and responsibilities of municipal, provincial, state and area governments; governmental structure, intergovernmental relations, and functions of local and regional governments.
Mr. Swainson. (3-0; 3-0)

490. (3) **Fourth Year Honours**

Individual directed reading and research.

DEPARTMENT OF ENGLISH

- Roger J. Bishop, B.A. (*Brit. Col.*), B.L.S., M.A. (*Tor.*), Professor and Head of the Department.
- John D. Peter, M.A. (*Cantab.*), B.A., LL.B., D. Litt. (*South Africa*), Professor. (Leave of absence 1966-67).
- Burton O. Kurth, B.A. (*Brit. Col.*), Ph.D. (*Calif.*), Associate Professor. (Leave of absence 1966-67).
- Chester L. Lambertson, M.A. (*Alta.*), Ph.D. (*Harvard*), Associate Professor.
- Robert G. Lawrence, M.A. (*New Brunswick*), Ph.D. (*Wisconsin*), Associate Professor. (Leave of absence 1966-67).
- G. Grant McOrmond, C.D., M.A. (*Sask.*), Associate Professor.
- Miss Ann Saddlemyer, B.A. (*Sask.*), M.A. (*Queen's*), Ph.D. (*London*), Associate Professor.
- Robin Skelton, M.A. (*Leeds*), Associate Professor.
- Norman W. Alford, B.A. (*London*), Ph.D. (*Texas*), Assistant Professor.
- William Benzie, M.A., M.Ed. (*Aberdeen*), Assistant Professor and Director of Freshman English.
- Miss Joan Coldwell, M.A. (*London*), Assistant Professor.
- Melvyn D. Faber, B.A. (*Chicago*), M.A., Ph.D. (*U.C.L.A.*), Assistant Professor.
- Richard F. Hampsten, M.A. (*West. Res.*), Ph.D. (*Wash.*), Assistant Professor.
- Carl R. D. Hare, M.A. (*Alta.*), DIP. R.A.D.A., Assistant Professor.
- John G. Hayman, M.A. (*Oxon.*), M.A. (*Cornell*), Ph.D. (*Northwestern*), Assistant Professor. (Leave of absence 1966-67).
- Anthony W. Jenkins, M.A. (*Cantab.*), Assistant Professor.
- Gerald Auchinachie, B.A. (*Brit. Col.*), M.A. (*Tor.*), Instructor.
- David J. Barron, M.A. (*Aberdeen*), Instructor.
- Dennis E. Brown, M.A. (*London*), Instructor.
- Andrew P. I. Carpenter, B.A. (*Oxon.*), Instructor.
- George H. Forbes, B.A. (*Brit. Col.*), Instructor.
- William J. Goede, B.A. (*Wis.*), Instructor.
- Bryan N. S. Gooch, M.A. (*Brit. Col.*), A.R.C.T. (*Tor.*), F.T.C.L. (*London*), Instructor.
- Richard I. Gravid, B.A. (*Wales*), Instructor.
- John H. Hanley, M.A. (*Cantab.*), M.A. (*McMaster*), Instructor.
- Philip E. Heron, M.A. (*Calif.*), Instructor.
- Harry J. C. Hill, M.A. (*Aberdeen*), Instructor. (Leave of absence 1966-67)
- Miss Jean E. Kennard, B.A. (*London*), Instructor. (Leave of absence 1966-67).
- Samuel L. Macey, B.A. (*Brit. Col.*), Instructor.
- Alan Mackenzie, M.A. (*Aberdeen*), Instructor. (Leave of absence 1966-67).
- Mrs. Marjorie R. Menhenett, B.A. (*Wellesley*), M.A. (*Calif.*), Instructor.
- Leighton G. Steele, M.A. (*Calif.*), Instructor.
- Reginald C. Terry, M.A. (*Bristol*), Instructor.
- Michael J. Warren, M.A. (*Oxon.*), M.A. (*Dalhousie*), Instructor. (Leave of absence 1966-67).
- Gordon A. J. Watt, M.A. (*Aberdeen*), Instructor.
- Trevor L. Williams, B.A. (*Manchester*), Instructor.
- Edward R. Zietlow, M.A. (*Boston*), Instructor.
- Mrs. Margaret N. Cutt, M.A. (*Alta.*), Lecturer.
- Mrs. Velma Gooch, M.A. (*Alta.*), Lecturer.
- Mrs. Sheila M. Hogg, B.A. (*Univ. of Victoria*), Lecturer.
- Mrs. Eugenie L. Myles, M.A. (*Alta.*), Lecturer.
- Joseph S. Schwartz, A.B., M.A. (*Calif.*), Lecturer.

GENERAL, MAJOR AND HONOURS PROGRAMMES

General — Students wishing to take English as one of the fields of concentration in their general programme should take in their First Year: English 100 (Literature and Composition); Second Year: English 200; Third and Fourth Years: a total of nine units in English courses numbered 400 and above.

Major — Students wishing to Major in English should take in their First Year: English 100; Second Year: English 200; Third and Fourth Years: total of fifteen units in English courses numbered 400 and above.

Honours — The Honours Programme allows students of proven ability to study English Language and Literature more comprehensively than is possible in the General or Major programmes. Courses range more widely over the whole field of English studies, and the approach within the special Honours courses is more intensive. 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 or Major course. Students who take a special interest in Language or Literature are strongly advised to enrol in the Honours rather than in the General or Major programme.

Prerequisites for admission to Third Year Honours 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 will be given for the graduating essay). Students are also required to select 15 units from the general course offerings of 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 the First Year are required to take English 100 (Literature and Composition). This course or its equivalent is prerequisite to all other English courses.

English 200 or English 201 is prerequisite for all English courses above 300.

English 201 may be substituted for English 200 by all students who do not wish to major or honour in English, or who do not wish to choose English as one of their fields of concentration in the General Programme. It may be taken for additional credit by students who must enrol in English 200.

Students who wish to major or honour in English, or who choose English as one of their fields of concentration in the General Programme may take Theatre or Linguistic courses as part of their English programme with the consent of the Head of the Department.

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

COURSES OFFERED

FIRST YEAR

100. (3) Literature and Composition

A study of literature and of the principles of composition. Themes and exercises are required.

Texts: *Modern Poetry*, ed. Maynard Mack et al., 2nd ed.; Shaw, *St. Joan*; Shakespeare, *Othello*; *31 Stories*, eds. M. R. Booth and C. S. Burhans; Sheridan, *School for Scandal* (in *Four Great Comedies of the Restoration and Eighteenth Century*); Huxley, *Brave New World*; Steinbeck, *Grapes of Wrath*; Becket, *Waiting for Godot*; Birk and Birk, *Understanding and Using English*.

Approved editions of the above texts will be available in the University Book Store. Members of the Department.

(4-0; 4-0)

SECOND YEAR

200. (3) A survey of British Literature from the Elizabethan to the Romantic period. Essays will be required.

This course is prerequisite for all students who wish to major or honour in English, or who choose English as one of their fields of concentration in the General Programme.

Texts: *The Norton Anthology of English Literature* (2 vols.); Swift, *Gulliver's Travels*; Shakespeare, *Hamlet*; Austen, *Pride and Prejudice*; Fielding, *Joseph Andrews*.

Members of the Department. (3-0; 3-0)

201. (3) Studies in Literature giving insight into the ideas and attitudes of the modern world. The forms of drama and narrative will be emphasized. Essays will be required.

Texts. To be announced.

Members of the Department. (3-0; 3-0)

202. (3) **Writing**

Practice in imaginative writing, with particular attention to the short story, the novel, the one-act play, and to contemporary verse forms. Candidates must submit for judgment an original manuscript in one of the forms listed above.

Texts: To be announced.

Mr. Schwartz and Mr. Zietlow. (3-0; 3-0)

245. (3) **Practical Criticism**

A seminar 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. A 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)

390. (Linguistics 390) (3) **The Growth and Structure of Modern English**

A descriptive approach to the structure of Modern English, designed especially for those students who are interested in the application of modern linguistic science to an understanding of the language. So that Modern English may be seen in its proper perspective, some attention will be given to the history of the language, including the development of Canadian English.

Texts: See Linguistics 390.

Dr. Scargill. (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. Principles and practice of rhetoric are also covered. Competent use of the English language is prerequisite.

Texts: A good dictionary (*Webster's Collegiate*, *The Concise Oxford*); *Roget's Thesaurus*; Read, *English Prose Style*. (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.
 Mr. Zietlow. (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) **Skelton to Donne**
 Non-dramatic literature with emphasis upon the forms, conventions, and ideas of the Elizabethan age.
 Texts: To be announced. (3-0; 3-0)
409. (3) **Special Studies in Writing**
 Prerequisite: Consent of the instructor. (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.
 Texts: Brooke and Paradise, *English Drama, 1580-1642; Medieval and Tudor Drama*, John Gassner, ed., Bantam edition.
 Dr. Hampsten. (3-0; 3-0)
413. (3) **Shakespeare Survey**
 Lectures on the development of Shakespeare's art in the histories, comedies and tragedies.
 Text: To be announced.
 Miss Coldwell. (3-0; 3-0)
424. (3) **Milton and some related figures**
 The emphasis will be on Milton's poetry.
 Text: *Milton, Complete Poetry and Major Prose*, ed. N. Y. Hughes.
 Mr. Forbes. (3-0; 3-0)
425. (3) **Literature of the Restoration and the Augustan Periods**
 Particular emphasis will be placed on Restoration Comedy, Dryden, Pope, Swift and Dr. Johnson.
 Texts: To be announced.
 Mr. Benzie. (3-0; 3-0)
426. (3) **Literature of the Mid and Late 18th Century**
 This course will include Blake and the pre-Romantics.
 (Not offered 1966-67). (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, *The Return of the Native*; Butler, *The Way of All Flesh*; Bronte, *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)

428. (3) **American Literature to 1890**

A survey of the chief trends of American Literature from the Colonial period to the late 19th Century.

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

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

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

430. (3) **The Romantic Period (1790-1830)**

Chiefly Wordsworth, Coleridge, Byron, Shelley and Keats. Some attention is paid to the prose writers of the period.

Texts: *Byron; Coleridge; Keats; Shelley; Wordsworth.*

Approved editions of texts will be available in the University Book Store.

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

431. (3) **Victorian Poetry (1830-1890)**

Chiefly Tennyson, Browning and Arnold. Some time is spent on Fitzgerald, D. G. Rossetti, Swinburne, E. B. Browning, Clough, and Morris.

Text: *Victorian and Later English Poets*, Stephens, Beck and Snow, ed.

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

432. (3) **Victorian Prose**

A survey of currents of thought in 19th Century Literature.

Texts: To be announced. (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*; Houseman, *Collected Poems*; Shaw, *Major Barbara* and *Three Plays for Puritans*; Synge, *Four Plays on the Aran Islands*; Wells, *Tono-Bungay*; Wilde, *Plays, Prose Writings and Poems*; Yeats, *Collected Poems*; Gaunt, *The Aesthetic Adventure*; Galsworthy, *The Man of Property*.

(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. (3-0; 3-0)

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

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

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

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

442. (3) **Commonwealth Literature**

(Not offered 1966-67). (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: Anderson and Williams, *Old English Handbook*.

Dr. Lambertson.

(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.

Mr. Jenkins.

(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.

Miss Saddlemyer.

(3-0; 3-0)

THEATRE

Students interested in a General or Major Programme in Theatre should consult the Department of English.

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

Texts: To be announced.

Mr. Hedley.

(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)

356. (2) Fundamentals of Voice Production and Speech

Of use to teachers, theatre majors and other students who wish to improve their speech. Students must also take *Linguistics* 320 (1) which will fulfill the requirements in phonetics necessary for the successful completion of Theatre 356.

Texts: To be announced.

Mr. Hare.

(1-2; 1-2)

FINE ARTS

C. Anthony Emery, M.A. (*Oxon.*), Associate Professor.
Jack D. Flain, A.B. (*Rutgers*), A.M. (*Columbia*), Instructor.
Toni Onley, Dip. (*Douglas School of Art*), Lecturer.

COURSES OFFERED

ART HISTORY

100. (3) **Survey of World Art**

An introductory course offering an outline of the main artistic achievements of mankind in the fields of painting, sculpture and architecture. (3-0; 3-0)

120. (3) **Art Appreciation**

A theoretical course designed to provide an introduction to the understanding and appreciation of painting, sculpture and architecture, and to prepare the student for qualified judgment of traditional and contemporary art forms.

This course is open to all students, except those majoring in Art History and candidates for the B.F.A. or the Diploma.

200. (3) **Painting from Giotto to Cezanne**

(3-0; 3-0)

300. (3) **Modern Art, 1800-1960**

An examination of the developments in painting and sculpture of the last century and a half. (Compulsory for painting Majors). (3-0; 3-0)

310. (3) **The Art of the Renaissance**

A history of painting, sculpture and architecture in Europe from 1300 to 1550. (3-0; 3-0)

EDUCATION FINE ARTS

See page 133 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 the Department.

Charles N. Forward, M.A. (*Brit. Col.*), Ph.D. (*Clark*), Associate Professor.

Charles H. Howatson, M.A. (*Brit. Col.*), Associate Professor.

W. R. Derrick Sewell, B.Sc. (*London*), M.A., Ph.D. (*Wash.*), Associate Professor.

Elmer A. Keen, M.A. (*Geo. Peabody Coll.*), Ph.D. (*Wash.*), Assistant Professor.

D. Richard Lyeon, B.S. (*Idaho*), A.M. (*George Washington*), Ph.D. (*Wash.*), Assistant Professor.

W. John Maunder, M.Sc. (*N.Z.*), Ph.D. (*Otago*), Assistant Professor.

Erie D. Ross, M.A. (*New Brunswick*), Ph.D. (*Edinburgh*), Assistant Professor.

Michael C. R. Edgell, B.A. (*Birmingham*), Dip. Conservation (*U.C. London*), Instructor.

Geography may be offered for the B.A. or B.Sc. degrees in the Honours, Major, or General programmes, and for the M.A. degree in accordance with University regulations.

Students expecting to enter either the Honours or Major programmes are advised to take Mathematics 120 or 121; all students are advised to select French, Russian or German in fulfillment of general University requirements.

Specific information concerning particular combinations of courses leading to specific objectives in professional Geography is available from the Department.

GENERAL, MAJOR AND HONOURS PROGRAMMES

B.A. Programme

General—In the first two years courses must include Geography 101 and one of Geography 201, 203 or 204. In the third and fourth years three courses numbered 300 or above must be selected one of which must be a regional course (marked R).

Major—First and Second Years: Geography 101, 201, and 203. Third and Fourth Years: Geography 301 and at least four other courses numbered 300 or above. At least one regional course (marked R) must be taken.

Honours—First and Second Years as for Majors: Third and Fourth Years: Geography 301, and at least six other courses in Geography or appropriate related fields, the choice of which must be made in consultation with members of the Department of Geography. A graduating essay (Geography 449) is also required; and, at the end of the Fourth Year, a candidate shall submit to a general examination in his main field.

B.Sc. Programme

General—In the first two years courses must include Geography 101 and 203. In the third and fourth years three courses numbered 300 or above must be selected from 302, 401, 402, 412, 441.

Major—First Year: Geography 101 and one course in science normally chosen from courses offered by the Departments of Biology, Chemistry and Physics. Second Year: Courses must include Geography 201, 203, Mathematics 204 or 220 or 221, and two other science courses not yet taken. Third and Fourth Years: Fifteen units of Geography must be taken, to include Geography 301, 302, 401, and 412.

Honours—First and Second Years: as for Major, but prospective candidates are advised to consult the Department at the end of the First Year. Third and Fourth Years: at least twenty-one units of Geography must be chosen in consultation with the Department from Geography 301, 302, 401, 402, 410, 441, 445, or from other courses in geography or related fields which the Department considers appropriate to an individual course of study. A graduating essay (Geography 449) is also required;

and, at the end of the Fourth Year, a candidate shall submit to a general examination in his major field.

For each year, in all undergraduate programmes, 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. A cartography fee will be charged students enrolled in Geography 301.

COURSES OFFERED

Geography 101 is prerequisite to all other geography courses except Geography 303. This prerequisite may be waived by the Department in certain 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. (2-2; 2-2)

201. (3) **Economic Geography**

An analytical survey of the areal distribution of economic activity, regional economies, world patterns of production and exchange, and sources and uses of energy. A study of demographic and cultural phenomena as they relate to economic activity is included.

Dr. Sewell. (2-2; 2-2)

203. (3) **Physical Geography**

A study of the elements of climate, the origin and distribution of landforms, soils and vegetation, and the inter-relationships of these four major physical elements.

Mr. Edgell. (2-2; 2-2)

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

A regional approach to the study of Canada and the United States which will include consideration of landforms, climate, soils, vegetation, national resources, population characteristics and the distribution of economy activities.

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

301. (3) **Cartography and Air Photo Interpretation**

A course intended to develop skill and judgment in the design and execution of maps and other graphics frequently used by geographers; and introduction to the uses of specialized equipment and materials; and an analysis and consideration of the uses of aerial photographs and maps as sources of data. Field trips may include visits to government mapping agencies and use of aerial photographs in the field.

Dr. Lycan. (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 (Physical Geography) or consent of the Department.

Dr. Maunder. (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.

Dr. Ross. (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 1966-67). (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 given to Canada. Geographical settings will be reconstructed for periods of particular historical significance. 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 1966-67). (3-0; 3-0)

309. (3) **East Asia**

A geographic survey of East Asia which will include China, Japan, Korea and Mongolia. Emphasis will be placed on the basic cultural and physical factors and underlying contemporary problems faced by these countries and the measure of success they have achieved in building viable national states.

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

310. (3) **Industrial Geography**

A systematic study in geography dealing with factors affecting industrial location and the effects of regional industrial structures on economic development. Prerequisite: Geography 201 or Geography 204.

Dr. Lycan. (2-1; 2-1)

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 (Physical Geography) or Biology 320. (2-2; 2-2)

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

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

Dr. 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. Consent of the instructor. (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 1966-67). (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. (Not offered 1966-67). (3-0; 3-0)

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

A study of the resources and regional development in the four western provinces with emphasis on the more developed parts. Particular attention will be given to problems in the forest industry of British Columbia; the use of water for power and irrigation in Western Canada; the competition for use of land by forestry, grazing and cultivation; and diversification of agriculture on the Prairies. Comparisons will be made between British Columbia and the Prairie provinces with respect to: the historical development of settlement; the variety and availability of mineral resources; manufacturing and urban development.

Mr. Howatson.

(3-0; 3-0)

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 1966-67). (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.

Prerequisite: Geography 203 (Physical Geography). (Not offered 1966-67).

(2-2; 2-2)

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

Prerequisite: one of Geography 203, 302, 401 or 412. (Not offered 1966-67).

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

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

Section 1. *Urban Problems.*

Prerequisite: Consent of the instructor.

Dr. Forward.

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

Section 2. *Problems in the Geography of North Pacific Fisheries*

Problems of exploration and management of North Pacific Fishing resources within the framework of the fishing economies of the four major nations (Canada, U.S.A., U.S.S.R. and Japan) concerned.

Prerequisite: Consent of the instructor.

Dr. Keen.

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

Section 3. *Problems of Resource Management and Conservation.*

Prerequisite: Consent of the instructor.

Dr. Sewell.

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

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

Section 1. *Problems in Historical Geography.*

Prerequisite: Consent of the instructor.

Dr. Ross.

(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; and developments.

Dr. Farrell.

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

449. (3) **Honours Essay**

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)

GRADUATE COURSES

Students should consult the Department concerning the courses offered in any particular year.

500. (1 ½) **Graduate Colloquium in Geography**

501. (3) **Graduate Seminar in Physical Geography**

502. (3) **Graduate Seminar in Human Geography**

503. (3) **Graduate Seminar in Regional Geography**

504. (3) **Graduate Seminar in the History and Nature of Geography**

505. (1-6) **Directed Studies in Geography**

506. (1 ½) **Field Course in Geography**

599. (credit to be determined) **M.A. Thesis**

DEPARTMENT OF HISTORY

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

Sydney W. Jackman, Ph.D. (*Harvard*), F.R. Hist. S., Professor.

Reginald H. Roy, C.D., M.A. (*Brit. Col.*), Ph.D. (*Wash.*), Associate Professor.

James E. Hendrickson, B.A. (*Sask.*), B.Ed. (*Alta.*), M.A., Ph.D. (*Oregon*), Assistant Professor.

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

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

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

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

Patricia Roy, B.A. (*Brit. Col.*), M.A. (*Tor.*), Instructor.

Ernest A. Forbes, B.A. B.Ed. (Assistant) Lect.

GENERAL, MAJOR AND HONOURS PROGRAMMES

General — In the Third and Fourth Years a minimum of 9 units (three courses) taken in courses numbered 300 or above. These courses are to be selected from *two* of the following areas of interest: American, British, Canadian, Colonial, European. Prerequisites for these areas of interest are as follows: *American*: History 212; *British*: History 201; *Canadian*: History 102; *Colonial*: History 200 and/or 201; *European*: History 101 or History 200.

Major — In the Third and Fourth Years a minimum of 15 units (five courses) in courses accepted for credit in History which are numbered 300 or above. Of the remaining 15 units, 9 units should be selected in consultation with members of the Department. At least 4 of the 5 courses in History in the Third and Fourth Years should be selected from any *two* of the following areas of interest: American, British, Canadian, Colonial, European. Prerequisites for these areas of interest are as follows: *American*: History 212; *British*: History 201; *Canadian*: History 102; *Colonial*: History 200 and/or 201; *European*: History 101 or History 200.

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 or English 201, French 240 or 280 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 400 (if already taken an additional History course is required), 333, 433, 449; three 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.

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; Linguistics 100, 200; 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. (4) Students undertaking the Honours, Major or General Programme in the Department of History may count history courses in other departments as part of the requirement. Students must receive permission to do so from a member of the Department of History.

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.

- Text: Chambers, *This Age of Conflict*, Third ed.
Staff. (3-0; 3-0)
102. (3) **History of Canada**
An introductory general course. Essays will be assigned throughout the Session.
Texts: Morton, *The Kingdom of Canada*; 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.
Text: Palmer, *History of the Modern World*, Second Edition.
Mr. Loft. (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.
Texts: Feiling, *History of England*; Selected paperback books.
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.
Text: To be announced.
Dr. 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.
Texts: Kerr, *A Historical Atlas of Canada*, 1961; Reid, McNaught and Crowe, *A Source Book of Canadian History*.
Dr. 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. May be taken by Second Year students with special permission.
Text: Thorndike, *The History of Medieval Europe*, Third Edition.
Dr. Shelton. (3-0; 3-0)
305. (3) **Latin America: The Colonial Period**
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: To be announced.
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.
Text: To be announced.
Dr. Ogelsby.
(Not offered 1966-67). (3-0; 3-0)
312. (3) **The United States in the Nineteenth Century**
Intensive study of problems and interpretation of the history of the United States from the Revolution to the Spanish-American War. Extensive reading is required.
Dr. 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.

Text: To be announced.

Miss Girard.

(Not offered 1966-67).

(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.

Text: To be announced.

Dr. Shelton.

(Not offered 1966-67).

(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: To be announced.

Dr. Jackman.

(Not offered 1966-67).

(3-0; 3-0)

326. (3) **History of Canada, 1763-1867**

The British colonies in North America from the Peace of Paris to Confederation. One essay will be assigned during the Session.

Texts: Kerr, *A Historical Atlas of Canada, 1961*; Dunham, *Political Unrest in Upper Canada, 1815-1836*; Craig, *Lord Durham's Report*; Waite, *The Confederation Debates*; Glazebrook, *A History of Transportation*.

Dr. Roy.

(Not offered 1966-67).

(3-0; 3-0)

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

The Philosophy of History, methodology, bibliography.

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

Miss Girard.

(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 Head 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.

Dr. Hendrickson.

(3-0; 3-0)

406. (3) **History of France, 1870-1945**

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.
Text: To be announced.
Dr. Hendrickson.
(Not offered 1966-67). (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: To be announced.
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.
Dr. Roy. (3-0; 3-0)
428. (3) **Intellectual History of the United States**
A study of the evolution of American culture. (Not offered 1965-66).
Text: To be announced. (3-0; 3-0)
433. (3) **Fourth Year Honours Seminar**
Historiography.
Text: To be announced.
Dr. Jackman. (3-0; 3-0)
449. (6) **Graduating Essay in Honours**
Staff. (3-0; 3-0)

GRADUATE COURSES

Students should consult the Department concerning the courses offered in any particular year. For the session 1966-67, none of these courses will be offered, but prospective students should read the general regulations for the School of Graduate Studies, and, in particular the section on the Department of History.

501. (3) **Topics in British History**
503. (3) **Western Canadian History**
505. (3) **European Intellectual History**
599. (credit to be determined) **M.A. Thesis**

DEPARTMENT OF LINGUISTICS

M. H. Scargill, B.A., Ph.D. (*Leeds*), Professor and Head of the Department.

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

P. M. H. Edwards, F.T.C.L., A.R.C.M., L.R.A.M. (*London*), B.A. (*Brit. Col.*), M.A. (*Columbia*), M.A. (*Harvard*), Ph.D. (*Univ. of Penn.*), Associate Professor.

Geoffrey Noel O'Grady, B.A. (*Univ. of Sydney*), Ph.D. (*Indiana*), Associate Professor.

NOTE: Unless otherwise stated, the prerequisite for any course in Linguistics is some knowledge of a language other than English, or permission of the Department.

INDIVIDUAL COURSES

Students who wish to take just one or two courses in Linguistics, rather than a full programme, may be interested in the following courses. Linguistics 100 and 210 are courses of general interest at the first and second year levels. Linguistics 360 is a senior Linguistics course of general interest, although it is of special value to students in Classical and Modern Languages. Linguistics 390 is intended for students who have a particular interest in the English language. Linguistics 400 should be of interest to certain students in Anthropology who wish to have some training in the techniques of analysing and recording languages they may meet in the field.

GENERAL AND MAJOR PROGRAMMES

General — Students who wish to proceed to the B.A. degree under the regulations for the General Programme and who wish to study Linguistics as one of their fields of concentration are urged to take one of the following as their second field of concentration: Anthropology, Classical or Modern Languages, English, Mathematics, Psychology.

Students who begin the study of Linguistics as one of their fields in the General Programme in their first or second years should take Linguistics 100 or 210 or both, and then at least three senior courses in Linguistics in their third and fourth years.

Students who begin the study of Linguistics as one of their fields in the General Programme in their third or fourth years should take Linguistics 360 and at least two other senior courses in Linguistics.

Major — Students who wish to proceed to the B.A. degree with a Major in Linguistics are urged to offer supporting courses in one of Anthropology, Classical or Modern Languages, English, Mathematics, Psychology.

Students who begin the study of Linguistics as a Major in their first or second years should take Linguistics 100 or 210 or both, and then five senior courses in Linguistics in their third and fourth years.

Students who begin the study of Linguistics as a Major in their third or fourth years should take Linguistics 360 and four other senior courses in Linguistics.

COURSES OFFERED

100. (3) Introduction to Linguistics

The nature and origin of language; the major language families of the world; dialects; causes of change in sounds, grammar, meaning; elementary historical and comparative linguistics; some study of little-known language for purposes of illustration of grammatical and sound systems.

Text: Robins, *General Linguistics*; Anderson and Stageberg, *Introductory Readings on Language*.

J.-P. Vinay.

(2-0-1; 2-0-1)

210. (3) **Studies in Linguistics**

Language, thought, and culture. The psychology of language; language learning. The pathology of language: disorders in speech such as aphasia and stuttering. The language of machines. Dialect studies. Semantics.

Texts: Carroll, *Language and Thought*; Bloomfield, *Language History*; Firth, *The Tongues of Men and Speech*; Salomon, *Semantics and Common Sense*.

Dr. O'Grady and members of the Departments of Psychology and Mathematics. (3-0; 3-0)

320. (1) **Seminar in Linguistics**

A special programme of study to be arranged to meet the needs of individual students. (1-0; 1-0)

350. (2) **Seminar in Languages**

An elementary study of one or two languages to be selected by the students from the following list: Old Norse, Estonian, Finnish, Hungarian, Swahili, Japanese, Norwegian.

Members of the Department. (2-0; 2-0)

360. (3) **General Linguistics**

An introduction to Linguistics intended for students with no previous knowledge of the subject who desire a single senior course or who wish to begin the study of Linguistics in their senior years. This course will cover, at the level expected in senior courses, most of the material listed in Linguistics 100 and 210. Not open to students with Linguistics 100 or 200 or 210.

Text: Gleason: *Introduction to Descriptive Linguistics and Workbook*.

Dr. G. N. O'Grady. (3-0; 3-0)

370. (Psychology 370) (3) **Psycholinguistics**

Linguistics 370 is offered in collaboration with the Department of Psychology. A course in the psychopathology of language, covering such topics as the nature and function of language, language acquisition, and language change; the pathology of linguistic behaviour, language and cognition. Prerequisite: permission of both Departments.

Texts: To be announced.

J.-P. Vinay and O. Spreen. (3-0; 3-0)

390. (English 390) (3) **The Growth and Structure of Modern English**

A descriptive approach to the structure of Modern English, designed especially for those students who are interested in the application of modern linguistic science, particularly structural and transformational theory, to an understanding of the language. So that Modern English may be seen in its proper perspective, attention will be given to the history of the language, including the development of Canadian English.

Texts: Baugh, *History of the English Language*; Stageberg, *Introductory English Grammar*; Buchanan, *Introduction to Linguistics*.

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

400. (3) **Field Methods and Techniques in Language Analysis**

Techniques and methods of language analysis illustrated by the study of well-known and little-known languages, using native informants or recordings or both. Prerequisites: Linguistics 100 or 200 or 210 or 360 or permission of the Department.

Texts: To be announced.

Dr. O'Grady. (3-0; 3-0)

420. (3) **Historical and Comparative Linguistics**

The historical and comparative method in the study of languages, both Indo-European and non-Indo-European.

Texts: Lehmann, *Historical Linguistics and Workbook*; Pedersen, *The Discovery of Language*.

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

GRADUATE COURSES

Students should consult the Department concerning courses offered in any particular year.

501. (3) Seminar in Canadian English

Dr. Scargill.

(3-0; 3-0)

502. (3) Seminar in Descriptive Linguistics

Dr. O'Grady.

(3-0; 3-0)

503. (3) Seminar in Grammatical Theory

Members of the Department.

(3-0; 3-0)

599. Thesis. (Credit to be determined).

DEPARTMENT OF MATHEMATICS

- Stephen A. Jennings, M.A., Ph.D. (*Tor.*), Professor and Head of the Department.
Robert T. D. Wallace, M.A. (*Brit. Col.*), Professor.
Fernand E. Deloume, B.A. (*Brit. Col.*), M.A. (*Tor.*), Ph.D. (*U.S.C.*), P.Eng. (*Brit. Col.*), Associate Professor.
D. Elizabeth Kennedy, M.A. (*Brit. Col.*), Associate Professor.
O. Phoebe Noble, B.A. (*Brit. Col.*), Associate Professor.
Robert E. Odeh, M.S., Ph.D. (*Carnegie Inst. of Tech.*), Associate Professor.
Arne P. Baartz, M.A., Ph.D. (*Oregon*), Assistant Professor.
Leon Bowden, B.Sc. (*London*), B.Litt. (*Oxon.*), Assistant Professor.
Robert C. Christiansen, B.A., M.S., Ph.D. (*Iowa*), Assistant Professor.
William R. Gordon, M.A. (*Brit. Col.*), Ph.D. (*Calif.*), Assistant Professor.
Pauline van den Driessche, M.Sc. (*Imp. Coll.*), D.I.C., Ph.D. (*Univ. of Wales*), Assistant Professor.
Ian Barrodale, B.Sc. (*Univ. College of N. Wales*), M.Sc. (*Brit. Col.*), (Leave of absence, 1966-67).
Ernest J. Cockayne, M.A. (*Oxon.*), M.Sc. (*McGill*), Instructor.
Roger R. Davidson, B.Sc. (*Queen's*), M.A. (*Tor.*), Instructor.
Byron L. Ehle, A.B. (*Whitman*), M.S. (*Stanford*), (Leave of absence, 1966-67).
Zulette Gordon, B.A. (*Brit. Col.*), M.A. (*Calif.*), Instructor.
David J. Leeming, B.Sc. (*Brit. Col.*), M.A. (*Oregon*), (Leave of absence, 1966-67).
H. Paul Smith, B.A., M.Ed. (*Brit. Col.*), (Leave of absence, 1966-67).
Robert C. Allen, B.Sc. (*Brit. Col. - Vic. Coll.*), Lecturer.
Eileen Caner, B.Sc. (*London*), Lecturer.
Susan Beth Christiansen, B.A., M.S. (*Iowa*), Lecturer.
Peter A. Darling, M.A.Sc. (*Brit. Col.*), P. Eng., Lecturer.
Diane Robertson, B.A. (*Brit. Col. - Vic. Coll.*), Lecturer.
Jean Sargent, B.A. (*Brit. Col.*), Ph.D. (*Tor.*), Lecturer.

GENERAL, MAJOR AND HONOURS PROGRAMMES

Under the requirements of either the B.A. or B.Sc. degrees, students may proceed to Honours or a Major in Mathematics or may take a concentration in Mathematics in the General Course.

General — Mathematics 120 or 121 (see note 3 below), 220 or 221 (see note 4 below), 222 or 223 and 9 units in Mathematics courses numbered 300 or higher.

Major — First and Second Years: Mathematics 121 or 120 (see notes 1, 2 and 3 below); Mathematics 220 or 221 (see note 4 below) and Mathematics 222 or 223. Third and Fourth Years: Mathematics 330 or 331, 332 or 333 (see note 5 below) and at least 9 additional units of Mathematics in courses numbered 300 or higher, chosen in consultation with the department. Major students planning to proceed to graduate work in Mathematics are urged to enrol in Mathematics 333 and 335 in their Third Year. Because of the increasing importance of computing and data processing, students taking a major in Mathematics who have not taken Mathematics 206 in Second Year are advised to do so before they graduate. Students who are considering teaching Mathematics in Secondary School are urged to take Mathematics 337.

Honours — First and Second Years: Mathematics 121 (see notes 1, 2 and 3 below); Mathematics 221 (see note 4 below), and 223. Third and Fourth Years: Mathematics 331, 333, 335, 433, 435 and 6 additional units of Mathematics courses at least 3 of which must be at the 400 level. All courses must be chosen in consultation with the department. In general, students will be admitted to the Third Year of the Honours Programme only if they have clear standing and a Second Class average or higher in at least 15 units in Second Year, and have obtained First Class or High Second Class standing in each of Mathematics 221, 223.

NOTE 1: Students wishing to take Honours or a Major in Mathematics and who have taken either Mathematics 101 or 120 may be required to write a qualifying examination and 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, and such students should approach the department as early in the summer as possible.

NOTE 2: All students taking a Major or Honours in Mathematics are strongly advised to take at least one University course in Physics.

NOTE 3: First Year students who can demonstrate to the department that they have mastered the material normally covered in Mathematics 120 or 121 may be permitted to enrol in Second Year Mathematics courses.

NOTE 4: Students entering the University with First Year or Senior Matriculation standing from outside the Province of British Columbia will be refused admission to Mathematics 220 and 221 if their Mathematics course in First Year or Senior Matriculation did not include Calculus. Such students are advised to consult the department before registration is completed.

NOTE 5: Students who have obtained a B+ or higher in Mathematics 220 or 221 and 222 or 223 may, with the permission of the department, register for Mathematics 331, 333, 335.

COURSES OFFERED

FIRST YEAR

120. (3) **Fundamental Mathematics**

Analytic geometry, trigonometry, elementary differential and integral calculus. Prerequisite: Mathematics 91. (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. See Note 3 above. (4-0; 4-0)

SECOND YEAR

Students with a D grade in Mathematics 120 or 121 are advised not to register for further courses in Mathematics.

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. (Not offered 1966-67). (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. (May not be offered 1966-67). (3-2; 3-2)

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

A new course begins each term. Students who wish to register for the course beginning in the second term must do so before the end of the first week of lectures in that term. Registration must be completed through the Registrar's office. (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. See notes 1 and 4 page 106.

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. See notes 1 and 4 page 106. (3-0; 3-0)

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

Complex numbers, theory of polynomials; analytic geometry in 2 and 3 dimensions; vectors, matrices and determinants. Prerequisite: Mathematics 120 or 121. Not open to students who have credit for Mathematics 223. (3-0; 3-0)

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

Complex numbers, theory of polynomials; analytic geometry of 3 dimensions; vectors, matrices and determinants; introduction to numerical analysis. In the tutorials an opportunity will be provided for each student to write simple programmes and to run them on the 1620 computer. Prerequisite: second class standing in Mathematics 121 or the qualifying examination, and the consent of the Department. (3-0-1; 3-0-1)

THIRD AND FOURTH YEARS

Students with a D grade in Mathematics 220 or 222 are advised not to register for further courses in Mathematics.

330. (3) **Calculus II**

Further topics in: Infinite series, functions of several variables, vector calculus. 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) **Calculus II**

Further topics in: Infinite series, functions of several variables, vector calculus. 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)

332. (3) **Algebra**

Introduction to linear and abstract algebra. Primarily for General Course and Major students.

Prerequisites: Mathematics 220 and 222. (3-0; 3-0)

333. (3) **Algebra I**

Introduction to linear and abstract algebra. Primarily for Honours students. Students with a B⁺ or better in each of 220, 222 may enrol with the permission of the Department.

Prerequisites: Mathematics 221, 223 or the consent of the Department. (3-0; 3-0)

335. (3) **Real Analysis I**

Real numbers; elements of point-set topology; functions, limits, continuity; Riemann integration. Prerequisites: at least second class standing in Mathematics 221 and 223. (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)

343. (3) **Statistical Methods**

Elementary probability theory, distribution functions, sample spaces, and the formulation of statistical hypotheses. Elementary statistical limit theorems. Brief discussion of typical problems of statistical inference: maximum likelihood estimates, confidence intervals, stratified sampling, regression and correlation analysis, distribution-free methods. Primarily for the non-major who has a working knowledge of calculus, and for the major who intends to take no further work in statistics.

Prerequisites: Mathematics 220 or 221. (3-1; 3-1)

345. (3) **Differential Equations**

First and second order differential equations with applications to Physics and Chemistry. Laplace Transforms, boundary value problems, Fourier series, and partial differential equations.

Prerequisite: Mathematics 330 or 331, which may be taken concurrently. (3-0; 3-0)

349. (3) **Numerical Computation**

Introduction to the principles of digital computers. FORTRAN programming using the IBM 1620. Applications of numerical and programming techniques to the solution of elementary and advanced problems taken from various fields. Prerequisites: Mathematics 220 or 221 and 222 or 223; Mathematics 330 or 331 which may be taken concurrently. (2-2; 2-2)

433. (3) **Algebra II**

A continuation of Mathematics 333. Abstract algebra, linear algebra. Prerequisite: Mathematics 333. Primarily for Honours students. (3-0; 3-0)

435. (3) **Real Analysis II**

Metric spaces; Lebesgue integration; differentiation; introduction to linear spaces. Prerequisites: Mathematics 331, 335 or the consent of the Department. Primarily for Honours students. (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 or Mathematics 330 and the consent of the Department. (3-0; 3-0)

443. (3) **Mathematical Statistics**

Statistical analysis with emphasis on sampling theory and the testing of statistical hypotheses, applications to problems in the sciences. Prerequisite: Mathematics 330 or 331, Mathematics 333 or the consent of the Department. (3-0; 3-0)

449. (3) **Numerical Analysis**

Roots of equations, solution of systems of equations, calculation of eigenvalues, initial and boundary value problems, approximation theory. Emphasis is placed on error analysis.

Prerequisites: Mathematics 330 or 331, Mathematics 222 or 223.

470. (3) **Directed Studies in Mathematics**

Students must consult the Department before registering.

480. (3) **Seminar in Mathematics**

Students must consult the Department before registering.

481. (1-3) **Computing Science Seminar**

Primarily for fourth year major and honours students interested in this area. Students must consult the Department before registering.

DEPARTMENT OF MODERN LANGUAGES

- W. Harry Hickman, M.A. (*Brit. Col.*), Docteur de l'Université de Paris, Professor and Head of the Department.
- Jean-Paul Vinay, L. ès L. (*Paris*), D.E.S. (*Paris*), M.A. (*London*), Agrégé de l'Université de France, officier d'Académie F.R.S.C., Professor of French.
- 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, F.T.C.L., A.R.C.M., L.R.A.M. (*London*), B.A. (*Brit. Col.*), M.A. (*Columbia*), M.A. (*Harvard*), Ph.D. (*Univ. of Penn.*), Associate Professor.
- David A. Griffiths, M.A. (*Brit. Col.*), Docteur de l'Université de Paris, Associate Professor of French.
- Miss Herta M. Hartmanshenn, Ph.D. (*Marburg*), Associate Professor of German.
- 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.
- Frederick Kriegel, 2nd State Certificate (*Vienna*), Assistant Professor of German.
- Miss Slava Mary Kushnir, M.A. (*McGill*), Docteur de l'Université de Bordeaux, Assistant Professor of French.
- 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. (Leave of absence 1966-67).
- Mrs. Bérangeère B. Steel, L. ès L. (*Paris*), Assistant Professor of French.
- Lewis W. Tusken, M.A., Ph.D. (*Colorado*), Assistant Professor of German.
- Miss Elaine Wallace, B.A. (*London*), Docteur de l'Université de Poitiers, Assistant Professor of French.
- Leonard Patrick Harvey, B.A., D.Phil. (*Oxon.*), Visiting Professor of Spanish.
- Hélène Bouter, L. ès L. (*Strasbourg*), Instructor in French.
- Robin Carter, M.A. (*St. Andrews*), Instructor in Spanish.
- Zelimir Juricic, B.A. (*Brit. Col.*), Instructor in Russian.
- Jerrold L. Mordaunt, M.A. (*Utah*), Instructor in Spanish.
- Christian H. Prohom, B.A. (*Alta.*), Instructor in French.
- Walter Riedel, B.Ed., M.A. (*Alta.*), Instructor in German.
- Charles Anthony Sheehy, M.A. (*Glasgow*), Instructor in Spanish. (Leave of absence 1966-67).
- Neil V. J. Thompson, B.A. (*London*), Instructor in French.
- Jean Raoul Jules Derrien, L. ès L. (*Caen*), C.A.P.E.S. (*Paris*), Chevalier de l'Ordre des Palmes Académiques, Visiting Lecturer in French.
- Ronald R. Jeffels, C.D., B.A., B.Ed. (*Alta.*), M.A. (*Cantab.*), Lecturer in French.

GENERAL, MAJOR AND HONOURS PROGRAMMES

NOTE: All students planning to take Majors or Honours in the Department of Modern Languages must take English 200.

Students wishing to take courses in any of the modern languages at the Third and Fourth Year level are reminded that they must have the prerequisites of the First Two Years including (except in German and Russian) the course numbered 290 and must take, in the Third Year, the course numbered 302.

Students wishing to take Third and Fourth Year courses in any of the modern languages, to meet requirements for a B.A. degree on the *general, major or honours*

programme, must satisfy the Department that they have satisfactory standing in appropriate courses at the 200 level. The course numbered 302 must be taken in the Third Year (except for general course students in German).

An Honours programme in the Department of Modern Languages normally requires a total of 66 units over a four-year period.

Students specializing in a foreign language programme (including Honours), will find that they have sufficient electives to enable them to concentrate in a second field — for example, another language, Classics, English, History, Linguistics. A wise selection of courses is particularly important to those who may wish to enter graduate school, teaching, library work, government service, etc. The Department Head will be happy to assist students with their selection of courses.

FRENCH

General — First Year: French 180; Second Year: French 280 and 290; Third and Fourth Years: French 302 and six units of French courses numbered above 400.

Major — First Year: French 180; Second Year: French 280 and 290; Third and Fourth Years: French 302 and at least twelve units of French courses numbered above 400.

Honours — First Year: French 180 and one year of Latin (if Latin 92 has not been passed in high school); Second Year: French 280 and 290; Third and Fourth Years: French 302 and 320/420 and at least four other French courses numbered above 400, selected after consultation with the Head of the Department.

GERMAN

General — First Year: German 100 or 140; Second Year: German 260; Third and Fourth Years: Nine units of German courses chosen from 302 and those numbered 400 or above.

Major — First Year: German 100 or 140; Second Year: German 260 and German 290; Third and Fourth Years: German 302 and at least twelve units in German courses numbered 400 or above.

Honours — First Year: German 100 or 140; Second Year: German 260 and German 290; Third and Fourth Years: German 302, 410 and at least four other courses numbered 400 or above.

RUSSIAN

(a) General — First Year: Russian 100; Second Year: Russian 200; Third and Fourth Years: Russian 300, 302 and 400.

(b) Major — First Year: Russian 100; Second Year: Russian 200; Third and Fourth Years: Russian 302 and at least twelve units in Russian courses numbered 300 or above including Russian 300 and Russian 400.

(c) Honours — Consult Head of the Department.

SPANISH

(a) General — First Year: Spanish 100 or 140; Second Year: Spanish 260 and 290; Third and Fourth Years: Spanish 302 and six units of Spanish courses numbered 400 or above.

(b) Major — First Year: Spanish 100 or 140; Second Year: Spanish 260 and 290; Third and Fourth Years: Spanish 302 and at least twelve units in Spanish courses numbered 400 or higher.

(c) Honours — First Year: Spanish 100 or 140; Second Year: Spanish 260 and 290; Third and Fourth Years: Spanish 302 and at least five other Spanish courses numbered 400 or higher.

NOTE: Students in most elementary courses will be required to purchase a tape for use in the language laboratory.

COURSES OFFERED

Students from Secondary Schools with credit in French 92, 110 or 120 will be placed in French 180, 240 or 280 according to their previous record and to their academic plans.

FRENCH

140. (3) Elementary French

(Prerequisite: French 20) — Study of French texts, grammar, pronunciation, oral practice.

Texts: *Histoire d'une revanche; En France comme si vous y étiez* (Students' handbook). (4-0; 4-0)

180. (3) French Language and Literature

(Prerequisite French 92) — Study of French texts, grammar, pronunciation.

Texts: *L'Essentiel de la grammaire française*, and accompanying workbook; Vercors, *Le Silence de la mer*; Molière, *Le Bourgeois gentilhomme*; Camus, *L'Étranger*; Beaumarchais, *Le Barbier de Séville*; and others to be announced. (4-0; 4-0)

240. (3) Intermediate French

(Prerequisite: French 140).

Texts: *En France comme si vous y étiez* (Students' handbook); Voltaire, *Candide*; Parker, *Contes d'hier et d'aujourd'hui*; Ferrar, *French Reference Grammar*. (4-0; 4-0)

280. (3) French Language and Literature

(Prerequisite: French 180) — For students taking this as a terminal course:

Texts: Racine, *Andromaque*; Molière, *Les Précieuses ridicules*; Voltaire, *Candide*; Grubbs-Kneller, *Introduction à la poésie française*; Gide, *La Symphonie pastorale*; Mauriac, *Thérèse Desqueyroux*; Anouilh, *Antigone*; and others to be announced. (4-0; 4-0)

280. (3) French Language and Literature, Sections 1 and 2

(Prerequisite: French 180) — For students taking this course, in conjunction with French 290, as prerequisite for a major or an Honours programme.

Texts: *Les Grands Écrivains français* (ed. Gauthier and Sumberg). (3-0; 3-0)

290. (3) French Oral and Written Practice

(Corequisite: French 280).

Texts: Same as for French 280 Sections 1 and 2; Whitmarch and Jukes, *Advanced French Course* and English-French, French-English Dictionary (Larousse; and other to be announced. (4-0; 4-0)

302. (3) Advanced Composition and Stylistics

Texts: Whitmarch, *Cours supérieure*; Gide, *L'École des femmes*; Rostand, *Cyrano de Bergerac*; Maurois, *Le Cercle de famille*. (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*; Prévost, *Manon Lescaut*; Marivaux, *Vie de Marianne*, Laclos, *Liaisons dangereuses*; Saint-Pierre, *Paul et Virginie*; Condillac, *Traité des Sensations*; Beaumarchais, *Barbier de Séville*, *Mariage de Figaro*; Diderot, *Neveu de Rameau*, *Paradoxe sur le Comédien*, *Supplément au Voyage de Bougainville*; Rousseau, *Lettre à d'Alembert sur les Spectacles*, *Discours sur les Sciences et les Arts*, *Discours sur l'Origine de l'Inégalité*; Voltaire, *Lettres philosophiques*. (3-0; 3-0)

409. (3) Literature of the Seventeenth Century

Texts: Lagarde et Michard, *XVII^e Siècle*; *La Princesse de Clèves* (ed. Ashton); and the following in Bordas edition: *Le Cid*; *Polyeucte*; *Britannicus*; *Phèdre*; *Les Femmes savantes*; *L'École des Femmes*; *Tartuffe*; *Le Misanthrope*. (3-0; 3-0)

411. (3) **Nineteenth Century Part I (Romanticism)**

Texts: Lagarde et Michard, *XIX^e Siècle*, and others to be announced. (Not offered 1966-67). (3-0; 3-0)

412. (3) **Nineteenth Century Part II (Realism, Naturalism, Symbolism)**

Texts: Hackett, *Anthology of modern French Poetry from Baudelaire to the Present Day*; Maeterlinck, *Pelléas et Mélisandre*; Bornecque et Cogny; *Réalisme et naturalisme*; Flaubert, *Trois Contes*; Fromentin, *Dominique*; Huysmans, *A Rebours*; Maupassant, *Boule de Suif*; Zola, *Thérèse Raquin*. (3-0; 3-0)

415. (3) **Modern French Theatre**

Texts: Guicharnaud, *Modern French Theatre*; Anouilh, *Le Voyageur sans bagages, L'Alouette*; Claudel, *L'Annonce faite à Marie*; Cocteau, *Les Parents terribles, La Machine infernale*; Giraudoux, *La Guerre de Troie n'aura pas lieu, Electre*; Montherlant, *La Reine morte*; Salacrou, *La Terre est ronde*; and others to be announced. (3-0; 3-0)

416. (3) **Modern French Novel**

(Not offered 1966-67). (3-0; 3-0)

418. (3) **French Canadian Literature**

(Not offered 1966-67). (3-0; 3-0)

320/420. (3) **Honours Seminar**

To be taken in both Third and Fourth Years.

Under the direction of members of the Department an Honours candidate, in both Third and Fourth Years, will read widely in the literature of the various centuries, particularly in those in which he has not taken a lecture course. He will also write at least five major essays during the two-year period. The final examination in this course will consist of a comprehensive written and a comprehensive oral test. (3-0; 3-0)

425. (3) **History of the Language** (3-0; 3-0)

430. (3) **Directed Reading Course** (3-0; 3-0)

GERMAN

First Year students fluent in German who wish to enrol in a German course will be required to register for German 240, 260 or 290, or for a course numbered 400 or above dependent upon ability; those in Second Year will register for a course numbered 400 or above.

100. (3) **Beginners' German**

Essential grammar, spoken and written drill; elementary readings in German prose; selected poetry. (For students who have had no German studies).

Texts: Burkhard and Menze, *Lernen Sie Deutsch* (Rev. ed.); Kriegel and Tracy, *Deutsche Gedichte*. (4-1; 4-1)

140. (3) **Elementary German**

Survey of grammar; readings in German literature; selected poetry. (For students who have completed German 10 or 20 in Secondary School, and for students whose standing in Beginners' German is unsatisfactory for admission to a higher course.)

Texts: Zeydel, *Basic Course in German*; Loram and Phelps, *Aus unserer Zeit* (2nd rev. and enl. ed.); Kriegel and Tracy, *Deutsche Gedichte*. (4-1; 4-1)

240. (3) **Intermediate German**

Literary reading, composition, conversational practice. (Normally intended as a terminal course in German).

Texts: Phelps and Stein, *A German Heritage* (rev. ed.); Ryder, *Zehn Jahrzehnte* (rev. ed.); Russon, *Complete German Course*; Cassell, *Compact German Dictionary*. (3-1; 3-1)

260. (3) **Introduction to German Literature**

Literary readings; composition; conversational practice. (Open to students with a high standing in German 100 or 140, or equivalent).

Texts: Feise and Steinhauer, *German Literature since Goethe, Pt. I*; Lederer-Neuse, *Kleines Aufsatzbuch*; Cassell, *Compact German Dictionary*. (3-1; 3-1)

290. (3) **German Composition and Conversation**

Open to students with a high standing in German 100 or 140, or equivalent.

Texts: Müller, *Deutsch* (Erstes Buch); Pope, *Writing and Speaking German*. (3-1; 3-1)

302. (3) **Advanced Composition and Stylistics**

Intensive training in oral and written composition. (Required for major and honours students.)

Texts: Neuse, *Deutscher Sprachgebrauch*; de Haar, *Im Zeichen der Hoffnung* (This text is provided by the Department). (3-1; 3-1)

400. (3) **Nineteenth-Century German Literature**

Texts: T. M. Campbell, *German Plays of the Nineteenth-Century*; other texts to be announced. (3-0; 3-0)

401. (3) **Twentieth-Century German Literature**

(Not offered in 1966-67). (3-0; 3-0)

404. (3) **The Romantic Movement**

(Not offered in 1966-67). (3-0; 3-0)

410. (3) **The Classical Period**

Literature of the 18th and early 19th century with emphasis on the drama of Lessing Schiller and Goethe.

Texts: Lessing, *Minna von Barnhelm*, *Nathan der Weise*; Schiller, *Maria Stuart*; Goethe, *Poems* (Boyd), *Iphigenie auf Tauris*, *Faust* (Pt. I), *Goethe erzählt sein Leben* (Fischer no. 136). (3-0; 3-0)

417. (3) **The German Novelle**

A study of the development of the German Short Story with special emphasis on 19th century writers.

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

420. (1½) **Middle High German**

Grammar and readings in Middle High German masterpieces.

Texts: Wright, *A Middle High German Primer*. (1½-0; 1½-0)

421. (1½) **Old High German**

(Not offered in 1966-67). (1½-0; 1½-0)

430. (3) **Directed Reading Course**

(By permission, for Honours' or Major students). (3-0; 3-0)

490. (3) **Honours Seminar**

(The Seminar may include a graduating essay.) (3-0; 3-0)

RUSSIAN

100. (3) **Basic Russian**

First introductory course in the Russian language.

Texts: Fennell, *The Penguin Russian Course*. (4-1; 4-1)

200. (3) **Second Year Russian**
 Second course in the Russian language.
 Texts: Lunt, *Fundamentals of Russian*; Khavronina, *Russian As We Speak It.*
 (4-1; 4-1)
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.
 Texts: Davydoff and Pauliat, *Civilisation et littérature russes.* (3-0; 3-0)
302. (3) **Advanced Composition and Stylistics**
 Texts: Borrás and Christian, *Russian Syntax*, Borrás and Christian, *Russian Prose Composition.* (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.
 Texts: Mirski, *A History of Russian Literature.* (3-0; 3-0)
308. (3) **History of Russia**
 (Not offered 1966-67).
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.
 Texts: To be announced. (3-0; 3-0)
430. (3) **Directed Reading Course** (3-0; 3-0)

SPANISH

100. (3) **Beginners' Spanish**
 (For students who have not studied Spanish). Grammar, composition, translation, oral work in language laboratory.
 Texts: Rogers, *Spanish for the First Year* (2nd ed.); Rogers and Butler, *Workbook for Spanish for the First Year* (2nd ed.); Wofsy, *Diálogos entretenidos*; Leslic, *Cuentos y Risas.* (4-1; 4-1)
140. (3) **Elementary Spanish**
 (For students who have completed Spanish 10 or 20 in Secondary School, and for students whose standing in Beginners' Spanish is unsatisfactory for admission to a higher course). Review of grammar; translation, composition, oral work in language laboratory.
 Texts: Zenia Sacks Da Silva, *Beginning Spanish, a Concept Approach and Tape Manual for Beginning Spanish*; de Del Río and Hespelt, *Lecturas Hispánicas: A Conversational Approach to Reading*, Bk. I; Traven, *El tesoro de la Sierra Madre.* (4-1; 4-1)
240. (3) **Intermediate Spanish**
 (Normally intended as a terminal course in Spanish). Review of grammar; translation, composition, oral work.
 Texts: Hesse and Orjuela, *Spanish Conversational Review Grammar*; Maurino and Fucilla, *Cuentos hispanoamericanos de ayer y de hoy*; Camba, *Países, Gentes, y Cosas*; Mihura, *Mi adorado Juan.* (3-1; 3-1)
260. (3) **Introduction to Spanish Literature**
 (For students who intend to do major or honours work in Spanish). Study of modern authors, composition, and assigned themes.
 Texts: Marín, *La civilización española*; Yates and Dalbor, *Imaginación y fantasía*; Rojas, *De Cela a Castillo-Navarro*; Iriarte, *Juego de niños.* (4-0; 4-0)

290. (3) **Review Grammar and Conversation**
 (For students who intend to do major or honours works in Spanish.) Review of grammar; translation, oral work.
 Texts: Ugarte, *Gramática española de repaso*; Durán and Alvarez, *Voces españolas de hoy*; Anderson-Imbert and Kiddle, *Veinte cuentos hispanoamericanos del siglo XX*.
 (3-1; 3-1)
302. (3) **Advanced Composition and Stylistics**
 (Prerequisite: C or better in Spanish 290.)
 Study of stylistics and prose syntax.
 Texts: To be announced. (3-0; 3-0)
400. (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 1966-67). (3-0; 3-0)
403. (3) **Introduction to the Golden Age**
 Spanish literature of the sixteenth and seventeenth centuries, with the exception of the novel.
 (Not offered in 1966-67). (3-0; 3-0)
404. (3) **The Literature of Spanish America**
 (Not offered in 1966-67). (3-0; 3-0)
405. (3) **The Golden Age Novel, Excepting Cervantes**
 Development of the Spanish novel from its beginnings to the end of the seventeenth century.
 Texts: To be announced. (3-0; 3-0)
410. (3) **Spanish Literature, 1700-1898**
 Main currents of the eighteenth and nineteenth centuries; Neo-Classicism, Romanticism, Realism.
 Texts: To be announced. (3-0; 3-0)
430. (3) **Directed Reading Course** (3-0; 3-0)
490. (3) **Honours Seminar, or Graduating Essay** (3-0; 3-0)

MUSIC

NOTE: Music 101, 120 and 201 may be taken for credit in the Faculty of Arts and Science.

101. (3) **Elementary Theory**

This course includes a study of diatonic harmony, ear training and score analysis.

It is the first required course for the Music Major in the B.Ed. degree and should be taken at the earliest possible opportunity by students planning to take a Music Major in either the elementary or secondary programme.

Prerequisite: Previous music training satisfactory to the Music Section of the Faculty of Education.

Text: Siegmeister, *Harmony and Melody*, 1965. (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: To be announced. (3-0; 3-0)

201. (3) **Intermediate Theory**

A continuation and expansion of the material studied in Music 101, this course includes a study of chromatic harmony, modulation and elementary arranging.

This is a required course for the Music Major in the B.Ed. degree and is prerequisite to senior courses in both elementary and secondary programmes. It should be taken at the earliest opportunity for students planning to take a Music Major.

Prerequisite: Music 101 or equivalent.

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

For list of Faculty see page 133.

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.
John M. Bush, M.A. (*Wash.*), Instructor.
John Paul Graff, A.B. (*Yale*), M.A. (*Calif.*), Instructor.
Richard K. Martin, B.A. (*Lehigh Univ.*), Instructor.
John M. Michelsen, M.A. (*Wash.*), Instructor.

GENERAL, MAJOR AND HONOURS PROGRAMMES

General — Nine units in courses in Philosophy numbered 300 or above with all prerequisites for such courses satisfied.

Major — Philosophy 100, 202, 300, 302, 330, 412 or 432, and three additional units in a course numbered 400 or above.

Honours — Philosophy 100, 202, 300, 302, 330, 412 or 432, 447, 449, and six additional units in courses numbered above 300 of which at least three units must be in a course numbered 400 or above.

Honours candidates must maintain at least a B average in their courses in Philosophy.

COURSES OFFERED

100. (3) **Introduction to Philosophy**

Analysis and discussion of some of the problems of philosophy as presented in classic texts.

Staff.

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.

Mr. Bush, Mr. Graff.

212. (3) **Philosophy of Religion**

An inquiry into the nature of religious experience; the relation between faith and reason; proofs for the existence of God; immortality; and the problem of evil.

Mr. Michelsen.

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.

Mr. Martin.

NOTE: Any of the following courses may be taken either by satisfying the stated prerequisites *or* with the consent of the Department.

300. (3) **Ancient Philosophy**

Western philosophic thought from the pre-Socratics to the neo-Platonists, with principal stress on Plato and Aristotle. Prerequisite: Philosophy 100.

Dr. De Lucca.

302. (3) **Ethics**

A study of problems in ethics based on the reading of classic texts.

Mr. Michelsen.

305. (3) **Medieval Philosophy**

Survey of the principal doctrines of Augustine, Boethius, Erigena, Anselm, Aquinas, Scotus, Ockham, and Eckhart. Prerequisite: Philosophy 300. (Not offered 1966-67).

310. (3) **Renaissance Philosophy**

A study of some of the doctrines of important Renaissance thinkers, including Petrarch, Ficino, Cusanus, Pico, Machiavelli, Montaigne, Vives, Grotius, Boehme, and Bruno. Prerequisite: Philosophy 300. (Not offered 1966-67).

312. (3) **Aesthetics**

An examination of principal theories concerning the nature of art, the creative process, aesthetic experience, and criticism. Prerequisite: Philosophy 100 or Art 120. (Not offered 1966-67).

330. (3) **Modern Philosophy**

A study of Descartes, Spinoza, Leibniz, Locke, Berkeley, and Hume. Prerequisite: Philosophy 100.

Mr. Bush.

332. (3) **Eastern Philosophy**

A study of basic texts and major philosophical systems of Hinduism, Buddhism, Confucianism, and Taoism. Prerequisite: 6 units in philosophy. (Not offered 1966-67).

400. (3) **Kant**

Intensive study of *The Critique of Pure Reason* and other epistemological works. Prerequisites: Philosophy 300 and 330. (Not offered 1966-67).

402. (3) **Advanced Logic**

Structure and properties of formal deductive systems. Axiomatic development of propositional and predicate calculi. Theory of classes. Problems of completeness, consistency, decidability, and independence. Prerequisite: Philosophy 202 or Mathematics 332 or 333.

Mr. Martin.

(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 1966-67).

410. (3) **Analytic Philosophy**

A study of the development of analytic philosophy from 1900 to the present. Prerequisites: Philosophy 202 and 6 additional units in philosophy. (Not offered 1966-67).

412. (3) **Epistemology**

An inquiry into the nature, scope, and limits of human knowledge; diverse conceptions and treatments of problems of cognition, meaning, and truth. Prerequisite: 9 units in philosophy.

Mr. Graff.

420. (3) **Existentialism**

Selected readings from the works of leading existentialist thinkers: Kierkegaard, Jaspers, Heidegger, Sartre, Marcel, and Buber. Prerequisite: 9 units in philosophy. (Not offered 1966-67).

422. (3) **Contemporary Philosophy**

Detailed examination and discussion of some recent philosophical writings, mainly of the last two decades. Prerequisite: 9 units in philosophy. (Not offered 1966-67).

432. (3) **Metaphysics**

An analysis of fundamental metaphysical concepts, including substance, quality, relation, causality, space, time, and the self. Prerequisite: 9 units in philosophy. (Not offered 1966-67).

447. (3) **Seminar in Philosophy**

Topic(s) to be selected by the instructor. Prerequisite: 9 units in philosophy. (Not offered 1966-67).

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

Intensive reading on a specific topic under the direction of a staff member and with the approval of the Chairman of the Department.

449. (3) **Honours Essay**

Dr. De Lucca.

DEPARTMENT OF PHYSICS

John L. Climenhaga, M.A. (*Sask.*), Ph.D. (*Michigan*), Professor and Head of the Department.

Walter M. Barss, M.A. (*Brit. Col.*), Ph.D. (*Purdue*), Associate Professor.

R. Michael Pearce, B.Sc. (*McGill*), M.A., Ph.D. (*Brit. Col.*), Associate Professor.

Lyle P. Robertson, M.A., Ph.D. (*Brit. Col.*), Associate Professor.

John M. Dewey, B.Sc., Ph.D. (*London*), Assistant Professor.

Harry W. Dosso, B.A., M.Sc. (*Brit. Col.*), Assistant Professor.

Gerhart B. Friedmann, B.Sc., M.A. (*Madras*), Ph.D. (*Brit. Col.*), Assistant Professor.

Grenville R. Mason, B.A.Sc. (*Brit. Col.*), M.Eng. (*McMaster*), Ph.D. (*Alta.*), Assistant Professor.

Harbhajan S. Sandhu, M.Sc. (*Panjab*), Ph.D. (*Brit. Col.*), Assistant Professor.

Harry M. Sullivan, M.Sc. (*McGill*), Ph.D. (*Sask.*), Assistant Professor.

John T. Weaver, B.Sc. (*Bristol*), M.Sc., Ph.D. (*Sask.*), Assistant Professor.

Donald E. Stenton, B.Sc. (*Brit. Col.*), Laboratory Supervisor.

Miss Cecily Girvan, B.Sc. (*Mount Allison*), Laboratory Instructor.

David W. Teece, B.Sc. (*Univ. of Victoria*), Laboratory Instructor.

Mrs. Elizabeth M. Turner, B.Sc. (*Alta.*), Laboratory Instructor.

The Department offers opportunities for study leading to the bachelor's and master's degrees and, in certain areas, to the doctor's degree. For information on the requirements for the master's and doctor's degree, see the section of the Calendar on Graduate Studies.

UNDERGRADUATE PROGRAMMES

For a B.Sc. degree in Physics, students may take the General, the Major or the Honours Physics programme. For a B.A. degree, students may choose the General programme in Physics for one of their fields of concentration. For the selection of Physics courses for the B.Ed. degree, consult the calendar under *Faculty of Education*.

B.Sc. students contemplating graduate studies in Physics should note that many graduate schools require a reading knowledge of a language other than English.

Students who have not decided between the Major and Honours programme are advised to select their first and second year courses to satisfy the Honours course requirements, which are somewhat more closely specified than for the other programmes.

Admission to the third and fourth years of the Honours programme requires the permission of the Department. Students considering the Honours programme will be expected to have, and maintain, at least second class standing. They should consult the Department about the Honours programme as soon as possible, preferably before entering their second year.

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 physical world, are advised to take Physics 103. All who propose to take further courses in Physics should take Physics 101.

The Physics Department requirements are listed below, according to year and programme. Other courses selected must satisfy the general calendar regulations for the degree desired.

FIRST YEAR

General

Physics 101
Mathematics 120 or 121

Major

Physics 101
Mathematics 120 or 121

Honours

Physics 101
Mathematics 121
Chemistry 102

Students registering in Physics 101, who have not obtained credit for B.C. Secondary School Physics 11, or its equivalent, must register in Section 1 (5 lectures per week).

Students who have done well in B.C. Secondary School Mathematics and Physics 11 and 12 may be permitted, by the Department, to omit Physics 101 and register in Physics 211, Section 1 (4 lectures per week), in their first year.

Students planning to take the Major programme are advised to register for Mathematics 121. For the Honours programme, although Mathematics 121 is prescribed, Mathematics 120 or Grade 13 Mathematics 101 may be accepted by the Department if a sufficiently high standing is obtained.

SECOND YEAR

General	Major	Honours
Physics 211	Physics 211	Physics 211
Physics 212	Physics 212	Physics 212
Mathematics 220 or 221	Mathematics 220 or 221	Mathematics 220 or 221
		Mathematics 222 or 223

Students who have taken Physics 211 in the first year may be permitted by the Department to take Physics 312 in the second year.

Students entering with first year standing from another university, or with Senior Matriculation standing, and wishing to take Physics 211 and 212 should consult the Department before registration is completed.

In the General programme, Physics 212 may be deferred to the third year, in which case Physics 322 would be deferred to the fourth year.

In the Major programme, Mathematics 222 or 223 is recommended, in addition to Mathematics 220 or 221.

The alternative Mathematics courses should be selected in consultation with the Physics Department.

THIRD YEAR

General	Major	Honours
Physics 312	Physics 312	Physics 312
Physics 322	Physics 322	Physics 321
Mathematics 330 or 331	Mathematics 330 or 331	Physics 322
	Mathematics 345	Physics 413
		Mathematics 330 or 331
		Mathematics 345

In the Major programme, Mathematics 345 may be deferred to the fourth year.

The alternative Mathematics courses should be selected in consultation with the Physics Department.

Third year Honours students are invited to attend the Physics Seminar (Physics 460).

FOURTH YEAR

General	Major	Honours
Physics 413	Physics 411	Physics 421
	Physics 413	Physics 422† and 423†
	Physics elective	Physics 429
		Physics elective
		Mathematics 333
		Mathematics 441

† 1½ units.

The Physics elective is to be chosen in consultation with the Department. In some instances it may be a course in a related field outside the Department.

Fourth year Honours students are required to participate in the Physics Seminar (Physics 460).

For 1966-67 only, Mathematics 345 should be taken in the fourth year by all students in the Major programme and those in the Honours programme who have already taken Mathematics 333.

COURSES OFFERED

101. (3) **Elementary Physics**

The basic physical concepts of mechanics, heat, sound, light, electricity and magnetism. Students who have not obtained credit for B.C. Secondary School Physics 11 or equivalent must register in Section 1, which has 5 lecture hours per week. Prerequisite: Mathematics 120 or 121 (may be taken concurrently).

Text: Smith and Cooper, *The Elements of Physics*, 7th ed. (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. Although Physics 103 is not intended as a prerequisite for any other Physics courses, it may be accepted by the Department in lieu of Physics 101 for students with high standing.

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. Laboratories scheduled on alternate weeks. Prerequisites: Physics 101, Mathematics 220 or 221 (may be taken concurrently). Students who have done well in B.C. Secondary School Mathematics and Physics 11 and 12 may be permitted to omit Physics 101 and to register in Physics 211, Section 1, which has four lectures per week.

Text: Young, *Fundamentals of Mechanics and Heat*. (3-3*; 3-3*)

212. (3) **Electricity and Magnetism, Electronics, and Modern Physics**

Fundamentals of electricity and magnetism, basic DC and AC circuit theory, introductory electronics, and topics in modern physics. Laboratories scheduled on alternate weeks. Prerequisites: Physics 101, Mathematics 220 or 221 (may be taken concurrently).

Text: Richards, Sears, Wehr and Zemansky, *Modern University Physics*, Part II. (3-3*; 3-3*)

312. (3) **Optics**

Geometrical and physical optics: lenses, optical instruments, interference, diffraction, polarization, spectroscopy. Laboratories scheduled on alternate weeks. Prerequisites: Physics 211, Mathematics 220 or 221 (may be taken concurrently).

Text: Morgan, *Introduction to Geometrical and Physical Optics*. (3-3*; 3-3*)

321. (3) **Classical Mechanics**

Analytic mechanics of particles, rigid bodies, Lagrangian and Hamiltonian mechanics, potential functions, wave equation, modes of oscillation. Prerequisites: Physics 211, Mathematics 330 or 331 (may be taken concurrently).

Text: Symon, *Mechanics*. (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. Laboratories scheduled on alternate weeks. Prerequisites: Physics 211 and 212, Mathematics 330 or 331 (may be taken concurrently).

Text: Winch, *Electricity and Magnetism*, 2nd ed. (3-3*; 3-3*)

411. (3) **Thermal Physics**

Heat, thermodynamics, kinetic theory, elements of statistical mechanics and low temperature physics. Prerequisites: Physics 211, Mathematics 330 or 331 (may be taken concurrently), and 345 (may be taken concurrently).

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

* Laboratories scheduled on alternate weeks.

413. (3) **Introductory Modern Physics**

The major phenomena in the fields of atomic and nuclear physics. Prerequisites: Physics 211 and 212, Mathematics 330 or 331 (may be taken concurrently).

Text: Weidner and Sells, *Elementary Modern Physics*. (3-3; 3-3)

421. (3) **Thermodynamics and Statistical Mechanics**

The laws of thermodynamics with applications; Boltzman, Bose-Einstein and Fermi-Dirac statistics. Prerequisites: Physics 211, Mathematics 330 or 331, and 345 (may be taken concurrently in 1966-67).

Text: Morse, *Thermal Physics*. (3-0; 3-0)

422. (1½) **Electromagnetic Theory**

Potential theory, Maxwell's equations, electromagnetic waves. Prerequisites: Physics 322, Mathematics 330 or 331, and 345.

Text: Corson and Lorrain, *Electromagnetic Fields and Waves*. (0-0; 3-0)

423. (1½) **Introductory Quantum Mechanics**

Operator postulates, barrier penetration, harmonic oscillator, one-electron atom, angular momentum operators, spin, time-independent perturbation theory. Prerequisites: Physics 413, Mathematics 330 or 331, and 345.

Text: Eisberg, *Modern Physics*. (3-0; 3-0)

424. (1½) **Modern Physics**

Identical particles, Fermi gas, multi-electron atoms, specific heat of solids, nuclear models, collision theory. Topics in nuclear, atomic and solid state physics. Prerequisites: Physics 423.

Text: Eisberg, *Modern Physics*. (0-0; 3-0)

425. (1½) **Electronics**

Electronic circuit theory with applications. Prerequisites: Physics 322, Mathematics 330 or 331.

Text: Hunten, *Introduction to Electronics*. (3-0; 3-0)

426. (1½) **Fluid Mechanics**

Introduction to basic theory of flow, kinematics of flow, Navier-Stokes equations, boundary layers, turbulent flow, introduction to compressible flow. Prerequisites: Physics 211, Mathematics 330 or 331, and 345 (may be taken concurrently).

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

427. (1½) **Geophysics**

Physics of the earth; including atmospheric studies and extra-terrestrial effects. Structure and composition of the earth, geo-thermometry, elementary seismology, and geomagnetism. Prerequisites; Physics 211 and 322 (Physics 322 may be taken concurrently), Mathematics 330 or 331 (may be taken concurrently), and 345 (may be taken concurrently).

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

429. (3) **Senior Laboratory and Theory of Measurement**

Advanced experiments including student projects. Instruction on experimental techniques and theory of measurement. Prerequisites: Physics 413.

Text: To be announced. (0-6; 0-6)

460. (0) **Physics Seminar**

Talks by students, faculty, and outside speakers. (2-0; 2-0)

GRADUATE COURSES

Students should consult the Department concerning the courses offered in any particular year.

- 500. (2) **Quantum Mechanics**
- 501. (1-2) **Nuclear Physics**
- 502. (2) **Electromagnetic Theory**
- 503. (2) **Theory of Relativity**
- 504. (2) **Atomic and Molecular Spectroscopy**
- 511. (2) **Applied Topics in Nuclear Physics**
- 512. (2) **Upper Atmosphere Physics**
- 513. (2) **Cosmic Ray Physics**
- 514. (1-2) **Fluid Mechanics**
- 515. (2) **Geophysics**
- 516. (2) **Acoustics**
- 560. (2) **Seminar**
- 580. (2) **Directed Studies**
- 599. **M.Sc. Thesis**
(Credit to be determined but normally in this Department 6 units.)
- 699. **Ph.D. Thesis**
(Credit to be determined.)

DEPARTMENT OF PSYCHOLOGY

William H. Gaddes, B.A., M.A. (*Brit. Col.*), Ph.D. (*Claremont*), Professor and Head of Department.

Stewart Meikle, M.A. (*Glasgow*), Ph.D. (*London*), Associate Professor.

Otfried Spreen, Ph.D. (*Freiburg*), Associate Professor.

Hans Werner Wendt, B.A. (*Hamburg*), Ph.D. (*Marburg*), Visiting Associate Professor.

Norah M. Carlsen, B.A. (*Brit. Col.*), M.A. (*Tor.*), Assistant Professor.

Gordon Neville Hobson, M.A., Ph.D. (*Alta.*), Assistant Professor.

Richard B. May, B.A. (*Whitman*), M.A. (*Claremont*), Assistant Professor.

Howard J. Simmons, B.Sc. (*M.I.T.*), Ph.D. (*Illinois*), Assistant Professor.

Charles W. Tolman, B.S. (*Wash.*), M.S., Ph.D. (*Wash.*), Assistant Professor.

Douglas E. Alcorn, M.D., C.M. (*McGill*), Cert. R.C.P. and S.(C) Neuro. & Psych., Part-time Lecturer.

Charles Gregory, M.D., Ch.B. (*Liverpool*), Cert. R.C.P. and S.(C) Psych., Part-time Lecturer.

Fouad A. Hamdi, M.D. (*Alexandria*), Ph.D. (*Edin.*), 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.

Honorary Research Associates

Malcolm Graham, B.S., M.D., C.M. (*McGill*), M.S. (*Iowa*), F.A.C.S.

Douglas Muir, M.R.C.S., L.R.C.P., D.M.R.D. (*Eng.*), D.M.R.D. (*London*), L.M.C.C., Cert. R.C.P.S. (*Can.*).

Llewellyn N. Roberts, M.D. (*Tor.*), F.R.C.P.(C), F.A.C.P.

GENERAL, MAJOR AND HONOURS PROGRAMMES

Six undergraduate programmes are offered by the Department of Psychology. The concentration in the general programme is designed to provide flexibility and a general background for students planning to enter other fields such as social work, journalism, law, medicine, etc. The Honours programmes are designed to provide a background for students planning graduate work in scientific or professional Psychology, but they are not mandatory for students planning to enter graduate training in Psychology. The Major programme, in either the B.Sc. or B.A., requires a degree of specialization in one field in the last two years, and may permit the student to proceed to graduate study if sufficiently high standing is obtained, or to professional or business careers. A student taking any Major or Honours Psychology programme is encouraged to consult a member of the Department early in his academic career. The Department of Psychology recognizes the right of a student to demonstrate competence in any area of these programmes by passing an examination set by the appropriate department.

General—In addition to the general University requirements for a B.A. or a B.Sc. degree, the student is required to take Psychology 100, and Psychology 200 or 220. In his upper years he must take 9 units of upper level courses in Psychology, 9 units of his other field of concentration, and 12 units of electives as prescribed by general University rulings.

Major—B.A.: In addition to the general University requirements for a bachelor's degree, the student is required to take Psychology 100 and 200, 15 units in courses numbered 300 or higher in Psychology and 15 units of free electives. His programme should follow the courses in the Honours programme as closely as possible. The choice of courses should be made in consultation with a member of the Department.

Major—B.Sc.: In addition to the general University requirements for a bachelor's degree, the student is required to take Psychology 100 and 200, 15 units in courses numbered 300 or higher in Psychology, 6 units of non-science electives and 9 units

of co-requisites or free electives. His programme should follow the courses in the Honours programme as closely as possible. The choice of courses should be made in consultation with a member of the Department.

Honours — The following table outlines 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 *B* average for all work and a *B+* average in Psychology are minimum requirements for these degrees.

RECOMMENDED COURSE SEQUENCE FOR HONOURS

	B.A. Honours		B.Sc. Honours	
<i>Year</i>	<i>Course</i>	<i>Units</i>	<i>Course</i>	<i>Units</i>
I.	Psychology 100	3	Psychology 100	3
	English 100	3	English 100	3
	Mathematics 120 or 121	3	Mathematics 120 or 121	3
	Biology 150	3	Biology 150	3
	Foreign Language	3	Foreign Language	3
	Total	15	Total	15
II.	Psychology 200	3	Psychology 200	3
	Philosophy 100	3	Philosophy 100	3
	Foreign Language	3	Mathematics 220 or 221	3
	English 200 or 201	3	Zoology 202	3
	Anthropology or Sociology 200..	3	Chemistry 102	3
	Total	15	Total	15
III.	Psychology 310	3	Psychology 310	3
	Psychology 311	3	Psychology 311	3
	Psychology 330	3	Psychology 330 or 414	3
	Psychology 335	3	Psychology Option	3
	Psychology or outside electives ..	6	Physics 101	3
	Total	18	Zoology 303	3
			Total	18
IV.	Psychology 410	5	Psychology 410	5
	Psychology 411 or 414	3	Psychology 411 or 414	3
	Psychology Option	3	Psychology Option	3
	Psychology or outside electives*..	7	Psychology or outside electives*..	7
	Total	18	Total	18

*Six units of outside electives are required in the Third and Fourth Years combined. Mathematics 206 is recommended.

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. Students may be requested to participate in experiments up to a total of three hours.

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.

Drs. Tolman and Hobson. (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 may be required.

Prerequisite: Psychology 100.

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

NOTE: Admission to the following courses is by permission of the instructor.

310. (3) 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.

Dr. May. (2-2; 2-2)

311. (3) 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*.

Drs. Tolman and May. (2-2; 2-2)

312. (3) 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. In addition, Zoology 202 and 303 are recommended.

Dr. Simmons. (2-2; 2-2)

330. (3) Personality Theory

A critical investigation of the major theories of personality, theoretical problems, and the relation of these theories to other major psychological systems.

Mrs. Carlsen. (3-0; 3-0)

331. (3) Social Psychology

A scientific study of the individual and the pattern of forces impinging on him from the social group. Basic psychological factors, attitudes, communication, the cultural habitat, group dynamics, leadership, social controls and other group pressures will be studied. A term paper or research project will be required.

Mrs. Carlsen. (3-0; 3-0)

332. (3) Educational Psychology

For description see Education 301.

333. (3) Human Factors

The study of human engineering, man-machine systems, personnel selection and evaluation, and basic psychological processes applied to modern business and industry. (Not offered in 1966-67).

(3-0; 3-0)

334. (3) **Personnel Psychology**

Psychological theories and techniques applied to selection and management of personnel in business, industry and education. (Not offered in 1966-67). (3-0; 3-0)

335. (3) **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.

Dr. Meikle.

(3-0; 3-0)

370. (3) **Psycholinguistics**

Offered in collaboration with the Department of Linguistics. A course in the psychopathology of language covering such topics as the nature and function of language, language acquisition and language change, the pathology of linguistics behaviour, language and cognition. Prerequisite for students majoring in Psychology, Psychology 100 and either 200 or 220. Other students may be admitted at the discretion of the instructors and/or their Departments.

Dr. O'Grady and Dr. Spreen.

(3-0; 3-0)

410. (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 310 and honours standing.

Dr. Hobson and staff.

(2-6; 2-6)

411. (3) **Perception**

The experimental study of perceptual and cognitive processes. Prerequisite: Psychology 200.

Dr. Spreen.

(2-2; 2-2)

412. (1 or 2 or 3) **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.

413. (3) **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.

Dr. Meikle.

(3-0; 2-2)

414. (3) **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.

Dr. Hobson.

(2-2; 2-2)

430. (3) **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. Wendt, Dr. Alcorn, Dr. Gregory, and Dr. Kenning.

(3-0; 3-0)

432. (3) **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 330.

Dr. Gaddes.

(3-0; 2-2)

433. (3) **Comparative Psychology**

The investigation of the behaviour of organisms at selected points along the phylogenetic scale. Prerequisites: Psychology 200 and Zoology 105.

Dr. Tolman.

(2-2; 2-2)

GRADUATE COURSES

Students should consult the Department concerning the courses offered in any particular year.

501. (3) **Proseminar in Advanced Psychology I**

Current topics from the psychology of learning, perception, sensation, thinking, biological basis of behaviour, research design, and quantitative methods will be considered in discussion led by members of the faculty.

Journal required: *Psychological Bulletin*.

Dr. Wendt and staff.

502. (3) **Proseminar in Advanced Psychology II**

Contemporary theories and experimental findings in personality, developmental, and social psychology will be considered in discussion led by members of the faculty.

Journal required: *Journal of Personality and Social Psychology*.

Dr. Spreen and staff.

503. (1-6) **Practicum in Methods of Psychology**

Practical experience and instruction under the close supervision of a Faculty member of the department will be received in one or more of the following areas: Applied Experimental Psychology, Clinical Psychology, Neuropsychology, or Teaching of Psychology. Students taking practicum in Clinical Psychology will register for 6 units of credit.

504. (1-3) **Individual Study**

Directed study of current specialized problems in psychology will be conducted under the supervision of a member of the faculty of the department. The focus of this study will be theoretical.

599. (3-6) **Independent Research**

Research into current problems of psychology will be conducted under the sponsorship of a member of the faculty of the department. This work will usually be directed toward the completion of the Master's Thesis.

699. (3-15) **Doctoral Dissertation**

Faculty of Education

FACULTY OF EDUCATION

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FACULTY OF EDUCATION

Fred T. Tyler, B.Sc., M.Ed. (*Alta.*), Ph.D. (*Calif.*), 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. (Leave of absence 1966-67).

Howard B. Barnett, A.R.C.T., B.A., Mus. Bac. (*Tor.*), M.A., Ph.D. (*S. Calif.*), Associate Professor.

David J. Chabassol, B.A., B.Ed. (*Acadia*), M.Ed. (*Tor.*), Ph.D. (*Alta.*), Associate Professor.

Miss Jean D. Dey, M.Ed. (*Alta.*), Associate Professor.

D. Boyce Gaddes, A.T.C.M., B.Mus. (*Oregon*), M.A. (*Wash.*), Associate Professor.

A. Wilfrid Johns, B.A. (*Wash.*), Associate Professor.

Fred L. Martens, B.A., B.Ed. (*Brit. Col.*), M.Sc. in P.E. (*Wash.*), Associate Professor.

Geoffrey P. Mason, M.A. (*Brit. Col.*), Ph.D. (*Wash. State*), Associate Professor.

Richard H. J. Monk, B.A. (*Brit. Col.*), M.Ed., Ph.D. (*Wash.*), Associate Professor.

Tory L. Westernmark, B.Ed. (*Alta.*), M.Ed., D.Ed. (*Oregon*), Associate Professor.

Mrs. Kathleen M. Christie, B.A. (*Brit. Col.*), Assistant Professor. (Leave of absence 1966-67).

Miss Jessie B. Fleming, B.A. (*Brit. Col.*), M.A. (*Wash.*), Assistant Professor.

Charles G. Galloway, B.A. (*Cent. Wash. Coll. of Ed.*), M.A. (*Harvard*), Assistant Professor.

Cary F. Goulson, M.A. (*Brit. Col.*), Assistant Professor.

John F. Hall, A.M. (*Stanford*), M.S. (*Oregon State*), Assistant Professor. (Leave of absence 1966-67).

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.

Valdimar Kristina Johnson, B.A. (*Pacific Luth.*), M.A. (*Calif.*), Assistant Professor.

Edward E. Owen, M.A. (*Auckland*), Assistant Professor. (Leave of absence 1966-67).

George E. Smith, B.A., M.Ed. (*Brit. Col.*), Assistant Professor.

Robert Swailes, B.S.A. (*Man.*), M.Ed. (*Brit. Col.*), Assistant Professor.

David C. Thomas, B.A. (*Brit. Col.*), M.A. (*Oregon*), Assistant Professor.

William K. Cross, B.Ed. (*Brit. Col.*), Instructor.

John Philip Dobreiner, Dip. V.S.A., B.Ed. (*Brit. Col.*), Instructor.

Donald Harvey, A.T.D. (*Britain*), Instructor. (Leave of absence 1966-67).

John J. Sheppy, B.A., M.Ed. (*Brit. Col.*), Instructor.

Mrs. Marion Small, B.Ed. (*Brit. Col.*), Instructor.

Alex J. Wood, M.S.A. (*Brit. Col.*), Ph.D. (*Cornell*), Honorary Lecturer.

From Counselling:

Miss Esme N. Foord, M.A. (*Queen's*), B.Paed., Ed.D. (*Tor.*), Associate Professor, Director of Counselling and Testing.

From the Department of Modern Languages:

J. Beattie MacLean, B.A. (*Brit. Col.*), M.A., Ph.D. (*Wash.*), Associate Professor of German.

Jean-Pierre Mentha, L. ès Sc. Soc. (*Geneva*), M.Ed. (*Brit. Col.*), Assistant Professor of French.

From the University Library:

Dean W. Halliwell, M.A. (*Sask.*), B.L.A. (*Tor.*), Honorary member.

**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:

A1. 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 140).

Successful completion of the first two years of this programme fulfils course requirements for the interim Elementary B Certificate.

A2. 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 135 (Admission Requirements). (See also A2, page 142).

A3. 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 142).

A4. 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, page 143).

B. IN THE SECONDARY TEACHING FIELD:

B1. A five-year programme from High School Graduation (Academic and Technical 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 147).

B2. 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 149).

B3. 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 1966-67 this programme will be limited to graduates with acceptable majors in two of Art, Biological Sciences (Biology, Botany, Zoology), English, French, German, Geography, History, Latin, Mathematics, Music and Physics. See also page 135 (Admission Requirements). (See also B3, page 149).

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 Basic (EB)
- Full Third Year* — Elementary Advanced (EA)
- Full Fourth Year* — Professional C (PC)
- Full Fifth Year* — Professional Basic (PB)

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. (See page 142).

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 42 and 43. 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 such as Arts and Science or in 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, A2, see page 142.

For the present a special provision is made that students with 12 units of acceptable credit through Grade XIII or First Year university with a good record may be admitted to the one-year professional programme, A2 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 (Secondary), B3, see page 149.

(a) Candidates will be admitted who:

Hold a degree from a recognized university with completed majors (at least 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, Latin, Mathematics, Music, Physics, and have obtained an average of 65% (or B-) 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 Areas for Secondary Teachers", pages 149 to 151.

* After the session 1966-67 specialization in two teaching areas will be required.

or

Have completed an Honours or a Master's degree in one of the above.

(b) Candidates 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 15.

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 23, 24 and 25)

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 15. 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 144 to 151.

REGISTRATION

Registration of qualified students in the Faculty is governed by the general regulations on pages 26 and 27, except that **no student will normally be allowed to register or transfer after the first day of instruction.**

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.

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 Grade XIII.

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.

FEES AND EXPENSES

Fees paid by students in the Faculty are comparable to those in Arts and Science. The tuition and student fees are \$458 in each year of the course.

For expenses of board and room see pages 35 and 36.

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, 498, 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. Students whose places of residence are outside the local area should not expect to take the post-session practicum in any of School Districts 61, 62, or 63.

FINANCIAL ASSISTANCE

For information about scholarships, bursaries and loans available see pages 177 to 209.

Work in the Library and in the Cafeteria, at the rate of \$1.25 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 by the Department concerned prior to the final examination, and students who have not obtained a mark of at least D 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. For the general University marking system, the student is referred to pages 26 and 27 ("Evaluation of Student Achievement").

2. Candidates taking at least 15 units of work, and obtaining a grade of at least D in each subject, will be placed in one of the following categories on the basis of general average:

- First Class, a grade point average of 7 (A-) or higher;
- Second Class, a grade point average of 4 (B-) or higher;
- Passed, a grade point average of 1 (D) or higher.

3. (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.

4. 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, 200, or 201 and Mathematics 203, no course may be repeated more than once. In the winter session the total of all courses taken may not exceed 18 units.

5. Essays and examinations will be refused a passing mark if they are deficient in English.

6. To be eligible for the Bachelor of Education degree, the candidate must normally have earned:

- (a) a mark of at least D in each of the courses comprising the degree programme;
- (b) an average of not less than C+ in the senior courses of each of the majors which constitute the candidate's programme.

7. 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 candidate will be granted a supplemental in a subject which he has taken during the session provided (i) he has written the final examination and has obtained a final grade of E (formerly 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; accordingly, a grade of E confers only conditional supplemental standing, and is not a guarantee of supplemental eligibility. A student who obtains a grade of F in a given subject may not write a supplemental examination in that subject.

2. A student in the final year of a degree programme taking only 12 units of course work will be granted supplemental privileges in 3 units at the discretion of the Dean and the Registrar, provided the student has written the final examination and obtained a grade of E in the course for which this supplemental privilege is granted.

3. 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.

4. No supplementals will be granted to students registered in summer session or Evening Division.

5. At the discretion of the Faculty, arrangements may be made in certain cases for a further trial period of practice teaching.

6. 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").

7. Supplemental examinations, covering the work of both the first and second terms, will be held during August. Supplemental examination privileges will not be granted to students who fail the laboratory work of science courses.

8. 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:

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 143).

	<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 150, Chemistry 100 or 102, Geography 101, Physics 101 or 103, Astronomy 120	3
†One of: the first year of a language other than English, or first year Mathematics, or Fine Arts 101, or Music 101, or Music 120, or Physical Education 140 and 141	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 or 201 (or approved course if already completed)	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 144 and 145) or to approved electives or to a combination of both	9
	18 units
Fourth Year	
Education 400 or 430	3
Education 309 (except for Art and Music majors)	3
**12 units devoted to the major chosen (see pages 144 and 145) 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 144). A student who plans at the end of the Second Year to transfer to the Secondary programme should consider prerequisites for teaching areas (see pages 149-151). For admission to P.E. 140, 141, a student will be required to present a medical certificate and to pass a skills test (see pages 144 and 145). Because of lack of accommodation Physical Education 140, 141 are open only to students intending to major in Physical Education. A student should not attempt Music 101 unless he is seriously considering a major in Music.

††English 200 should be chosen by students who plan to take an English Major in their Third and Fourth Years. See pages 144 and 145.

*A student who has already taken Geography 101 must choose in place of Geography 303 another approved Geography course (preferably a regional course). Students taking a Geography major may substitute an approved course in History in lieu of Geography 303.

**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 144).

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 or 201 (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 (except for Art and Music majors)	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 201 or, if one of these courses has been completed, English 300 or 400 or approved Senior Education course	3
	18 units

This is the one-year professional programme mentioned on page 134 (A2). For special admission provisions see also page 135 (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 134. 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
	18 units

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 Dean.

Students in this professional year should note that to gain any course credit at all they must pass Education 297 (Observation and Practice Teaching).

A+. Post-Bachelor of Education (Elementary) Degree Programme:

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 C+.

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*.

In the First Year of the regular Elementary Programme students will have their observation, demonstration lessons, and school experience 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 school experience 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 and demonstrations on Thursdays. They will also have a two-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 145) to make up the total of 21 units;

or

one approved academic major (see page 145), 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 C+ in the 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 or Art 100.

3rd and 4th years: Ed. 305 (in place of Ed. 309); Fine Arts 300 and 302; and any one of the following groups: Fine Arts 305 and 401 *or* Fine Arts 401 and 402 *or* Fine Arts 305 and 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's Office.

3rd year: Education 407 and 331 and three units of Education 415, 417, 461.

4th year: Not offered in 1966-67.

Intermediate Education

2nd year: Ed. 204 preferred but not required.

3rd and 4th years: Ed. 415, 461 and 6 units of Ed. 305, 307, 407, 408, 417, 460, Eng. 301, Linguistics 390, Theatre 301.

Music Education

Prerequisites: Previous music training satisfactory to the Music Section of the Faculty of Education.

1st year: Music 101.

3rd and 4th years: Music 201; Music 120 or F.A. 101; Ed. 307 (in place of Ed. 309) and the following courses which at present are offered only in Summer Session: Music 302, Music 303, and Music 401.

NOTE: Students contemplating taking a Music Major should consult the Dean's Office.

Physical Education

Students specializing in Physical Education are referred to the notes on pages 156 and 157.

1st year: Biology 150, P.E. 140, 141.

3rd year: P.E. 240, 341, 342, an approved course in Zoology.

4th year: Senate has approved in principle the offering of other senior courses in subsequent sessions.

NOTES: 1. Students contemplating starting on a Physical Education Major should consult the Dean's Office.

2. The practical part of each physical education course is regarded as laboratory work; in order to receive credit for each course, the student will be required to make satisfactory standing in this part of the work (see page 137, Examinations and Advancement, item 3).

Primary Education

2nd year: Ed. 203 preferred but not required.

3rd and 4th years: Ed. 405, Eng. 301, and two of Ed. 305, 307, 407, 408, 415, 417, 461, Linguistics 390, Theatre 301.

Science Education

Biology 150; one first year Physics or Chemistry course; Zoology 416 or Geology 200 or another approved Science course; 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 at least at the 200 level. 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 C+ 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 C+ 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.

An academic major in the elementary programme consists of 9 units of approved senior courses in one department of Arts and Science.

In the case of an English major *only*, the Second Year prerequisite has already been completed. A student electing a major in English will take Linguistics 390, together with 9 units of senior English courses and 9 units of senior Education courses.

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 electives in Education or courses carrying credit in the Faculty of Education only.

SECONDARY PROGRAMMES

B1. The Bachelor of Education (SECONDARY) Degree Programme:

This is the standard programme designed for the preparation of secondary school teachers. It consists of a minimum of 75 units. Every student is required either to specialize in two subjects ordinarily taught in secondary schools or to take an Honours Course in one such subject. In each subject area including prerequisite courses, at least 15 units and not more than 24 units must be taken. An average of at least C+ is required in the senior courses of each of the areas that constitute a candidate's programme. A candidate electing to take an Honours Course in one teaching area must be prepared to complete from 75 to 84 units for the degree depending upon the requirements of the department in which the course is taken.

In both the Pass and Honours programmes a maximum of 21 units of Education courses is permitted.

The professional courses listed for the fifth year may not be taken in earlier years.

The regular 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.

Unit Requirements:

Education, including practice teaching	21 units
Academic courses, assigned to two teaching areas	45 units
Free academic electives	9 units
	—
Total	75 units

Programme by Years:

	First Year	Units
Education 198		0
English 100		3
Prerequisites		6
Corequisites		0-6
Elective		6-0
		—
		15
	Second Year	
Education 298		0
Prerequisites		6-12
Corequisites		6-3
Elective		3-0
		—
		15
	Third Year	
Education 398		0
Education 301		3
Area courses		9-12
Elective		3-0
		—
		15
	Fourth Year	
Education 498		0
Education 332		3
Area courses		12-9
Elective		0-3
		—
		15

Fifth (Professional) Year		Units
Education 499		0
Education 400 or 430 or 470		3
Education 410		1½
Education 435		1½
Education elective		3
Education 404 (in two areas)		6
		15

NOTE: All students and particularly those planning to proceed to a Master's degree in Education are advised to seek guidance concerning choice of electives.

Students entering Third, Fourth, or Fifth Year of the Regular Programme In 1966-67:

For the session 1966-67 students entering Third, Fourth, or Fifth Years (Secondary Programme) will continue the programmes on which they began with only minor alterations.

Students who are currently proceeding towards the B.Ed. (Secondary) degree by means of summer sessions will also continue their present programmes. If the completion of the requirements for the degree is unduly delayed, a reevaluation of further work necessary may have to be made.

Details of courses for these years follow:

Third Year (Session 1966-67 only)	
Education 398	0
Education 301	3
Area courses	15
	18

Fourth Year (Sessions 1966-67, 1967-68 only)	
Education 498	0
Education 332	3
English 300 or 400	3
Area courses	9 or 12
	15 or 18

Fifth Year (Session 1966-67 only)	
Education 499	0
Education 332	3
Education 400 or 430 or 470	3
Education 404	4½
Education 410	1½
Education elective	3
	15

OTHER PROGRAMMES — Secondary Field

B2. Three-Year Programme for Teachers Holding the Elementary Basic Teaching Certificate:

For 1966-67, requirements of the Third, Fourth and Fifth years of this programme may be obtained from the Registrar's Office.

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 Education 400 or alternative, and an Education elective unless otherwise authorized by the Dean.

	<i>Units</i>
Education 499 (Observation and Practice Teaching)	0
Education 301	3
Education 332	3
Education 404 (in two areas)	6
Education 410	1½
Education 435	1½

NOTES:

Students may *not* take an academic subject concurrently in this professional year. None of these courses may be taken in advance of this Professional Year, which is always a winter session programme.

During each of the five years of the Bachelor of Education (Secondary) programme a seminar and professional experience or practice-teaching will be required. The granting of the degree is dependent upon satisfactory performance of these requirements.

SECONDARY TEACHING AREAS AND REQUIRED COURSES

In addition to 21 units of course work in Education and 9 units of free academic electives, a total of 45 units must be devoted to courses in two secondary school teaching areas and their corequisites. The specific teaching subjects and courses which may be chosen are shown below. Some freedom is possible in dividing the 45 units into the two teaching areas but in no case may fewer than 15 units be taken in one nor more than 24 units in the other. For instance, if English and Geography are chosen, the 45 units may be divided as follows: English 24 units, Geography 15 units, and Linguistics (the corequisite) 6 units; or English 21 units, Geography 18 units and Linguistics 6 units; or the number of units devoted to English and Geography may be reversed. In some science combinations where up to 15 units of corequisites are required only 15 units in each teaching area may be possible.

Where one Honours Course in a teaching area is chosen, corequisites to make up the 45 units will be specified by the Faculty and the Department concerned.

Only with the prior permission of the Dean may exceptions be granted to any of the following subject and course requirements. Courses numbered 100 and 200 are normally taken in the first and second years and not more than nine units of courses numbered below 300 may be taken in third and fourth years. (See also the Departmental requirements.)

Art

First and Second Years: English 100, 200 or 201; Art 100 or Fine Arts 101, Fine Arts 300.

Senior Years: Fine Arts 301, 302 and any one of the following groups; Fine Arts 305 and 401, or 401 and 402, or 305 and 405.

Biological Sciences

First and Second Years: Biology 150, Chemistry 100 or 102, English 100, Mathematics 120 or 121, Physics 101 or 103.

Third and Fourth Years: Biology 332/3, Biology 320, Botany 331, Biology 402 or Zoology 305, *one elective.

*Your attention is drawn to Zoology 202 and Botany 205.

There will be no elective in the Biology teaching area where Biology and Chemistry or Biology and Physics are combined, or where Biology is a minor.

Chemistry

First and Second Years: Chemistry 102, 224, 233; English 100; Mathematics 120 or 121, 220 or 221; Physics 101, 212.

Senior Years: Chemistry 344 and 326 or 331-334. If 18 units of Chemistry are elected both 326 and 331-334 must be taken.

English

First and Second Years: English 100, 200; Linguistics 100 or 210, and 390.

Senior Years: English 400, 434, 437. Up to nine additional units of English 413, 427, 436, 430 or 431, 429 or 435, may be taken.

French

First and Second Years: English 100, 200; French 180, 280, 290.

Senior Years: French 302 and three to twelve units numbered above 400.

Geography

First and Second Years: English 100 and 200 or 201; Geography 101, 201 or 203, and 204.

Senior Years: Geography 301 and one of 441, 442 or 443. Up to nine additional units of Geography 302, 304, 305, 307, 308, 309, 310, 312, 401, 403, 405, 406, 408, 410, 411, 412 or 445 may be taken, of which at least one must be a regional course.

German

First and Second Years: English 100, 200; German 100 or 140, 260, 290.

Senior Years: 302 and three to twelve units of courses numbered 400 or higher.

History

First and Second Years: English 100 and 200 or 201; History 101 or 200, 102, 201.

Senior Years: 304, 311 or 411. Up to nine additional units of courses numbered 300 or 400 may be taken.

Industrial Education

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. Jupp 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 100 or 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: English 100, 200; six units of junior Latin courses in sequence including Latin 240.

Senior Years: nine to twelve units of Latin courses numbered above 300. An additional three to six units of Classical Studies or Greek may be taken.

Mathematics

First and Second Years: English 100; Mathematics 120, 220, 222.

Senior Years: Mathematics 330, 337. Up to nine additional units of courses numbered above 300 may be taken. Students are urged to seek advice in the selecting of these additional courses.

Physical Education

First and Second Years: Biology 150; English 100; Physical Education 140, 141, 240; Anatomy and Physiology (course number to be determined).

Third Year: Physical Education 340, 341, 342.

Fourth Year: To be arranged.

Physics

First and Second Years: English 100; Mathematics 120 or 121, 220 or 221, 330 or 331; Physics 101, 211, 212.

Senior Years: 312, 322 or 413. Up to six additional units of Physics may be taken. Students are urged to seek advice in selecting these additional courses.

Social Studies (24 units only)

Students who select geography and history sequences will be ultimately prepared to teach only one secondary school subject, social studies. However, by selecting the following social studies sequence and choosing an additional area such as English or a modern language, students will be better able to accept the normal teaching assignment of two secondary subjects.

First and Second Years: English 100 and 200 or 201; Geography 101, 201 or 203, and 204; History 101 or 200, 102, 201.

Third and Fourth Years: Six units selected from the following courses: Geography 301, 302, one of 441, 442, 443, History 304, 311, 411.

Other Teaching Areas

Students may also specialize in Music, Russian, Spanish and Theatre. However, as the University Senate has not yet approved all the required courses in these areas, permission must be obtained from the Dean before planning programmes in them.

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.

Text: Mouly, *Psychology for Effective Teaching*, 1961.

(3-0; 3-0)

197. (0) **Seminar and Practice Teaching**

One hour per week seminar. Observation and participation in elementary schools. Demonstration lessons and field trips as arranged. Individual tuition from faculty adviser. Two-week post-sessional practicum (see page 143).

198. (0) **Seminar**

One hour per week for students registered in First Year of B.Ed. Secondary programme.

Text: To be announced.

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: To be announced.

Two hours a week for one term.

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: To be announced.

Three hours a week for one term.

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.

Text: Anderson, Paul, *Language Skills in Elementary Education*, 1964. (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.

Text: Anderson, Paul, *Language Skills in Elementary Education*, 1964. (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: Dayer, Victor P., *Fitness for Elementary School Children Through Physical Education*, 1965.

(1½-0; 1½-0)

297. (0) **Seminar and Practice Teaching**

For students registered in the "Professional" Year, Elementary Programme.

Text: *Manual of School Law*.

298. (0) **Seminar**

For students registered in the Second Year, Secondary Programme.

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)

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)

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., and Hall, I. N., *Psychology of Adolescence*, 6th Eds., 1965. (3-0; 3-0)

398. (0) **Seminar**

For students registered in Third Year, Secondary Programme.

400. (3) **Philosophy of Education**

This is an introductory course dealing with the philosophical foundations of Education and their implications for curriculum and instruction in the schools.

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

401. (3) **Theoretical Bases of Educational Psychology**

(May not be offered 1966-67). (3-0; 3-0)

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 subjects.

The following Education 404 courses are offered in 1966-67: Biology and General Science, English, French, Geography, German and Social Studies, History and Social Studies, Latin, Mathematics, Physics and General Science.

Texts: In all Ed. 404 courses students will be required to purchase the appropriate Secondary Programmes of Study. These will be announced.

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.

Ed. 404 (Physics): Livesey *et al*, *A Laboratory Course in Physics*, Books I and II. Others to be announced.

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 1966-67).

407. (3) Introduction to the Study of Exceptional Children

A course covering all groups of exceptional children — definitions, diagnosis, classification and treatment. (3-0; 3-0)

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. (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*, 1965. (3-0; 0-0)

411. (3) Guidance and Counselling Services In Schools

An introduction to guidance principles and practices.

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

415. (3) Developmental Reading

The problems of teaching reading, grades I-VII; the nature and psychology of reading; the basic skills and abilities; evaluating reading, remedial reading. (3-0; 3-0)

417. (3) Educating the Slow Learner and the Emotionally Handicapped

(Not offered in 1966-67).

420. (3) Educating the Mentally Retarded

(Not offered in 1966-67).

430. (3) History of Education

Development of educational theory and practice from the time of ancient Greece to the present.

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

435. (1½) 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: To be announced. (0-0; 3-0)

460. (3) **An Introduction to School Administration**

(Not offered in 1966-67).

461. (3) **Educational Diagnosis and Remedial Instruction**

A study of all factors influencing achievement both in the group and for the individual, along with methods of appraisal and interpretation. Consideration will be given to general principles of remedial work and their application to specific subject areas at all levels within the school. (3-0; 3-0)

470. (3) **Educational Sociology**

(May not be offered 1966-67). (3-0; 3-0)

498. (0) **Seminar**

For students registered in Fourth Year, Secondary Programme.

499. (0) **Seminar and Practice Teaching**

For students registered in Fifth Year, Secondary Programme.

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*, 1962. (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 must 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)

MUSIC

101. (3) **Elementary Theory**

This course includes a study of diatonic harmony, ear training and score analysis.

It is the first required course for the Music Major and should be taken at the earliest possible opportunity by students planning to take a Music Major in either the elementary or secondary programme.

Prerequisite: Previous music training satisfactory to the Music Section of the Faculty of Education.

Text: Ottman, *Elementary Harmony*, 1961. (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)

201. (3) **Intermediate Theory**

A continuation and expansion of the material studied in Music 101, this course includes a study of chromatic harmony, modulation and elementary arranging.

This is a required course for the Music Major and is prerequisite to senior courses in both elementary and secondary programmes. It should be taken at the earliest opportunity for students planning to take a Music Major.

Prerequisite: Music 101 or equivalent.

Text: Ottman, *Advanced Harmony*, 1962. (3-0; 3-0)

Senior Courses: See pages 144 and 151.

PHYSICAL EDUCATION

1. Students planning to enter P.E. 140, 141 are required to provide a medical certificate based upon a full medical examination taken within three months prior to registration. **Medical cards must be sent in by September 10 and marked "P.E. Major" in the line headed "Faculty" on the card.**

2. Students will also be required to demonstrate a reasonable degree of proficiency in physical skills and a high level of physical fitness in a pre-test scheduled in the first week of the session.

3. Students specializing in physical education should have taken secondary school chemistry.

4. Regulation uniforms, obtainable at the University Bookstore, are required by students specializing in physical education.

140. (0) **Physical Education Activities I**

Gymnastics I, swimming, rhythmic, basic activities. Membership on a University team is considered important.

Prerequisite: See page 156 for requirements regarding medical certificate and fitness and skills test.

Text: Canadian Red Cross Society, *Instructor's Guide and Reference*. (0-3; 0-3)

141. (3) **Introduction to Physical and Health Education**

Orientation to the profession; aims and objectives of physical education; programme of professional preparation; professional opportunities; basic concepts of the body in movement; health instruction in schools; health and safety aspects of physical education; relationship of physical education to health, recreation and safety education, and athletics.

Text: Nixon, John E., with Flanagan and Frederickson, *An Introduction to Physical Education*. Sixth Edition 1964. (3-0; 3-0)

240. (0) **Physical Education Activities II**

Track and field I, grass hockey, softball, badminton and basketball. Officiating on game situations is stressed.

Text: The Canadian Badminton Association, *Handbook 1964*. Others to be announced. (0-3; 0-3)

340. (0) **Physical Education Activities III**

Gymnastics II, soccer (M) or rhythmic (W), volleyball, tennis. Participation as player, coach, or official is recommended.

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

341. (1 ½) **Kinesiology**

Action of muscles involved in fundamental movements, gymnastics and athletics, science of muscular movement.

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

342. (1 ½) **History and Principles of Physical Education**

Interpretative study and analysis of the principles and practices of physical education through their historical development; current trends; social and cultural implications; relationship to education.

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

GRADUATE COURSES

Students should consult the Faculty of Education concerning the courses to be offered in any particular year.

500. (3) **Psychology of Classroom Learning**

501. (3) **Psychology of Individual Differences**

502. (3) **Measurement and Evaluation**

503. (3) **Methods of Educational Research**

504. (3) **Seminar in Human Development**

510. (3) **Seminar in Philosophy of Education**

590. (3) **Special Problems**

599. (Credit to be determined) **Thesis**

School of Graduate Studies

SCHOOL OF GRADUATE STUDIES

Through the Senate Committee on Graduate Studies, the School of Graduate Studies of the University of Victoria administers programmes leading to the degrees of:

Master of Arts
Master of Science
Doctor of Philosophy

Members of the Senate Committee on Graduate Studies are:

Chairman

M. H. Scargill, Head, Department of Linguistics

Representing Education

G. P. Mason, Faculty of Education

R. H. J. Monk, Faculty of Education

Representing the Humanities

J. D. Peter, Department of English

P. L. Smith, Chairman, Department of Classics

Representing the Sciences

D. V. Ellis, Department of Biology

R. M. Pearce, Department of Physics

Representing the Social Sciences

B. H. Farrell, Head, Department of Geography

S. W. Jackman, Department of History

Ex-officio

D. W. Halliwell, Head Librarian

R. R. Jeffels, Registrar and Dean of Student Affairs

M. G. Taylor, President

F. T. Tyler, Dean, Faculty of Education

A. J. Wood, Dean, Faculty of Arts and Science

Secretary

R. J. P. Ferry, Admissions and Awards Officer

REGULATIONS OF THE SCHOOL OF GRADUATE STUDIES

The School of Graduate Studies of the University of Victoria administers, through the Senate Committee on Graduate Studies, programmes leading to the degrees of Master of Arts, Master of Education*, Master of Science, and Doctor of Philosophy. Degrees may be taken in one department or school or faculty, or in a combination of them.

General Requirements

The general requirements apply to all students registered in the School of Graduate Studies. Special regulations are described under the headings: "Special Regulations for the Master's Degree" and "Special Regulations for the Degree of Doctor of Philosophy."

Qualifications for Admission

The requirement for admission to the School of Graduate Studies is an academic standing acceptable to the School of Graduate Studies and the department or school or faculty concerned. In general, this will be a baccalaureate degree from a recognized university, or its equivalent, with a "B" average (70%) in the work of the last two years.

NOTE 1: Students whose native language is not English will be required to provide evidence that their knowledge of English is sufficient to allow them to proceed with their studies.

NOTE 2: Students who do not qualify for admission and who intend to register at the University of Victoria as unclassified students to make up deficiencies should consult with the School about their proposed programme of studies as unclassified students.

* The degree of Master of Education is not offered at the present time.

Categories of Students

Students are admitted to the School of Graduate Studies in one of the following categories:

1. *Candidate for a Master's Degree*

2. *Provisional candidate for the degree of Doctor of Philosophy*

All doctoral students are admitted as provisional candidates until they have passed their candidacy examinations, at which time they are automatically classified as candidates for the degree of Doctor of Philosophy.

(See Item No. 6 of the *Special Regulations for the degree of Doctor of Philosophy*)

3. *Special Graduate Student*

Special graduate students are students who are admitted to the School of Graduate Studies to take graduate courses for credit at another university. Such students must prove that they have the qualifications for admission to the university at which they intend to apply their credits.

NOTE: Except as specified in item 2 above, it is the student's responsibility to request the School of Graduate Studies to change his category.

Application for Admission

Applications for admission must be submitted as early as possible on forms obtained from the School of Graduate Studies. No assurance can be given that applications received after July 1 can be processed in time to permit registration. A graduate of another university must arrange with that institution to forward two transcripts of his academic record to the School of Graduate Studies at the time of application. Also, at the same time, all applicants must arrange to have two letters of recommendation sent to the School of Graduate Studies on forms supplied by the School. All applications must be accompanied by an application fee of \$5.00 which is not returnable and which will be applied to tuition fees if the candidate is admitted.

Registration

All students admitted to the School of Graduate Studies must register in person on the date specified for such registration and announced by the Office of the Registrar. All students admitted to the School of Graduate Studies must thereafter maintain continuous registration during the period of their programmes by registering in person or by mail once a year at the time of registration.

Academic Standards

Students registered in the School of Graduate Studies must maintain at least a B- in each course.

Students failing to meet this standard can be required to withdraw from the School.

Dissertation or Thesis

Regulations covering the format of dissertation or thesis may be obtained from the School of Graduate Studies.

Special Regulations for the Master's Degree

1. *Time Limit*

Normally, a student proceeding toward a Master's degree will be required to complete all the requirements for the degree within five years (sixty months) from the date of his first registration in the School of Graduate Studies. A degree will in no case be awarded in less than seven months from the time of that registration.

2. *Residence Requirements*

There are no fixed residence requirements at the University of Victoria for students proceeding to a Master's degree. However, see item 3 below.

3. *Course and Programme Requirements*

The minimum requirement for a Master's degree is the equivalent of 15 units or one full Winter Session of study.

NOTE 1: A maximum of 15 units of credit for course work will be granted in any twelve month period during which a student is in full time attendance at the University of Victoria. A maximum of 6 units of credit for course work will be granted in any twelve month period during which a student is not in full time attendance at the University of Victoria.

NOTE 2: A student with an honours baccalaureate degree will normally be able to obtain a Master's degree with 15 units or one full winter session of study.

4. *Research and Course Work*

Considerable variation is permitted in the balance between research and course work required for the degree, though most programmes should include a thesis based on research. Details of the programme are recommended by the Supervisory Committee to the School of Graduate Studies.

5. *Courses Taken at Other Institutions*

On the recommendation of the department concerned, the School of Graduate Studies may accept for credit in a graduate programme courses taken at other institutions. However, the major portion of the work must be completed at the University of Victoria.

6. *Supervisory Committee*

There shall be a Supervisory Committee of at least three members approved by the School of Graduate Studies, one of whom shall be from outside the department. The Committee shall recommend to the School a programme of studies; it shall examine the thesis if one is required; it may conduct other examinations; it shall recommend to the School of Graduate Studies that a degree be awarded to a successful candidate.

7. *Examiner from Outside the Department or School or Faculty*

The School of Graduate Studies shall appoint an examiner from outside the department, who may be the outside member of the Supervisory Committee (see item 6 above). Examinations for the Master's degree are open to interested members of faculty as observers.

Special Regulations for the Degree of Doctor of Philosophy

The doctoral programme requires the planning and completion of independent and original work leading to an advance in knowledge in the student's chosen field or fields of study. In addition, a broad knowledge of the field or fields of study must be demonstrated.

1. *Time Limit*

Normally, a student proceeding to the degree of Doctor of Philosophy will be required to complete all the requirements within seven years (eighty-four months) from the date of his first registration in the doctoral programme. A degree will not be awarded in less than two years (twenty-four months) from the time of that registration.

2. *Residence Requirements*

A student proceeding to the degree of Doctor of Philosophy must spend at least two winter sessions at the University of Victoria, except that a student entering the doctoral programme with a Master's degree may have this residence requirement reduced to one winter session.

3. *Course and Programme Requirements*

The minimum requirement for the degree of Doctor of Philosophy is the equivalent of two full winter sessions of study beyond the Master's level or three full winter sessions of study beyond the Bachelor's level, and satisfactory completion of the prescribed programme.

4. *Supervisory Committee*

A student's programme shall be under the direction of a Supervisory Committee of at least three members, approved by the School of Graduate Studies. The Chairman of the Committee shall be a faculty member under whose supervision the student is carrying out his major research. One or more members of the Committee shall be chosen by the School of Graduate Studies from outside the department or school or faculty in which the major research is being carried out. The Committee shall recommend the programme to the School of Graduate Studies.

5. *Language other than English*

A student will normally be required to demonstrate a reading knowledge of at least one language other than his own.

6. *Candidacy Examinations*

Within two years of registration as a doctoral student and at least six months before the final examination, a provisional student must pass a candidacy examination in subjects relevant to the general field of his research and such other examinations, written or oral, or both, as may be required by his Supervisory Committee.

7. *Dissertation*

The results of the candidate's research must be presented in a dissertation satisfying the general requirements of the School of Graduate Studies. The material must be of sufficient merit to meet the standards of scholarly publications. Where the research justifies it, the degree of Doctor of Philosophy may be awarded for the dissertation alone.

8. *Examining Committee*

The dissertation shall be assessed by an Examining Committee which will consist of the Supervisory Committee and at least two other examiners, one of whom shall be an external examiner selected by the School of Graduate Studies in consultation with the department or school or faculty primarily concerned and who is an authority in the special field of research. The final oral examination, based largely on the dissertation, shall be conducted by the Examining Committee, which will recommend a successful candidate for the degree of Doctor of Philosophy to the School of Graduate Studies. The Chairman of the Senate Committee on Graduate Studies or his nominee will act as Chairman at the final oral examination. The examinations for the degree of Doctor of Philosophy are open to members of faculty.

Notice of examinations shall be communicated to all members of faculty at least fourteen days prior to the date of examinations.

NOTES:

(1) The regulations stated above have been approved by the Senate of the University of Victoria. The students registered in the School of Graduate Studies are subject to such other general regulations of the University as the Senate or Board of Governors, on the recommendation of the Senate Committee on Graduate Studies, may wish to apply.

(2) These regulations may be modified at any time with the approval of the Senate or the Board of Governors on the recommendation of the Senate Committee on Graduate Studies.

DEPARTMENT OF BIOLOGY

The Department of Biology offers courses of studies leading towards the degree of Master of Science. Facilities are available for programmes in the following botanical and zoological fields:

- Marine Biological Sciences
- Ecology
- Physiology
- Morphology
- Cellular and Developmental Biology
- Systematic Biology

Candidates may also be accepted for programmes leading towards the degree of Doctor of Philosophy.

DEPARTMENT OF CHEMISTRY

In addition to the general regulations governing the granting of advanced degrees, as stated on pages 160-163, the following special regulations are applicable:

1. *Orientation Examinations*

These examinations are held each year at the beginning of the academic year. All students proposing a graduate programme in the Department of Chemistry will be required to take this examination, on the results of which will be based the Department's recommendation as to which courses are required. Students showing deficiencies in their knowledge of fundamental chemistry will be required to make good the deficit by approved reading or by taking and passing the appropriate undergraduate courses. Normally one year will be allowed for the removal of such deficiencies. Failure to achieve a minimum of B- may lead to a recommendation that the student be asked to withdraw by the Senate Committee on Graduate Studies.

2. *Lecture Courses*

All graduate students will be required to take Chemistry 500 (Research Techniques) in their first year, and Chemistry 509 (Seminar) throughout their period of registration. Other courses will be prescribed by the Department according to the needs of the candidate, either from courses offered by the Department of Chemistry, or from courses offered by other departments.

3. *Language Requirement*

Every candidate for the M.Sc. will be required to demonstrate to the Department of Chemistry his ability to translate into English scientific papers in one of the following languages: German, Russian, French or other as approved by the Department. Candidates for the Ph.D. will be required to demonstrate this ability in two languages other than English, as approved by the Department.

4. *Research*

Successful completion of a research study is an essential part of the programme required for an advanced degree in Chemistry. The research project may form the major requirement. The candidate is advised to choose carefully his area of greatest interest before expressing a desire to work with a particular faculty member.

DEPARTMENT OF GEOGRAPHY

The Department of Geography offers courses of study and research leading to an M.A. degree. Individual programmes may be arranged in economic, urban, historical, physical and regional geography with emphasis on Canada, especially Western Canada and the Pacific Basin.

DEPARTMENT OF HISTORY

For the year 1966-67 the Department is offering studies in the two-year Master's of Arts. Facilities are available for programmes in the following areas:

British History
Western Canadian History
European Intellectual History

For the year 1966-67 the Department is offering studies in the two-year Masters programme only. In the year 1967-68 candidates will be admitted to the one-year as well as to the two-year programme.

DEPARTMENT OF LINGUISTICS

The Department of Linguistics offers programmes of study and research leading to the degree of Master of Arts in the following areas:

1. Canadian English Language.
2. Descriptive Linguistics, especially with application to indigenous languages of the Northwest.

DEPARTMENT OF PHYSICS

The Department of Physics offers programmes of study and research, leading to the degree of M.Sc., in a number of fields, including those listed below. Students may also be accepted in certain areas of study leading to the degree of Ph.D. The graduate courses offered are listed under Faculty of Arts and Science, Department of Physics.

Astrophysics

Spectroscopic investigations of the cooler stars in co-operation with, and using the facilities of, the Dominion Astrophysical Observatory.

Physics of Fluids

Steady and Unsteady Flow — Experimental and theoretical studies of shock waves and flows in shock tubes.

Underwater Acoustics — Model studies of reverberation and other acoustic problems.

Geophysics

Geomagnetism — Experimental and theoretical investigation of geomagnetic variations and related topics.

Upper Atmospheric Physics — Study of the airglow and related phenomena.

Nuclear Studies

Cosmic Rays — Continuous monitoring of low energy nucleonic component for IQSY and atmospheric correlations using an IBM-1620 computer.

Nuclear Magnetic Resonance — Nuclear spin relaxation in liquids and solids.

TRI-U Cyclotron — Joint design study of 500 MeV, 20 μ a sector-focussed cyclotron with University of British Columbia and Simon Fraser University.

Close contact is maintained with the Department of Astronomy, the Pacific Naval Laboratory, the Victoria Magnetic Observatory, and the Dominion Astrophysical Observatory.

DEPARTMENT OF PSYCHOLOGY

The Department of Psychology offers programmes of study leading to the degrees of M.A. and M.Sc. in the following areas: general-experimental psychology, personality-social psychology, clinical psychology, neuropsychology. Candidates may also be accepted for programmes of study leading to the degree of Ph.D.

FACULTY OF EDUCATION

The Faculty of Education offers programmes of study leading to the degree of M.A. in the following areas:

Educational Psychology
Educational Administration
Curriculum and Instruction

Pre-Professional Education

PRE-PROFESSIONAL EDUCATION

The material which follows is only a *guide* to professional education at other universities, and students must not assume that completion of these courses will grant them automatic admission. Students who are seeking advice about professional education should see the Registrar or the Director of Counselling and Testing, University of Victoria.

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:
Biology 150
Chemistry 102
English 100
Mathematics 120 or 121
elective

APPLIED SCIENCE

Suggested courses:
English 100
Mathematics 121
Chemistry 102
Physics 101
An elective

ARCHITECTURE

Suggested courses:
English 100, 200
Mathematics 120 or 121
Physics 101
Art 120

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
Mathematics 120 or 121
Chemistry 102
Biology 150, or Physics 101
An elective (Language recommended)

HOME ECONOMICS

Suggested courses:
English 100
Chemistry 100 or 102
Physics 103, if Physics 91 not
already taken
Mathematics 120 or 121
Biology 150
Psychology 100

FORESTRY

Suggested courses:
Biology 150 or Physics 101
Chemistry 100 or 102
English 100
Mathematics 120 or 121
one additional course

LAW

Suggested course:
First Three Years Arts and Science

MEDICINE

Suggested courses:

English 100
Mathematics 120 or 121
Chemistry 102
Physics 101, or Biology 150
An option

NURSING

Suggested courses:

BSN
English 100
Chemistry 100 or 102
Mathematics 120 or 121
Biology 150
Approved elective

PHARMACY

Chemistry 102
English 100
Mathematics 120 or 121
Physics 101, or Biology 150
Approved elective

PHYSIOTHERAPY

Chemistry 100 or 102
English 100
Psychology 100
Mathematics 120 or 121
Biology 150

PSYCHOLOGY

Students wishing to enter a professional school of psychology are advised to complete the B.A. Honours or B.Sc. Honours programme in the Department of Psychology, University of Victoria.

SOCIAL WORK

Students interested in professional social work are advised to complete a degree in the Faculty of Arts and Science.

LABORATORY TECHNICIAN

English 100
Mathematics 120 or 121
Biology 150
Chemistry 100 or 102
elective

*Scholarships, Fellowships,
Bursaries, and Prizes*

SCHOLARSHIPS, FELLOWSHIPS, BURSARIES AND PRIZES

GENERAL REGULATIONS

All inquiries concerning material in this section should be directed to Mr. Ron J. P. Ferry, Admissions and Awards Officer, Registrar's Office.

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 Senate Committee on Scholarships reserves the right to limit the amount of money retained by a student and/or to reassign scholarships (by reversion).

The date of application for scholarships is April 30, unless otherwise indicated.

These sections of the Calendar show scholarships, prizes, and bursaries grouped under certain headings.

1. Awards available for which no application is necessary: selection of the recipients is made through the Senate Committee on Scholarships. See pages 179 to 184.
2. Awards for which application must be made to the Senate Committee on Scholarships. See pages 185 to 187.
3. Government of British Columbia Scholarships. See page 188.
4. Awards available to students who have completed University Entrance and are now proceeding to University of Victoria. See pages 189 to 193.
5. Scholarships for which applications must be made through U.B.C. See pages 194 and 195.
6. Bursaries requiring application. See pages 196 to 198.
7. Awards made by other Institutions. See pages 199 to 208.
8. Loan Funds. See page 209.

SECTION 1

AWARDS FOR WHICH NO APPLICATION NECESSARY

THE GOVERNOR-GENERAL'S MEDAL — The Governor-General's Medal is awarded annually to the candidate in the Faculty of Arts and Science, registered for the B.A. or B.Sc. degree, who stands at the head of the graduating class on the basis of the degree average.

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 PRESIDENT'S SCHOLARSHIPS — A number of scholarships up to the value of \$500.00 each will be awarded annually by the President upon the advice of the Committee on Scholarships. Awards will be made in Arts, Sciences, Social Sciences and Education, on the basis of distinction in scholarship. In making the awards, the President and the Committee will take into account any other scholarships candidates have received.

PERCY H. ELLIOTT MEMORIAL SCHOLARSHIP — One hundred and thirty dollars (\$130) awarded to a student of outstanding merit and promise in one specific field of study, who has also a high general academic standing and qualities of character indicating worthiness to hold the scholarship. The scholarship is awarded, upon the recommendation of the Committee, to a student in the First or Second Year and, unless service in the Armed Forces intervenes, proceeding immediately towards a degree.

THE UNIVERSITY OF VICTORIA FACULTY ASSOCIATION SCHOLARSHIP — Two hundred dollars to be awarded annually to further the education of a student of good academic standing.

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.

THE WESTAD SCHOLARSHIP — This scholarship of \$250.00 is awarded annually for general proficiency to a student entering third or fourth year at the University of Victoria.

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 SCHOLARSHIPS — Two scholarships, valued at \$150 each, are donated for the purpose of stimulating the study of the History of Canada.

MACMILLAN, BLOEDEL AND POWELL RIVER LTD. 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 Biology 150 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 \$1,500 to be awarded for 1966-67 on terms to be arranged.

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 to the student winning highest standing in Latin (Latin 100, 140), or in Greek, or in Latin and Greek, in the first year, and continuing with the subject (or subjects) in the second year at University of Victoria.

OCEAN CEMENT LIMITED, B.C. CEMENT DIVISION 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 MADAME SANDERSON MEMORIAL SCHOLARSHIP — Fifty dollars (\$50) offered annually to a promising student for excellence in English and French of the Second Year.

MATTHEW COWAN ANNUAL SCHOLARSHIP — Approximately one hundred and fifty dollars (\$150) awarded annually to a promising student with high academic standing. The winner must continue at the University of Victoria.

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 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 ANDREW SHERET, LTD. SCHOLARSHIP — One hundred and fifty dollars (\$150) per year for the sessions 1965-66, 1966-67, 1967-68 to be awarded to students achieving high academic standing and continuing their education at the University of Victoria.

THE READ JONES CHRISTOFFERSEN LTD., CONSULTING ENGINEERS SCHOLARSHIP — Two hundred dollars (\$200) awarded annually to a deserving and promising student of the University of Victoria who is continuing studies at the University of Victoria.

THE PROFESSIONAL MEN'S GARDEN CLUB OF VICTORIA SCHOLARSHIP — One hundred dollars (\$100) awarded annually to a third year student in Botany on the basis of academic attainment. The award is to be made on the recommendation of the Department of Biology.

THE ADELINE JULIENNE DELOUME SCHOLARSHIPS — One hundred dollars (\$100) each to be awarded to the first year female student and the first year male student attaining the highest grades in French in first year university and intending to continue studies in French at the University of Victoria.

THE COMITAS CLUB SCHOLARSHIP — Fifty dollars (\$50) to be awarded to a promising and deserving student from first, second or third year in the Faculty of Education who is returning for the following year.

THE WOODS SCHOLARSHIPS — Awarded annually to promising students at the University of Victoria who intend to pursue studies as undergraduates at the university or as post-graduate students at other universities or educational institutions or at any industrial or commercial concern engaged in the field of electrical engineering or in any allied field in the physical sciences. The scholarships are of varying amounts.

ROBERT BURNS McMICKING CHAPTER I.O.D.E. SCHOLARSHIP — Five hundred dollars (\$500) to be awarded for general proficiency to a student who is continuing studies at the University of Victoria.

THE H. O. ENGLISH SCHOLARSHIP — One hundred and seventy-five dollars (\$175) to be awarded annually for general proficiency and high standing in practice teaching to a student who is returning for further study in the Faculty of Education.

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 University studies.
- 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, and preference will be given to a student studying in the general area of the basic medical sciences.
- RITHEI CONSOLIDATED LIMITED BURSARY — One hundred dollars (\$100) to be offered to a promising student registered at University of Victoria and continuing academic studies.
- 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 1966-67.
- VICTORIA ROTARY CLUB SCHOLARSHIP — Two hundred and fifty dollars (\$250) to be awarded to the student taking the highest standing in First Year English.
- FREEMAN F. KING SCHOLARSHIP — Two hundred and fifty dollars (\$250) awarded to a student entering Third or Fourth year, preferably the latter, and preparing for a career in natural history, considered in a broad sense. The award is to be based on high academic standing and demonstrated interest in field studies, especially in terrestrial biology. The recipient will be selected from candidates recommended by Biology Department staff members.
- 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.
- 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 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.
- 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 DON INGHAM MEMORIAL SCHOLARSHIP — This scholarship is awarded annually by the Victoria Newspaper Guild, Local 223, A.N.G., in memory of Don Ingham, widely known journalist and amateur astronomer. The scholarship will be awarded to the student in Astronomy 120 who stands first in that course and who is returning to the University of Victoria and planning to take further courses in Astronomy.

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.

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 made a valuable contribution to student life.

ROSE'S LIMITED JEWELLERS WATCH — To be awarded annually to the leading student in the Faculty of Education at University of Victoria.

CANADIAN DAUGHTERS' LEAGUE, ASSEMBLY No. 5 — GERTRUDE M. RALSTON MEMORIAL BURSARY — One hundred dollars (\$100) awarded to a deserving student, preferably one in Canadian history.

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.

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 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.

ADDITIONAL AWARDS

The following awards are made annually to students for distinguished accomplishment:

Adelphi Book Shop Prize
First Year English Book Prize
Gwen Downes Memorial Book Prize
The Haunted Bookshop Book Prize
The Denton Memorial Book Prize
The French Government Book Prizes
The Spanish Government Book Prize
B.C. Historical Association Book Prizes
Book Prizes for Excellence in Shakespeare Studies
G. B. Stark Memorial Slide Rule Prize
French Government Medal

SECTION 2

SCHOLARSHIPS FOR WHICH APPLICATION MUST BE MADE AT UNIVERSITY OF VICTORIA

Applications for these awards must be made on special forms, available in the Registrar's office, through the Admissions and Awards officer.

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—One hundred dollars (\$100) awarded annually to a first year student who is the child of a veteran of World War I or World War II. The recipient of the Scholarship must be recommended for general proficiency and worth by the Faculty, and must continue university work into the second year.

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 must be accompanied by a certificate from the Cadet unit concerned. 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 these 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 to the Awards Officer, Registrar's office not later than February 15.

THE VICTORIA MEDICAL SOCIETY SCHOLARSHIP II—Five hundred dollars (\$500) is available to a student who wishes to pursue a career in Medicine, has completed at least two years of study at the University of Victoria, and is proceeding to a medical school in Canada next September. Candidates must possess those qualities of character and mind which will lead to success as a medical practitioner, and must have demonstrated sound academic achievement, with at least Second Class standing. Financial need will also be considered. Candidates must provide written acceptance of their entry into an approved medical school. The award will be made in June by a committee consisting of representatives from the University and the Victoria Medical Society Scholarship Committee, and will be paid through the Bursar of the medical school involved. The successful candidate will be notified in June. The award will be forfeited if the candidate has not entered

medical school by January 1967, at the latest. Application forms are available from the Office of the Registrar and must be returned to the Awards Officer before March 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 made by the Senate Committee on Scholarships.

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 1966-67 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, 1966.

THE CANADIAN CANCER SOCIETY, BRITISH COLUMBIA DIVISION BURSARY — This bursary of five hundred dollars (\$500), the gift of the Canadian Cancer Society, British Columbia Division, will be available for a worthy and deserving student who is a bona fide pre-medical student, or who will have already completed the pre-medical stage of his training and will be entering medical school. To be eligible for this award an applicant must be a graduate of a high school in British Columbia. Those students who are assisted, although not required to undertake a legal obligation, are asked to assume a moral responsibility to reimburse the fund after completion of their medical studies. Application must be made before August 1 on forms available in the Registrar's Office.

THE CANADIAN UNION OF PUBLIC EMPLOYEES SCHOLARSHIPS — The C.U.P.E. will make available the sum of five hundred dollars (\$500) to provide scholarships for two deserving and promising students at the University of Victoria who are continuing their studies here. The selection will be made on the basis of academic standing. Preference will be given to the sons or daughters or members of the C.U.P.E. In each case, the student must make application for these scholarships.

ALCAN SCHOLARSHIP — Granted annually on the basis of financial need, character, and ability. The scholarship has a value of five hundred dollars (\$500) and is supplemented by a grant of three hundred dollars (\$300) to the University. The Scholarship is open to students in Honours or Science Major programmes in Chemistry, Mathematics, Metallurgy and Physics, or students in courses leading to a degree in Engineering. The recipient of the scholarship may apply for it in the following year and will be considered on equal basis with the other students. The recipient is in no way bound to enter the donor's employ nor is the donor committed in any way to find employment for the student after graduation.

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 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 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 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 General 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 Scholarships, University of Victoria.

SECTION 3

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 1966-67 will be considered on the basis of standing received in the final examinations (excluding supplementals) in a full programme for the session 1965-66 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 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.

Students already registered at University of Victoria must request application forms from the Registrar's Office; these forms are not mailed automatically with statements of marks.

See page 196 for Government Bursaries.

SECTION 4

THE FOLLOWING SCHOLARSHIPS ARE OPEN TO STUDENTS WHO HAVE COMPLETED UNIVERSITY ENTRANCE AND ARE PROCEEDING TO UNIVERSITY OF VICTORIA

PRESIDENT'S SCHOLARSHIPS — Five scholarships of \$400 each to be known as the University of Victoria Entrance Scholarships, for British Columbia secondary school graduates who are entering the University of Victoria in September 1966. Awards will be based upon high standing in a full set of Government examinations written in June 1966. Candidates will make application to the Chairman of the Committee on Scholarships, not later than June 30. Recipients will be selected by the Scholarship Committee and awards will be announced shortly after the release of the examination results in July.

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 Examinations, 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 examinations and under the same conditions. Should the student, in either case, be awarded a scholarship from any other source, the Club Scholarships shall then revert to the student having the next highest standing.

UNIVERSITY OF VICTORIA ALUMNI SCHOLARSHIPS — Contributions to the Alumni Annual Giving Campaign and other funds have made possible the institution of five Municipal Scholarships, in the amount of \$250 each. These scholarships are available to students, writing a full set of Department of Education examinations in June, who are proceeding from Grade XII (High School Graduation, University Programme) to the University of Victoria.

One scholarship will normally be awarded in each of the municipalities of School District No. 61 (Greater Victoria). One scholarship will normally be awarded in the area included in School Districts Nos. 62 and 63 (Saanich and Sooke).

Winners will be selected by a special Alumni Screening Committee representing the University of Victoria and the Alumni Association.

Application forms may be obtained from School Principals. Completed application forms must be received on or before June 15 by the Awards Officer, University of Victoria, Victoria, B.C.

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 of British Columbia 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.

SECTION 5

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.

SECTION 6

BURSARIES REQUIRING APPLICATION

TUITION ASSISTANCE BURSARY FUND (University of Victoria)

In May 1965, the Board of Governors established a Tuition Assistance Bursary Fund. The Board expressed its concern about the possibility of certain qualified students not being able to attend the University because of serious financial difficulties.

Students who make application for assistance under this Bursary Fund are reminded:

- a) that the Fund is intended to assist students who are in serious financial difficulty;
- b) that students who come from families with a gross income in the range \$8,000-\$9,500 or more should not normally expect to receive assistance. Where there are special circumstances, appropriate consideration will be given, and each case will be judged on its own merits;
- c) that applicants may be asked to interview a committee or an officer of the University;
- d) that, in general, only those students who are registered for a full programme of courses are eligible for assistance.

Application forms are available in the Registrar's office.

The completed application form should be returned by the dates published in the *Marilet* and posted on bulletin boards at intervals, to:

The Awards Officer,
Registrar's Office,
University of Victoria,
Victoria, B.C.

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.

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 C⁺ or who is required to write supplementals to obtain clear standing in a full year's work. Winners of the Company's Entrance Scholarships will not be permitted to receive a Company Bursary in the same year. All candidates must apply on the Special Bursary form, which may be obtained from the 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 SCHOLAR-

SHIPS — 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 B-, and need financial assistance.

SECTION 7

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 1966 must have passed his 19th birthday but not have reached his 25th birthday by October 1, 1966.

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, 1966, and, if elected, to go to Oxford in October 1967. 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 Association of Universities and Colleges of Canada, 75 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-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
1967-1968

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 Association of Universities and Colleges in Canada, 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 Association of Universities and Colleges in Canada, 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.

THE BRITISH AMERICAN OIL COMPANY LIMITED GRADUATE FELLOWSHIPS — Five Fellowships will be awarded for 1966-67, each fellowship is valued at \$4000: \$3000 to be paid to the successful candidate, and \$1000 to the department of the training university. Any resident of Canada who is a graduate of a Canadian university is eligible to apply. Fellowships are tenable in Canada in any field of study. Further information may be obtained from the Association of Universities and Colleges in Canada, 75 Albert Street, Ottawa. The competition closes March 1.

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.

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.

THE STEEL COMPANY OF CANADA: GRADUATE RESEARCH FELLOWSHIPS IN METALLURGY:

PURPOSE — The objective of the Fellowships is to encourage research in metallurgy in various universities across Canada.

PLAN — Four one-year Fellowships of \$3500 may be granted each year, \$2500 to be given to the individual and \$1000 to the University for the department in which research is undertaken. Students may attend only Canadian universities having a qualifying course in Metallurgical Research.

A fellow may not hold concurrently any other major awards.

ELIGIBILITY and ADMINISTRATION

1. The selected student must be a permanent resident of Canada, who is a graduate of a Canadian university or who will graduate from a Canadian university before the commencement of the academic year for which the award is made.
2. Fellowships are tenable for one year. Application for renewal may be made in succeeding years, but the Award may not be held for more than three years.
3. Fellowship renewals are additional to the four annual Fellowships.
4. Two copies of a thesis, or a reasonably detailed account of the work done, should be sent to the Director of Awards of the Canadian Universities Foundation who shall forward one copy to The Steel Company of Canada, Limited, Hamilton, Ontario.
5. The Fellowships will be awarded by a Committee appointed by the Canadian Universities Foundation.
6. The Company reserves the right to alter, amend or discontinue this plan, but Fellowships in effect at such a time will be completed in accordance with the regulations in effect when they were granted.

Information may be obtained from the Association of Universities and Colleges in Canada, 75 Albert Street, Ottawa. Applications are due by the end of February each year.

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.

THE CANADIAN INSTITUTE OF CHARTERED ACCOUNTANTS AWARDS:

1. **GRADUATE FELLOWSHIPS** — Fellowships will be available to chartered accountants now teaching at a Canadian university who are candidates for a graduate degree in business; or to chartered accountants who are candidates for a graduate degree beyond a first master's degree and who are studying with a view to a teaching career in Canada.

Fellowships to a maximum amount of \$2500 each will be awarded for one year. In particular cases a further grant of up to \$2500 may be made for a second year upon renewal of application.

2. **RESEARCH GRANTS** — Research Grants will be available to chartered accountants who are members of the teaching staff of a Canadian university to enable them to carry out research in accounting, auditing or other areas of importance to the accounting profession.

Grants to a maximum amount of \$2,500 each will be awarded each year to allow such teachers to devote a reasonable amount of time to their chosen project and/or to meet out-of-pocket expenses for books, travel, stenographic or other assistance in connection with the project. A renewal of grant may be applied for if warranted by the project.

A Graduate Fellowship or Research Grant may be held simultaneously with another scholarship, fellowship or similar award.

Applications, setting out the academic and professional background of the applicant as well as complete details of the academic course or research project planned, should be sent in triplicate before February 28 to: The Director of Research, The Canadian Institute of Chartered Accountants, Chartered Accountants Building, 69 Bloor Street East, Toronto 5.

Successful applicants will be notified of the terms of their award by April 30.

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); Nanaimo; 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 Dr. M. F. McGregor, University of British Columbia or from the Awards Officer, University of Victoria. These forms should be forwarded to the Honorary Secretary of the Foundation, c/o Canada Permanent Trust Co., 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.

CUS INTERREGIONAL SCHOLARSHIP EXCHANGE PLAN — Through this plan the Canadian Union of Students offers to Canadian students the opportunity to study for one year at a university in another part of Canada. An applicant must be under twenty-five, have completed at least one year in a Canadian University, and have obtained at least Second Class standing in the work of the session previous to the exchange year. The successful candidate does not pay fees to the exchange university. Applications may be obtained from the Registrar's Office in January.

THE WESTMINSTER REGIMENT ASSOCIATION SCHOLARSHIP — This scholarship of \$500, the gift of the Westminster Regiment Association, will be awarded annually to a worthy and deserving student who is continuing his or her formal education beyond secondary school in recognized institutions of higher learning in any place within Canada or outside Canada. To be eligible, applicants must be direct descendants, male or female, of a member of the Westminster Regiment Association, or a member of the Westminster Regiment CA(M) or one of those battalions which the Westminster Regiment perpetuates, i.e., the 47th, 104th or 131st. The applicant may be in his or her final year of secondary school or any year of post secondary study, and may be resident in any place within Canada or outside Canada. The basis of the award will be academic standing in previous studies and need of financial assistance. The Application for Scholarship Form is obtainable from the Scholarship Committee, The Westminster Regiment Association, Box 854, New Westminster, B.C. The cut-off date for applications is June 30.

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 BOBBY BAUER MEMORIAL AWARD — Beginning with the academic year 1966-67, the Bobby Bauer Memorial Foundation will make one or more awards annually to students demonstrating outstanding proficiency in hockey who qualify for admission to a full-time undergraduate course at a Canadian university.

Application should be made prior to August 31 on forms provided by the Foundation. A letter of reference from a person actively involved in hockey must accompany each application.

Inquiries and application should be sent directly to:

Bobby Bauer Memorial Foundation,
60 Victoria Street North,
Kitchener, Ontario.

SECTION 8

LOAN FUNDS

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 Awards Officer.

Canada Student Loans Plan — The purpose of the plan is to make bank loans available to students who need financial help to enable them to engage in full-time studies directed towards a degree or diploma at universities or other educational institutions above the high school level. The maximum that may be borrowed is \$1000 in any one year and not more than \$5000 in aggregate. Applicants must be full-time students. They must be Canadian citizens or must have lived in Canada for at least one year. Application forms are available in the Registrar's Office.

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 students in attendance at University of Victoria. For further information please consult the Awards Officer.

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 Awards Officer.

Work in the Library and in the Cafeteria, at the rate of \$1.25 per hour, will be provided for students of good standing who require financial assistance. Application should be made to the Placement Office at time of registration on a form available for this purpose.

SCHOLARSHIP AND PRIZE WINNERS, 1964-65

Miss Kathleen Agnew Scholarships of \$150.00 each	Kathryn Ethel Anderson Brian Andrew Smith
Alean Scholarship of \$500.00	Sydney D. Bulman-Fleming
Alliance Française Prize of \$100.00	Darrel James Short
Beta Sigma Phi Sorority, Xi Nu Chapter, Annual Bursary of \$25.00	Jean Margot Young
The Birks Family Foundation Bursaries of \$100.00 each	Donald Frederick Beach Cheryl Audrey Moyer Linda Evelyn Rich
British America Paint Company Scholarship of \$100.00	John Richard Dawlings
British Columbia 1958 Centennial Scholarship of \$500.00	Donna E. Smyth
British Columbia Hydro and Power Authority Scholarships of \$200.00 each	Diane Lee Kilpatrick Elizabeth P. McIntyre Caroline Anne Overman Heather Ann Main Cheryl Lynn Warren
British Columbia Telephone Company Scholarship of \$100.00	Brian Arthur White
Dr. Maxwell A. Cameron Memorial Medal, and Prize of \$50.00	Anne Elmhirst Kemp
Canadian Association for Health, Physical Education and Recreation, Inc. (Greater Victoria Branch) Scholarship of \$100.00	Margaretha Sophia M. Hoek
Canadian Daughters' League, Assembly No. 5, Gertrude Ralston Memorial Bursary of \$100.00	Gabriele Johanna Seidel
The Read Jones Christoffersen Ltd., Consulting Engineers, Scholarship of \$200.00	Alan Lawrence Sieber
John Wesley and Emily E. Church Memorial Scholarship of \$100.00	Heather Anne Robertson
Clearihue Bursary of \$300.00	Margaret Park
Comitas Club Mildred Baxandall Johns Memorial Scholarship of \$50.00	Christopher Roger Hicks (By reversion from Jennifer Mary Dutton)
Charles E. (Chuck) Copeland Memorial Bursary of \$100.00	Linda Gail Parfitt
Edgar Ferrar Corbet Scholarship of \$250.00	Terry Gail Gurnsey
Matthew Cowan Annual Scholarship of \$150.00	Sheila Jane Gann
Arthur S. Denny Scholarship of \$100.00	David Charles Jones
Harold M. Diggon Memorial Bursary of \$200.00	Hilary Judith Ford
T. Eaton Company (Canada) Scholarship of \$200.00	David William Johns
Percy H. Elliott Memorial Scholarship of \$130.00	Robert John McMaster
Faulty Women's Club Prize of \$100.00	Elizabeth Havelaar
Falk Scholarship of \$50.00	Sister Mary Kathleen Ann
Camosun Gyro Club Scholarship of \$150.00	James Creighton Taylor
Victoria Gyro Club Scholarship of \$200.00	Kenneth John MacDonald
George Hamilton Harman Memorial Scholarship of \$100.00	Colin Frederick Crisp
William A. and Frances E. Harper Scholarship of \$75.00	Martin Vanderpol
Hudson's Bay Company Scholarship of \$396.00	No Award this year

The IBM-Thomas J. Watson Memorial Bursaries of \$100.00 each	Frances Elaine Anaka William George Blann Jean Calland Michael Adam Cochrane Marian Emily Garnett David Frederick Holm Lorna Joy Hilda Laitinen Diane Frances Miller Martin Vanderpol Paul Walter Williams
Don Ingham Memorial Scholarship of \$150.00	Russell Joseph Niehaus
Duncan Dogwoods Chapter, I.O.D.E., Bursary of \$300.00	Margaretha Sophia M. Hoek
Municipal Chapter, I.O.D.E., Scholarship of \$100.00 (Proficiency)	Charles Albert Haynes
Municipal Chapter, I.O.D.E., Scholarship of \$100.00. (Canadian History)	Robin Woodsworth Carlsen
Robert Burns McMicking Chapter, I.O.D.E., Bursary of \$100.00	Robin Alan Meakes
Island Tug and Barge Limited Scholarship of \$150.00	Ib Jarle Christensen
Marian D. James Memorial Award of \$50.00	Marilyn Marie Cross
Robert H. B. Ker Scholarship of \$150.00	Alan Lindsay Montgomery
Freeman F. King Scholarship of \$250.00	Gail Moyer
Kinsmen Club of Victoria Scholarship of \$250.00	Eleanor Jane Turner
Kiwanis Club of Oak Bay Scholarship of \$100.00	Barbara Rae Pridham
Kiwanis Club of Victoria Scholarship of \$250.00	Terry George Kalyn
The Ladies Pharmaceutical Auxiliary (Victoria) Bursary of \$50.00	No Award this year
Lady Laurier Club Scholarship of \$100.00	Gordon Richard Pollard
Lions Club of Victoria Scholarship of \$100.00	Paul Gary Young
MacMillan, Bloedel and Powell River Limited Scholarship of \$250.00	Alexander Michael Dawes
Ocean Cement Limited, B.C. Cement Division Scholarship of \$100.00	David William Johns
Professional Men's Garden Club of Victoria Scholarship of \$100.00	Sharon-Dale Brown
Quita Nichol Bursary of \$50.00	Aveline Margaret Bricknell
Quita Nichol Bursary of \$100.00	Edna Irene Shepherd
Quita Nichol Bursary of \$50.00	Heather Anne Robertson (By reversion from Micheline E. Paquette)
Benny Nicholas Memorial Award of \$100.00	Lawrence Russell
Chapter "N" P.E.O. Sisterhood Esther Pearce Memorial Prize of \$50.00	Edna Irene Shepherd
General and Mrs. G. R. Pearkes Prize of \$50.00	Alexander Michael Dawes
Alan Pratt Memorial Scholarship of \$100.00	Robert George Pettit
Rithet Consolidated Limited Bursary of \$100.00	Susan Mary Fawcett
Rotary Club of Douglas Scholarship of \$100.00	Jean Margot Young
Rotary Club of Victoria Scholarship of \$250.00	Kenneth John MacDonald
Royal Canadian Legion Victoria and District Zone, Sir Percy Lake Memorial Scholarship of \$300.00	Lindsay McNiven Hodge

Royal Institution and Frank Eaton Memorial Scholarship of \$50.00	Linda Eileen Parsons
Madame E. Sanderson Memorial Scholarship of \$50.00	Darrell James Short
Edward J. Savannah Memorial Scholarship of \$150.00	Robert John McMaster
Nora Lugin Shaw Memorial Scholarship of \$60.00	No Award this year
Andrew Sheret Limited Scholarships, of \$100.00 each	Joanne Margaret King Donald David MacMurchie
Special Science Scholarships (Pearse Estate), of \$300.00 each	Andrew James Cleland John Albert James Matthews Carolyn Gail Menzies
Special Scholarships in Biology, of \$200.00 each	John Christopher Davis Rita Mae Gustus Dorinda Ann Kerr Carolyn Gail Menzies Peter Moore David Lorne Wakelin
Fred Spencer Scholarship of \$100.00	William James Drake
United Nations Association in Canada, Victoria Branch, Scholarship of \$250.00	Donald George Peden
University of Victoria Faculty Association Scholarship of \$200.00	Ronald K. Gamey
University Women's Club Scholarship of \$200.00	Edna Irene Shepherd
University Women's Club, Rosalind W. Young Scholarship of \$200.00	Gabriele Johanna Seidel
Vancouver Island Branch, Engineering Institute of Canada Scholarship of \$100.00	Michael H. Baker
Victoria Council, United Commercial Travellers of America Scholarship of \$100.00	Linda Eileen Parsons
Victoria Medical Society Scholarship of \$250.00	Philip Lambert
Victoria Natural History Society Scholarship of \$100.00	Mary Barbara McKellar
Victoria West Parent-Teacher Association Bursary of \$50.00	Jean Davies
Weber Memorial Bursary of \$100.00	Alan Lawrence Sieber
Westad Scholarship of \$250.00	Alice Carolyn M. Wootten
Weston Bakeries Limited Scholarship of \$250.00	Robert John Conway Edwards
Woods Fans Canada Ltd. Scholarships:	
of \$200.00	John Bateman Anderson
of \$250.00	Arthur Ernest Leeder Andrew R. W. McKellar
of \$300.00	Alexander Michael Dawes Thomas R. Turner
of \$500.00	Frank Graham Somner
Woodward Stores Limited Scholarship of \$250.00	Darrell James Short
Yarrows Limited Bursary of \$150.00	Robert Alexander Mitchell
Yorkshire and Canadian Trust Limited Scholarship of \$175.00	Linda Gail Parfitt
President's Scholarships:	
of \$200.00	Neil Bruce Margaret Park Robert Thomas Smith
of \$150.00	Jean Francis Alexander David James Bowering Katharine Bergbusch Robin Woodsworth Carlsen

President's Scholarships (continued)

of \$150.00	David Coburn Edwin Dottridge Donald Nordahl Knut Flakstad Robert John Douglas Gage Cashman Roger Hampton Jane Elizabeth Hassen Janet Louise Hudson Margaret Anne Lockhart Melvin Joseph Miners Julia A. Oxendale Cheryl Elizabeth Osborn Leonard Frank Schmidt John Robert Stephenson
of \$100.00	James Patrick Carley Jill Kathleen Marie Cameron John Richard Dawlings Stuart James Harris Lynne Maureen Henderson Diane Lee Kilpatrick Linda Joan Larson John Albert James Matthews Laurence Douglas McCann Mary Barbara McKellar Gloria Louise Olenick Linda Eileen Parsons Gabrielle Johanna Seidel Bruce Wallace Cheryl Lynn Warren
of \$75.00	Robert John McMaster Jean Margot Young
of \$50.00	Kathryn Ethel Anderson William James Drake Alan Lindsay Montgomery Robert George Pettit Gordon Richard Pollard Eleanor Jane Turner Alice Carolyn M. Wootten Paul Gary Young
Entering First Year:	
of \$500.00	Susan Bates Eileen L. Cavers Mark Horne Alan B. Hughes Catherine A. Reed Daniel R. Worsley
The Governor-General's Medal	Richard Arthur Gough
Birk's Gold Watch	Brian Arthur White
Francis Gold Wrist Watch	Frank Graham Sommer
Rose's Limited Jewelers Watch	Anne Elmhirst Kemp
Adelphi Book Shop Prize	Sister Mary Kathleen Ann
First Year English Book Prize	Kenneth John MacDonald
Gwen Downes Memorial Book Prize	Eleanor Jane Turner
The Haunted Bookshop Book Prize	Sister Mary Reginald Shreenan
French Government Medal	Terry Gail Guernsey
French Government Book Prizes	Pauline Owens Leonard Frank Schmidt

Government of Federal Republic of Germany Book Prizes,	
Government of Austria Book Prizes	Katherine Bergbusch David James Bowering Aveline Margaret Bricknell Coralie Judith Fessey Dapheny Shirley Horne Frank Graham Sommer Eleanor Jane Turner
Spanish Government Book Prize	Carol Ann Archer
B.C. Historical Association Book Prizes	Barbara Ann Ross Brian Andrew Smith
Book Prizes for Excellence in Shakespeare Studies	Loral A. Dean
G. B. Stark Memorial Slide Rule Prize	Frank Graham Sommer
Government of British Columbia Scholarships:	

These scholarships were awarded to 617 students in the session 1965-66.

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 16. Applications must be received in the Registrar's office by September 1. *Registration without penalty must be completed before lectures begin on September 19.* On and after September 19 a late registration fee of \$5.00 will be charged. No registrations will be received, even upon payment of the late fee, after September 24.

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 1966 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. (Leave of absence 1966-67)

Acting Director: ROBERT T. D. WALLACE, M.A.

The announcement of the courses to be offered in the Summer Session (approximately seven weeks in length) will be issued in the Spring and will be available on request from the Registrar.

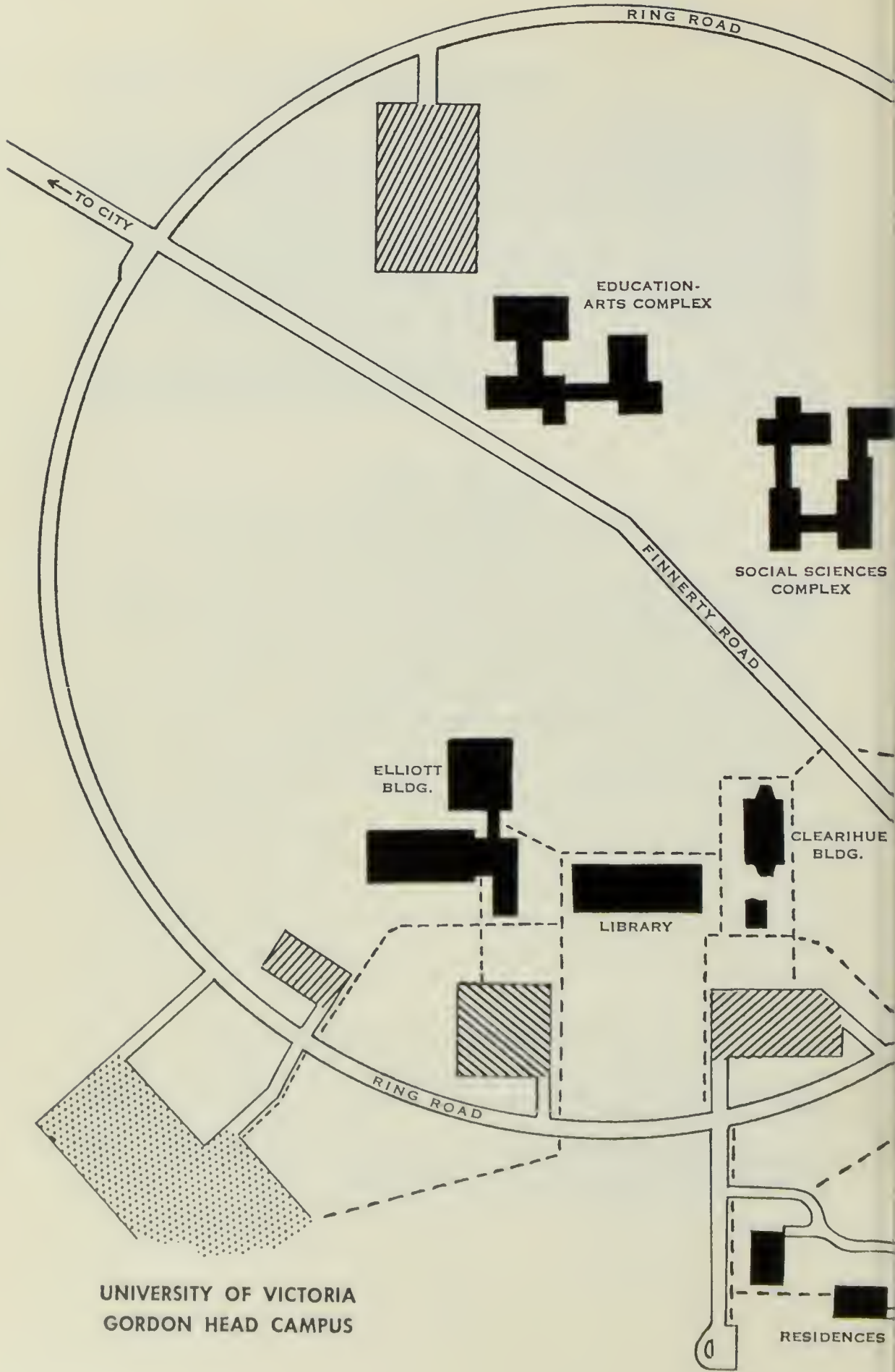
The regulations, etc., governing the Summer Session are as follows:

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 30.
6. Summer Session examinations are held at the close of the Summer Session.
7. For regulations regarding standing and credit, undergraduates should refer to pages 43 or 138.

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).



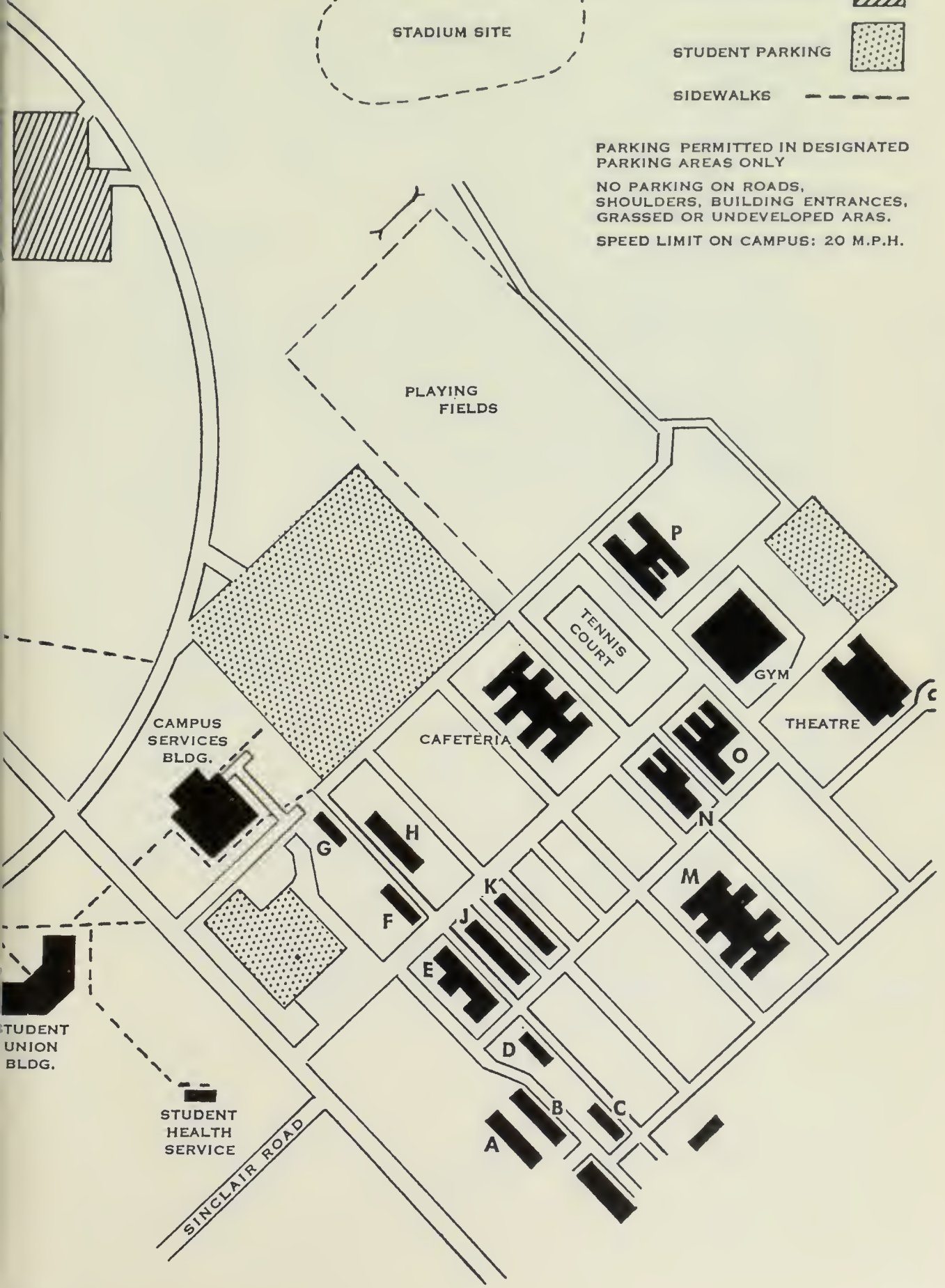
UNIVERSITY OF VICTORIA
GORDON HEAD CAMPUS



LEGEND

- BUILDINGS 
- FACULTY PARKING 
- STUDENT PARKING 
- SIDEWALKS 

PARKING PERMITTED IN DESIGNATED PARKING AREAS ONLY
 NO PARKING ON ROADS, SHOULDERS, BUILDING ENTRANCES, GRASSED OR UNDEVELOPED ARAS.
 SPEED LIMIT ON CAMPUS: 20 M.P.H.



REGISTRATION FOR 1965-66

FACULTY OF ARTS AND SCIENCE

	<i>Men</i>	<i>Women</i>	<i>Total</i>
First Year	667	377	1044
Second Year	441	153	594
Third Year	191	77	268
Fourth Year	162	60	222
Graduates	11	—	11
Unclassified	2	4	6
Total	1474	671	2145

FACULTY OF EDUCATION

Elementary Field

First Year Regular	21	182	203
Second Year Regular	18	140	158
Third Year Regular	20	84	104
Fourth Year Regular	16	22	38
Total	75	428	503

Second Year Transfers	21	85	106
Third Year Transfers	5	9	14
Fourth Year Transfers	3	1	4
Graduates	8	10	18
Total	37	105	142

Secondary Field

First Year	58	22	80
Second Year	14	15	29
Third Year	21	4	25
Fourth Year	20	1	21
Fifth Year	12	2	14
Graduates (One-Year Programme)	15	5	20
Total	140	49	189

Other

Unclassified	1	2	3
Total in Faculty	253	584	837

GRAND TOTAL	1727	1255	2982
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(Statistics compiled October 1, 1965.)

DEGREES CONFERRED 1965

B.A. - 100; B.Sc. - 48; B.Ed. - 66. — Total 214.

ENROLMENT 1960-66

	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66
Arts and Science						
First Year	496	631	699	733	891	1044
Second Year	181	271	323	441	488	594
Third Year	95	109	165	180	228	268
Fourth Year	45	70	64	147	189	222
Graduates	1	5	4	8	10	11
Unclassified	—	—	—	—	2	6
	818	1086	1255	1509	1808	2145
Faculty of Commerce and Business Administration						
First Year	21	19	23	—	—	—
Faculty of Education						
Elementary Field						
First Year	188	194	141	141	206	203
Second Year	134	147	158	112	104	158
Third Year	9	26	36	43	70	104
Fourth Year	3	1	8	18	19	38
	324	368	343	314	399	503
Second Year Transfers	163	150	107	110	122	106
Third Year Transfers	14	15	8	13	17	14
Fourth Year Transfers	4	3	2	2	1	4
Graduate Transfers ..	8	11	9	12	21	18
	189	179	126	137	161	142
Post B.Ed. Degree (Elem.) 5th Yr. Programme	—	—	—	—	1	—
Secondary Field						
First Year	31	26	29	46	52	80
Second Year	13	29	21	18	31	29
Third Year	6	24	34	24	22	25
Fourth Year	3	6	17	19	21	21
Fifth Year	—	—	1	10	18	14
Graduates (One Yr. Prog.)	—	—	—	8	23	20
	53	85	102	125	167	189
Unclassified	—	4	—	—	5	3
Total in Faculty	576	636	571	576	733	837
TOTAL	1415	1741	1849	2085	2541	2982

3314

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. Inquiries 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.

Students already registered at University of Victoria must request application forms from the Registrar's Office; these forms are not mailed automatically with statements of grades.

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.



UNIVERSITY OF VICTORIA

SCHOOL OF FINE ARTS

Divisions of Art, Music & Theatre

SUPPLEMENT TO CALENDAR
FOR 1966-67

SCHOOL OF FINE ARTS

For the session 1966-67 instruction will be offered by the following:

Peter Garvie, B.A. (*Cantab.*), Professor and Director of the School.

From the Faculty of Arts and Science

Alan Gowans, M.A. (*Toronto*), M.F.A., Ph.D. (*Princeton*), Professor and Chairman, Division of Art and Art History.

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

Carl R. D. Hare, M.A. (*Alta.*), Dip. R.A.D.A., Assistant Professor (Advisor to students, Division of Theatre).

Frederick Edell, M.F.A. (*Yale*), Assistant Professor.

Edward B. Schnoffner, A.B. (*San Diego*), Technical Supervisor & Part-time Lecturer.

T. Onley, Dip. (*Douglas School of Art*), Lecturer.

From the Faculty of Education

D. Boyce Gaddes, A.T.C.M., B.Mus. (*Oregon*), M.A. (*Wash.*), Associate Professor (Advisor to students, Division of Music).

Howard B. Barnett, A.R.C.T., B.A., Mus. Bac. (*Tor.*), M.A., Ph.D. (*S. Calif.*), Associate Professor.

Donald Harvey, A.T.D. (*Britain*), Assistant Professor. (Leave of absence 1966-67).

John Philip Dobereiner, Dip. V.S.A., B.Ed. (*Brit. Col.*), Instructor.

The School of Fine Arts comprises the Divisions of Art, Music and Theatre, and offers courses leading to the degree of Bachelor of Music; Bachelor of Fine Arts with majors in Theatre and in the Visual Arts; Diploma in Fine Arts in the Visual Arts. Certain courses offered in the School of Fine Arts have been approved for credit in the Faculty of Arts and Science and in the Faculty of Education for the session 1966-67. (See pp. 90, 91 and 116 of the University Calendar for 1966-67). Students planning a course of study leading to a Diploma in Fine Arts should consult the Registrar regarding entrance requirements.

General Requirements

Calendar regulations governing admission, fees, and academic advancement apply to all students registered in the School of Fine Arts. Special regulations are set out under the Divisional offerings.

Qualifications for Admission

See pages 22-27 inclusive of the University Calendar.

DIVISION OF ART AND ART HISTORY

Programme of Courses Required for the Degree of B.F.A.

With the permission of the Division a student may proceed to the B.F.A. degree with a major in the Visual Arts with specialization in Painting, Ceramics, Design, Graphic Art or Sculpture. Third and fourth year courses will be available *in Painting only* during the 1966-67 session. Students must complete 60 units of prescribed course work, of which at least 9 units must be taken in the area of specialization.

<i>Subject</i>	<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
Art (Studio Courses)	Art 125, 109	Art 205, 209	Art 305, 309 and 3 units in area of specialization	Art 409, and 6 units in area of specialization
Art History	Art 100 or 200	—	3 units*	3 units*
English	Eng. 100	Eng. 200 or 201	—	—
Language	100 level	200 level	—	—
Studio Electives	—	—	—	3 units
Academic Electives†	—	3 units	3 units	—
	15 units	15 units	15 units	15 units

* chosen from Art History courses numbered 300 and above.

† any 2 courses chosen from: Philosophy 312
(with permission of the Dept. of Philosophy)
Anthropology 200
Sociology 200

Programme of Courses Required for the Diploma in Fine Arts

With the permission of the Division students accepted as candidates for a Diploma in Fine Arts may proceed to a Diploma with a major in the Visual Arts with specialization in Painting, Sculpture, Ceramics, Design or Graphic Art. Students must complete 60 units of prescribed course work, of which at least 12 units must be taken in the area of specialization. Third and fourth year courses will be available *in Painting only* during the 1966-67 session.

<i>Subject</i>	<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
Art (Studio Courses)	Art 125, 109	Art 205, 209	Art 305, 309 and 6 units in area of specialization	Art 409, and 6 units in area of specialization
Art History	Art 100 or 200	3 units	—	—
English	Eng. 100	—	—	—
Studio Electives	3 units	3 units	—	6 units
Academic Electives	—	3 units	3 units	—
	15 units	15 units	15 units	15 units

COURSES OFFERED

Academic Courses

ART APPRECIATION

***ART 120. (3) Art Appreciation.**

(Not open to BFA and Diploma candidates).

A theoretical course designed to provide an introduction to the understanding and appreciation of painting, sculpture and architecture, and to prepare the student for qualified judgment of traditional and contemporary art forms. (3-0; 3-0)

HISTORY OF ART

***†ART 100. (3) Survey of World Art**

An introductory course offering an outline of the main artistic achievements of mankind in the fields of painting, sculpture and architecture. (Not offered in 1966-67). (3-0; 3-0)

***†ART 200. (3) Painting from Giotto to Cézanne**

A survey of the chief landmarks in six centuries of the history of painting. (3-0; 3-0)

***†ART 300. (3) Modern Art, 1800-1960**

An examination of the developments in painting and sculpture of the last century and a half. (Compulsory for painting majors). (3-0; 3-0)

***ART 310. (3) Art of the Renaissance**

A history of the developments in European painting, sculpture and architecture from 1400 to 1550 A.D. (3-0; 3-0)

ART 390. (3) Directed Studies

Studio Courses

(Open without credit to all students in the University with the permission of the Registrar and the instructor concerned.)

PAINTING

†ART 201. (3) Painting I

This is essentially an introductory course, designed primarily to encourage personal expression. It will keep concern with technical discipline to a minimum and will emphasize a variety of drawing and painting media, along with individual experimentation and discovery. (Prerequisite to all other painting courses). (0-4; 0-4)

†ART 301. (3) Painting II

An introduction to oil and new plastic media; methods of priming, framing, etc.; painting problems in Still Life, Figure and Landscape. Composition and pictorial structure will be emphasized. (0-4; 0-4)

†ART 401. (3) Painting III

This course will place primary emphasis on personal expression within the disciplines of painting. Abstraction and non-figurative painting will be stressed although individual interpretation will always be the major consideration.

Oil and new plastic media will be used. A folio of drawings for paintings must be submitted at the end of the course. (0-4; 0-4)

SCULPTURE

(N.B. No courses in Sculpture will be offered in 1966-67.)

* Approved for credit in the Faculty of Arts and Science.

† Approved for credit in the Faculty of Education.

CERAMICS

ART 303. (3) Ceramics I

An introduction to ceramics with emphasis upon preparation of clays, etc. Hand processes, coil, slab. Pottery design and construction, glazing, packing, firing. (0-4; 0-4)

ART 403. (3) Ceramics II

(Not offered 1966-67).

ART 413. (3) Ceramics III

(Not offered 1966-67).

DESIGN

†ART 125. (3) Lecture-demonstration studio course

A course designed to give both theoretical and practical knowledge of the elements of media and techniques. (3-3; 3-3)

†ART 205. (3) Design I

A course designed to give a grounding in design fundamentals in two-dimensional materials through the assignment of problems. Exploration of elements, line, tone, colour, etc. Application of principles of design and composition, rhythm, balance, emphasis, etc. Prerequisite Art 125. (0-3; 0-3)

†ART 305. (3) Design II

A course designed to teach the application of design fundamentals to a variety of three-dimensional materials. Prerequisite Art 205. (0-3; 0-3)

ART 405. (3) Design III

A special study in an advanced field of design. Prerequisite Art 305. (0-3; 0-3)

ART 415. (3) Industrial Design

(Not offered 1966-67).

ART 425. (3) Typographic Design

(Not offered 1966-67).

GRAPHICS

The following courses in the print-making techniques may be taken in any order, but all three are required of B.F.A. candidates specializing in Graphics. Prerequisite for all three: Art 125.

ART 307. (3) Intaglio

The history, techniques and methods of etching, drypoint and engraving. (0-5; 0-5)

ART 407. (3) Planographic

The history, techniques and methods of stone and metal plate lithography and an introduction to a commercial offset process. (0-5; 0-5)

ART 417. (3) Relief

The history, techniques and methods of linocut, woodcut, wood engraving, relief etching and introduction to typesetting, and letterpress printing. (0-5; 0-5)

† Approved for credit in the Faculty of Education.

DRAWING

†ART 109. (3) Drawing I

An introduction to drawing as a mode of expression. A course designed to introduce the student to the free manipulation of various drawing media, basic graphic values such as the calligraphic nature of drawing as a medium of personal communication, and drawing as an exciting vehicle of invention and exploration. (0-3; 0-3)

†ART 209. (3) Drawing II

A course designed to preserve and expand the values established in 109, while introducing processes of form analysis and the use of drawing as a vehicle of descriptive power through the examination of traditional and contemporary modes of rendering. (0-3; 0-3)

†ART 309. (3) Drawing III

A course designed to include a concentrated study of human anatomy and its extensive application to the drawing of the human figure. Included in the year's programme is a period of intensive drawing in five-hour sessions designed to establish the validity of drawing as a serious and fundamental activity and to establish a high degree of fluency in graphic terms. (0-3; 0-5)

†ART 409. (3) Drawing IV

A course in drawing in which the student will have opportunities to expand his graphic vocabulary on the basis of his previous courses and to make special study of the application of drawing to his major field of study. (0-3; 0-3)

† Approved for credit in the Faculty of Education.

DIVISION OF MUSIC

General Information

In addition to fulfilling general requirements for the School of Fine Arts, students seeking admission to the B.Mus. programme must provide evidence of marked musical ability.

Students on other degree programmes who wish to undertake music courses are not required to demonstrate the same high level of musical ability, but they should consult the Division before registering in any music course.

In view of these requirements, students are urged, wherever possible, to arrange an interview with the Division before seeking admission.

Several choral and instrumental groups, sponsored by the Division of Music and directed by the faculty and professional conductors from the City of Victoria, are active in the University.

University Concert Band
Instrumental Ensemble
University Choir

University Madrigal Singers
Collegium Musicum

These groups are open to students in any faculty by permission of the conductors. No academic credit is given for participation in a performance group, but such participation is mandatory for students majoring in Music. Bachelor of Music students will be required to take part in rehearsals and performances associated with Divisional projects. They must consult the Division before accepting major musical commitments not related directly to their course of study.

PROGRAMME OF COURSES REQUIRED FOR THE DEGREE OF B.MUS.

For students wishing to specialize in music as preparation for a career as professional musicians, for teaching, or for graduate study in other universities, the following programmes are offered:

Major in Music Theory and Composition

Major in Music History

Major in General Music

For each of the three major programmes the complete music requirements for the first year and some of the second year music courses will be offered in 1966-67. Course outlines for the first two years of each programme are as follows:

MAJOR IN MUSIC THEORY AND COMPOSITION

<i>Year 1</i>	<i>Units</i>	<i>Year 2</i>	<i>Units</i>
Music 100	3	Music 200	3
Music 110	3	Music 201	3
Instrumental techniques (one of strings, brasses, woodwinds, percussion)	3	Music 210	3
Performance group	0	Instrumental techniques, one not already taken	3
English 100	3	Performance group	0
One of French 140, 180, German 140	3	English 200	3
	<hr/> 15		<hr/> 15

MAJOR IN MUSIC HISTORY

<i>Year 1</i>	<i>Units</i>	<i>Year 2</i>	<i>Units</i>
Music 100	3	Music 200	3
Music 110	3	Music 210	3
Performance group	0	Performance group	0
English 100	3	English 200	3
Two of: French 140 or 180, German 140, History 101	6	Two of: French 240 or 280, German 240, History 200	6
	15		15

MAJOR IN GENERAL MUSIC

<i>Year 1</i>	<i>Units</i>	<i>Year 2</i>	<i>Units</i>
Music 100	3	Music 200	3
Music 110	3	Music 210	3
Instrumental techniques (one of strings, brasses, woodwinds, percussion)	3	Instrumental techniques, one not already taken	3
Performance group	0	Performance group	0
English 100	3	English 200	3
One of: French 140, 180, German 140	3	One of: French 140, 180, German 240	3
	15		15

Note: In addition to the above requirements, Bachelor of Music students will be expected to attain an advanced level of performance in one of these areas: piano, orchestral instrument or voice. It is expected that students will enter these programmes with considerable previous training and practical experience in some area of applied music. Some further study of applied music will be required of all students on these programmes. The requirements of this study will be determined on an individual basis, and previous level of performance and the particular programme chosen will be taken into account. Study with approved teachers outside the University is acceptable.

COURSES OFFERED

THEORY AND COMPOSITION

†*100. (3) **Theory of Music I** (replaces Music 101)

Study, analysis and practice of elementary choral and instrumental harmony.

(3-1; 3-1)

†*200. (3) **Theory of Music II** (replaces Music 201)

More advanced study of harmonic practices of the eighteenth and nineteenth centuries. Prerequisite Music 100.

(3-1; 3-1)

201. (3) **Music Composition I**

Study and practice in the craft of the composer.

Prerequisite Music 100. (Not offered 1966-67).

(3-0; 3-0)

* Approved for credit in the Faculty of Arts and Science for the session 1966.67.

† Approved for credit in the Faculty of Education.

HISTORY

†*110. (3) **History of Music since 1600** (replaces Music 120)

A survey of musical literature in the changing cultural patterns of western civilization from about 1600 to the present day. (3-0; 3-0)

210. (3) **Music of the Romantic and Modern Periods**

A study of the changing musical styles and forms in the nineteenth and twentieth centuries. (Not offered 1966-67). (3-0; 3-0)

APPLIED MUSIC

001. (3) Instrumental techniques, strings (3-1; 3-1)

002. (3) Instrumental techniques, brasses (3-1; 3-1)

003. (3) Instrumental techniques, woodwinds (3-1; 3-1)

004. (3) Instrumental techniques, percussion and conducting (3-1; 3-1)

Note: Those B.Mus. students who are required to take courses numbered 001 to 004 must take one each year, but these courses may be taken in any order.

* Approved for credit in the Faculty of Arts and Science for the session 1966-67.

† Approved for credit in the Faculty of Education.

DIVISION OF THEATRE

BACHELOR OF FINE ARTS WITH A MAJOR IN THEATRE

The Bachelor of Fine Arts with a major in Theatre is intended for those students who wish to continue their studies in graduate or professional schools, or who wish to prepare for a career in community or professional theatre. As well as obtaining a broad general education in the arts, the student must specialize in one of the following areas: acting, directing, or design and production. Students who wish to enter the B.F.A. Theatre programme, or who wish to transfer to the programme from other departments, faculties, or universities, should consult the Theatre Division.

Students will be required to take part in rehearsals and performances associated with divisional projects. They must consult the Division before accepting major commitments not related directly to their course of study.

Each season, in co-operation with the Theatre Division, the Players Club and the Campus Players present major productions in the Phoenix Theatre. As well, a season of noontime experimental productions is presented in the Workshop Theatre. These organizations are open to all students of the University who wish to participate.

Programme of Courses Required for the Degree of B.F.A. with a Major in Theatre

With the permission of the Division, a student may proceed to the B.F.A. degree with specialization in acting, directing, or design and production. Courses in these areas will be available at the *first and second year levels only* during the 1966-67 session. Students must complete 60 units of prescribed course work, of which at least 9 units must be taken in the area of specialization.

COURSES OFFERED

Students in the School of Fine Arts should register for Theatre courses under the following numbers. Numbers in parentheses refer to the same courses as listed under offerings by the Department of English in the Faculty of Arts and Science.

HISTORY OF THEATRE

*310. (3) **The History of the Theatre to 1642**

An examination of the western theatre in relation to society from the beginnings in primitive ritual to the close of the English playhouses in 1642.

(Not offered 1966-67). (3-0; 3-0)

*311. (3) **The History of the Theatre from 1642 to 1918**

An examination of the western theatre in relation to society from the emergence of the French theatre in the seventeenth century to the emergence of the expressionist movement in the twentieth century.

Text: To be announced.

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

*312. (3) **Modern World Drama**

An examination of the modern western theatre from its beginnings in the naturalist movement of the nineteenth century to the Theatre of the Absurd.

Text: To be announced.

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

* Approved for credit in the Faculty of Arts and Science.

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>
English	English 100 (3)	English 200 or 201 (3)		
Modern Language	100 level (3)	200 level (3)		
Theatre (Academic)	Theatre 170 (3)	Theatre 310, 311, or 312 (3)	Theatre 310, 311, or 312 (3)	
Theatre (Laboratory)	Theatre 120 (3)	Theatre 299 (0)	Theatre 399 (0)	
	Theatre 140 (3)			
	*Movement (0)			
Theatre Major		Theatre 220, 230, or 240 (3)	Theatre 320, 330, or 340 (3)	Theatre 420, 430, or 440 (3)
				Theatre 490 (0)
Theatre Electives			3 units (3)	9 units (9)
Fine Arts Electives		Art 120 or 200 (3)	Music 110 or 210 (3)	
**Arts Electives			3 units (3)	3 units (3)
	15 units	15 units	15 units	15 units

* One hour a week each term

** Any two of: Anthropology 200
Sociology 200
Classics 315

English 411
English 413
English 425

English 433
English 437
Philosophy 312 (with permission of the instructor)

ACTING

***120. (3) Acting I** (Same as Theatre 320)

A study of representative theories of acting, examination of movement, mime, improvisation and speech, interpretation of the role.

Text: To be announced.

Mr. Hare.

(3-3; 3-3)

220. (3)

(Not offered 1966-67).

320. (3)

(Not offered 1966-67).

420. (3)

(Not offered 1966-67).

DIRECTING

230. (3)

(Not offered 1966-67).

330. (3)

(Not offered 1966-67).

430. (3)

(Not offered 1966-67).

DESIGN AND PRODUCTION

***140. (3) Production I** (Same as Theatre 330)

An exploration of the basic elements of stagecraft: scenery, properties, lighting, sound, costumes, and stage management.

Text: To be announced.

Mr. Shoffner.

(3-3; 3-3)

240. (3)

(Not offered 1966-67).

340. (3)

(Not offered 1966-67).

440. (3)

(Not offered 1966-67).

CRITICISM

***170. (3) An Introduction to the Theatre** (Same as Theatre 200)

An introduction to the study of dramatic form and the principles of dramatic criticism. A brief survey of the development of western theatre will require the study of representative plays in order to provide a broad historical background.

Text: To be announced.

Mr. Edell.

(3-0; 3-0)

* Approved for credit in the Faculty of Arts and Science.

DIRECTED STUDIES

299. (0) Theatre Laboratory

Under the supervision of faculty, students will participate in major and workshop production in their particular area of interest. Given only for second-year students in the B.F.A. programme. (0-2; 0-2)

399. (0)

(Not offered 1966-67).

***390. (3) Directed Studies in Theatre**

Mr. Edell.

(3-0; 3-0)

490. (3)

(Not offered 1966-67).

* Approved for credit in the Faculty of Arts and Science.

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