



UNIVERSITY OF VICTORIA

CALENDAR 1967-68

VICTORIA, BRITISH COLUMBIA, CANADA

Friday, June 30

Last day for submission of Application for Re-registration forms by students who were registered at the time of the final examinations in April 1967. Students are strongly advised to apply as early as possible. For late application fee, see page 40.

Tuesday, August 15

Last day for submission of Application for Admission forms by: all students seeking entry for the first time; all students who were not registered at the time of the final examinations in April 1967. Students are strongly advised to apply as early as possible. For late application fee, see page 40.

Monday, September 11 - Thursday, September 14

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

Monday, September 18

Lectures begin at 8:30 a.m.

Late registration fee becomes effective. See page 40.

Saturday, September 23

Last day for changes in students' courses (to 12:00 noon only).



UNIVERSITY OF VICTORIA

VICTORIA, BRITISH COLUMBIA, CANADA

Calendar *1967-68*

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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ACADEMIC YEAR 1967 - 68

<i>Day</i>	<i>Date</i>	<i>Item</i>	1967
Friday	30 June	Last day for submission of applications for re-admission by students registered at the time of final examinations in April 1967.	
Monday	3 July	Fee for late submission of applications for students mentioned above becomes effective at 12:00 noon.	
Monday	3 July	Summer Session 1967 begins.	
Monday	7 Aug.	Supplemental examinations begin.	
Friday	11 Aug.	Supplemental examinations end.	
Tuesday	15 Aug.	Last day for submission of applications for admission and applications for re-admission by students not registered at the time of the final examinations in April 1967.	
Wednesday	16 Aug.	Fee for late submission of applications for admission or re-admission (including required transcripts) becomes effective at 12 noon.	
Friday	18 Aug.	Summer Session ends.	
Friday	1 Sept.	Academic Year begins.	
Monday	4 Sept.	Labour Day. University closed Saturday to Monday inclusive.	
Friday	8 Sept.	Registration in person for all students receiving Notice of Admission to, or currently registered in, the School of Graduate Studies, from 9:30 a.m. to 12:30 p.m., in the gymnasium.	
Sunday	10 Sept.	Assigned accommodation in University residences becomes available in the evening.	
Monday	11 Sept.	Registration in person for the winter session. Details of place and time are mailed to all students receiving Notice of Admission or Notice of Eligibility to Re-register. Registration closes at 4:00 p.m. First term fees are due and payable. Ability Tests will be administered for new students.	
Thursday	14 Sept.		
Monday	18 Sept.	Lectures begin at 8:30 a.m. Late registration fee becomes effective.	
Monday	18 Sept.	Board of Governors meets.	
Tuesday	19 Sept.	Meeting for all new students at 1:00 p.m., University Gymnasium.	
Wednesday	20 Sept.	Senate meets.	
Saturday	23 Sept.	Last day for changes in students' courses, all changes must be reported to the Registrar's Office by 12:00 noon on this date.	
Monday	9 Oct.	Thanksgiving Day. University closed Saturday to Monday inclusive.	
Wednesday	11 Oct.	Senate meets.	
Monday	16 Oct.	Board of Governors meets.	
Saturday	11 Nov.	Remembrance Day. University closed.	
Monday	20 Nov.	Board of Governors meets.	
Tuesday	5 Dec.	Last day of lectures (subject to revision).	
Friday	8 Dec.	Examinations begin.	
Wednesday	13 Dec.	Senate meets.	
Monday	18 Dec.	Board of Governors meets.	

Wednesday	20 Dec.	First term ends.
Saturday	23 Dec.	} Christmas. University closed Saturday to Tuesday inclusive.
Sunday	24 Dec.	
Monday	25 Dec.	
Tuesday	26 Dec.	

1968

Monday	1 Jan.	University closed.
Tuesday	2 Jan.	Second term begins. Second term fees due and payable.
Monday	8 Jan.	Late fee becomes effective.
Monday	15 Jan.	Board of Governors meets.
Wednesday	14 Feb.	Senate meets.
Monday	19 Feb.	Board of Governors meets.
Friday	1 Mar.	} Mid-term break. Classes cancelled. Library open.
Saturday	2 Mar.	
Monday	18 Mar.	Board of Governors meets.
Wednesday	10 Apr.	Senate meets.
Thursday	11 Apr.	Last day of lectures.
Friday	12 Apr.	Good Friday. University closed Friday to Monday inclusive.
Tuesday	16 Apr.	Sessional examinations begin.
Tuesday	16 Apr.	Board of Governors meets.
Tuesday	30 Apr.	Last day for submission of application for scholarships listed on page 244.
Thursday	2 May	Sessional examinations end.
Saturday	18 May	Summer office hours become effective. University closed Saturdays until August 31 inclusive.
Monday	20 May	Victoria Day. University closed.
Tuesday	21 May	Board of Governors meets.
Sunday	26 May	Baccalaureate service.
Monday	27 May	Convocation.
Monday	17 June	Board of Governors meets.
2 July-16 Aug.		Summer Session 1968.

1967

JANUARY

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1968

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DECEMBER

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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

Richard B. Wilson, B.Comm. (*McGill*).

PRESIDENT

Malcolm G. Taylor, M.A., Ph.D. (*Calif.*), LL.D. (*Alta.*).

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.

Jean K. Petrie, B.Sc., Ph.D. Term expires June 30, 1968.

H. B. Elworthy. Term expires June 30, 1969.

L. G. McKenzie, Q.C., B.A., LL.B. Term expires June 30, 1969.

W. C. Mearns, B.A. Term expires June 30, 1969.

Elected by the Senate:

Charles Gregory, M.B., Ch.B., Cert. in Psych. R.C.P.S. Term expires February 1970.

G. F. Homer, M.D., F.R.C.S. (Eng.). Term expires February 1970.

J. G. Ruttan, B.A., M.A., B.C.L. Term expires February 1970.

SENATE

Ex Officio:

The Chancellor.

The President (Chairman).

The Deans of the Faculties.

The Head Librarian.

The Registrar (Secretary).

Elected by the Faculties:

P. L. Smith, B.A., M.A., Ph.D. Term expires June 1969.

G. A. Brand, B.A., M.Ed. Term expires June 1969.

Elected by the Joint Faculties:

Roger J. Bishop, B.A., B.L.S., M.A. Term expires June 1969.

Derek V. Ellis, B.Sc., M.Sc., Ph.D. Term expires June 1969.

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.

Appointed by the Senate:

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

Elected by the Convocation:

C. Hilary Butler, B.A., M.A. Term expires December 1969.

J. F. K. English, B.A., M.A., B.Paed., Ed.D., LL.D. Term expires December 1969.

Charles Gregory, M.B., Ch.B., Cert. in Psych. R.C.P.S. Term expires December 1969.

J. G. Ruttan, B.A., M.A., B.C.L. Term expires December 1969.

Frederick H. Sanders, B.A., A.M., Ph.D. Term expires December 1969.

L. J. Wallace, B.A., M.Ed. Term expires December 1969.

Appointed by the Lieutenant-Governor in Council:

N. D. Cameron, B.A. Term expires August 1969.

G. F. Homer, M.D., F.R.C.S. (Eng.). Term expires August 1969.

F. P. Levirs, B.A., M.A., M.S.Ed. Term expires August 1969.

Mrs. M. T. Ricker, R.N., B.Sc. Term expires August 1969.

FACULTY COUNCIL

Ex Officio:

The President (Chairman).

The Deans.

The Head Librarian.

The Registrar (Secretary).

Elected by the Joint Faculties:

Arts

James E. Hendrickson, B.A., B.Ed., M.A., Ph.D. Term expires November 1968.

Ralph Baldner, A.B., M.A., Ph.D. Term expires November 1967.

Science

Frank P. Robinson, A.B., Ph.D. Term expires November 1968.

John N. Owens, B.S., M.S., Ph.D. Term expires November 1967.

Education

Robert Swailes, B.S.A., M.Ed. Term expires November 1968.

Maureen C. Hibberson, B.P.E., M.A. Term expires November 1967.

CHANCELLOR EMERITUS

Joseph B. Clearihue, M.C., E.D., Q.C., B.A. (*McGill* and *Oxon.*), M.A., B.C.L. (*Oxon.*), LL.D. (*Brit. Col.* and *U. of Vic.*).

DEAN EMERITUS

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

PROFESSORS EMERITI

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

G. Reid Elliott, B.A. (*Sask.*), Ph.D. (*Brit. Col.*), Professor Emeritus of Economics.

RECIPIENTS OF THE LL.D. (Honoris Causa)

*Charles Johnstone Armstrong, May 1961.

*Rosalind W. Young, May 1961.

Jeffree Aikin Cunningham, May 1964.

*Under the former affiliation with the University of British Columbia.

Walter Charles Koerner, November 1964.
W. Kaye Lamb, November 1964.
H. Roche Robertson, November 1964.
Louis-Albert Vachon, November 1964.
Bristow Guy Ballard, May 1965.
Thomas Rice Henn, May 1965.
Robert Wellington Mayhew, May 1965.
George Randolph Pearkes, May 1965.
Joseph Badenoch Clearihue, May 1966.
Leon Johnson Ladner, May 1966.
Phyllis Gregory Ross, May 1966.
William Andrew Cecil Bennett, May 1966.

UNIVERSITY OF VICTORIA FOUNDATION — ADVISORY BOARD

Thomas G. Denny (*Chairman*).
William H. Armstrong.
R. O. Bull.
Peter W. Carrodus, LL.B.
James R. Genge, M.A.
Justin V. Harbord.
H. Cuthbert Holmes, F.R.I., F.R.S.A., J.P., M.A.
Carron B. Jameson, B.Sc., D.M.D.
Robert W. Phipps.
John W. Porteous.
Richard B. Wilson, B.Comm.
Robert A. Wootton.

Honorary Members:

Joseph B. Clearihue, M.C., E.D., Q.C., B.A., B.C.L., LL.D.
W. Harry Hickman, M.A., Docteur de l'Université de Paris.
Robert W. McQueen, B.Comm., C.A.
Malcolm G. Taylor, B.A., M.A., Ph.D., LL.D.

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*).
Alexander G. Rankin, B.Comm., C.A.
Harry M. Evans, B.A.

Appointed by University of Victoria:

F. T. Tyler, B.Sc., M.A., M.Ed., Ph.D. Term expires November 1969.
R. E. L. Watson, M.A., Ph.D. Term expires November 1969.

Appointed by the University of British Columbia:

C. B. Bourne, B.A., LL.B.
Ian McTaggart Cowan, B.A., Ph.D., F.R.S.C.

Appointed by Simon Fraser University:

Ronald J. Baker, B.A., M.A.
C. D. Nelson, B.A., M.A., Ph.D.

Secretary: Dennis Franklin.

JOINT BOARD OF TEACHER EDUCATION

Representing 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, or his nominee.

The Dean of the Faculty of Education, Professor Neville V. Scarfe, 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, 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.

Fred T. Tyler, B.Sc., M.A., M.Ed. (*Alta.*), Ph.D. (*Calif.*), Dean of the Faculty of Education.

Robert T. D. Wallace, 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.

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

Robert W. McQueen, B.Comm. (*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.

Arthur J. Saunders, B.A.Sc. (*Brit. Col.*), P.Eng., Superintendent of Buildings and Grounds.

David H. Dunsmuir, B.A. (*Tor.*), Director of Information Services.

William G. Bender, B.A. (*Brit. Col.*), Personnel Officer.

Miss Catherine D. Cameron, Secretary to the President.

OTHER DIVISIONS

Accounting:

Robert W. McQueen, B.Comm. (*Brit. Col.*), C.A., Bursar.
M. Warren Davidson, Purchasing Agent.
Dennis G. Davis, C.A., Chief Accountant.
J. Gerald G. Underhill, B.Comm. (*Brit. Col.*), C.A., Accountant.
Mrs. Marjorie Sinclair, C.O.A., 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*), 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.
G. Robert Campbell, Systems Analyst.
Peter Hanlon, B.A. (*S.G.W.U.*), B.L.S. (*McGill*), Administrative Assistant.
Mrs. Helen M. Rodney, B.A. (*Alta.*), B.L.S. (*Tor.*), Head, Reference Division.
Miss Priscilla R. Scott, B.A. (*Brit. Col.*), B.L.S. (*Tor.*), Head, Circulation Division.
William R. Taggart, M.A. (*Man.*), B.L.S. (*McGill*), Head, Collections Division.
Mrs. June G. Thomson, B.A. (*Alta.*), M.A., B.L.S. (*Tor.*), Head, Cataloguing
Division.
Miss Ann Van der Voort, B.A. (*Queen's*), B.L.S. (*Tor.*), Head, Acquisitions Division.
Miss Jean I. Whiffin, B.A., B.L.S. (*Tor.*), Head, Serials Division.
Miss Marilyn E. Berry, B.A., B.L.S. (*Brit. Col.*), Circulation Librarian.
Mrs. Barbara Browne, B.A., B.L.S. (*Brit. Col.*), Cataloguer.
John O. Dell, B.A., B.L.S. (*Brit. Col.*), Cataloguer.
Mrs. Doris Eert, M.A. (*Cantab.*), B.L.S. (*Brit. Col.*), Cataloguer.
Robert W. Farrell, M.A. (*Dublin*), B.L.S. (*McGill*), Collections Librarian.
Joseph L. Gentry, B.A., B.L.S. (*Brit. Col.*), Reference Librarian.
Howard B. Gerwing, B.A., B.L.S. (*Brit. Col.*), Special Collections 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.
Nicholas T. Koerner, M.A. (*Brit. Col.*), B.L.S. (*McGill*), Cataloguer.
Miss Frances Roscoe, B.A. (*Our Lady of the Elms*), M.L.S. (*U.C.L.A.*), Cataloguer.
Harry Stastny, B.A. (*Brit. Col.*), B.L.S. (*McGill*), Collections Librarian.
Miss Grace Tuckey, B.A., B.S.W. (*Brit. Col.*), Curriculum Librarian.

Evening Division:

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

Mrs. Cora E. Browne, B.A. (*Brit. Col. - Vic. Coll.*), Assistant to the Director.

Summer Session:

Hugh S. Farquhar, M.A. (*Brit. Col.*), Director.

University Development Board:

Floyd A. Fairclough, Manager.

Women's Activities:

Mrs. Shirley Baker, B.Sc. (*Sask.*), Co-ordinator.

Mrs. Diana Caleb, B.A. (*Brit. Col. - Vic. Coll.*), Residence Director.

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.

- 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.*), Acting Systems Supervisor, Computer Centre; Part-time Lecturer, Mathematics.
- Archbold, Geoffrey J. D., B.A. (*Brit. Col.*), M.A. (*Cincinnati*), Assistant Professor, Classics.
- Auchinachie, Gerald M., B.A. (*Brit. Col.*), M.A. (*Tor.*), Instructor, English.
- Austin, A. Percival, B.Sc., Ph.D. (*Wales*), Assistant Professor, Biology.
- Baartz, Mrs. Alice L., B.S., M.A. (*Oregon*), Laboratory Instructor, Biology.
- Baartz, Arne P., M.A., Ph.D. (*Oregon*), Assistant Professor, Mathematics.
- Bakony, Leo I., B.A. (*Brit. Col.*), Ph.D. (*Wash.*), Professor, Economics and Political Science.
- Baldner, Ralph, A.B. (*Miami, Ohio*), M.A. (*Vanderbilt*), Ph.D. (*Calif.*), Assistant Professor, Modern Languages.
- Ball, Donald W., M.A. (*Calif.*), M.S. (*Oregon*), Lecturer, Anthropology and Sociology.
- 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, Fine Arts and Education.
- Barr, Iain Y. A., B.Sc. (*U.N.B.*), M.F. (*Brit. Col.*), Laboratory Instructor, Biology.
- Barrodale, Ian, B.Sc. (*Univ. Coll. of N. Wales*), M.Sc. (*Brit. Col.*), Instructor, Mathematics.
- Barron, David J., M.A. (*Aberdeen*), Instructor, English.
- Bars, Walter M., M.A. (*Brit. Col.*), Ph.D. (*Purdue*), Associate Professor, Physics.
- Beardsmore, Barrington F., B.A. (*Liverpool*), M.A. (*McMaster*), Instructor, Modern Languages.
- Bell, Marcus A. M., B.S.F. (*Brit. Col.*), M.F. (*Yale*), Ph.D. (*Brit. Col.*), Assistant Professor, Biology.
- Bell, Robert D., B.A. (*Sask.*), M.A. (*Oregon*), Instructor, Education, Co-ordinator of Athletics.
- 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.
- Best, Michael R., B.A., Ph.D. (*Adelaide*), Assistant Professor, English.
- Bishop, Roger J., B.A. (*Brit. Col.*), B.L.S., M.A. (*Tor.*), Professor, English. (Leave of absence 1967-68).
- Bourgès, Jeanne E., L. ès L. (*Toulouse*), Lecturer, Modern Languages.
- Bowden, Leon, B.Sc. (*London*), B.Litt. (*Oxon.*), Assistant Professor, Mathematics. (Leave of absence 1967-68).
- Brand, George A., B.A., M.Ed. (*Brit. Col.*), Professor, Assistant Director of Teacher Education, and Supervisor of Practice Teaching.
- Brown, Dennis E., M.A. (*London*), Instructor, English.
- Burg, Mrs. Ruthe R., M.S. (*Utah State*), Visiting Lecturer, Education.
- Cabañas, Pablo, Licenciado (*Madrid*), Doctor en Filosofía y Letras (*Madrid*), Visiting Professor, Modern Languages.
- Caleb, Mrs. Diana, B.A. (*Brit. Col. - Vic. Coll.*), Laboratory Instructor, Biology.
- Carl, G. Clifford, M.A. (*Brit. Col.*), Ph.D. (*Tor.*), Part-time Lecturer, Biology.

- Carson, John, M.A. (*Oxon.*), Associate Professor, Classics.
- Carter, R. A. L., B.A. (*R.M.C.*), M.A. (*Queen's*), Instructor, Economics and Political Science.
- Chabassol, David J., B.A., B.Ed. (*Acadia*), M.Ed. (*Tor.*), Ph.D. (*Alta.*), Associate Professor, Education.
- Cheffins, Ronald I., B.A., LL.B. (*Brit. Col.*), LL.M. (*Yale*), Associate Professor, Political Science and Public Law.
- Christiansen, Robert A., B.A., M.S., Ph.D. (*Iowa*), Assistant Professor, Mathematics.
- Christiansen, Mrs. Susan Beth, B.A., M.S. (*Iowa*), Lecturer, Mathematics.
- Christie, Mrs. Kathleen M., B.A. (*Brit. Col.*), Assistant Professor, Education.
- Clark, David W., B.A., B.Ed. (*Dalhousie*), Laboratory Instructor, Biology.
- Clark, Lewis J., B.A. (*Brit. Col.*), M.Sc. (*Wash.*), Ph.D. (*Oregon State*), Professor, Chemistry.
- Climenhaga, John L., M.A. (*Sask.*), Ph.D. (*Michigan*), Professor and Head of the Department of Physics; Honorary Professor, Astronomy.
- Cockayne, Ernest J., M.A. (*Oxon.*), M.Sc. (*McGill*), Instructor, Mathematics.
- Coldwell, Joan, M.A. (*London*), Ph.D. (*Harvard*), Assistant Professor, English.
- Corry, Michael R., B.A. (*U. of Vic.*), Laboratory Instructor, Biology.
- Crawford, Leslie W., M.S. (*E. Montana Coll.*), Assistant Professor, Education.
- Cross, William K., B.Ed. (*Brit. Col.*), Instructor, Education.
- Cutt, Mrs. Margaret N., M.A. (*Alta.*), Lecturer, English.
- Dane, Michael M., B.A. (*Wash.*), M.A. (*Harvard*), Assistant Professor, Modern Languages.
- Darling, Peter A., M.A.Sc. (*Brit. Col.*), P.Eng., Director, Computer Centre; Lecturer, Mathematics.
- Davidson, Roger R., B.Sc. (*Queen's*), M.A. (*Tor.*), Ph.D. (*Florida*), Assistant Professor, Mathematics.
- Deloume, Fernand E., B.A. (*Brit. Col.*), M.A. (*Tor.*), Ph.D. (*U.S.C.*), P.Eng. (*Brit. Col.*), Associate Professor, Mathematics.
- De Lucca, John, 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 of Philosophy.
- Dennis, Mrs. Mary M., M.S.A. (*Brit. Col.*), Laboratory Instructor, Biology.
- Dewey, John M., B.Sc., Ph.D. (*London*), Associate Professor, Physics.
- Dey, Jean D., M.Ed. (*Alta.*), Associate Professor, Education.
- Dilnot, Alan F., B.A., B.Phil. (*Oxon.*), Instructor, English.
- Dobereiner, John P., Dip.V.S.A., B.Ed. (*Brit. Col.*), M.F.A. (*Wash.*), Instructor, Fine Arts.
- Dosso, Harry W., B.A., M.Sc. (*Brit. Col.*), Associate Professor, Physics.
- Downes, Gwladys V., M.A. (*Brit. Col.*), Docteur de l'Université de Paris, Associate Professor, Modern Languages.
- Edell, Frederick, M.F.A. (*Yale*), Assistant Professor, Theatre.
- Edgell, Michael C. R., B.A. (*Birmingham*), Dip. Conservation (*London*), Instructor, Geography.
- 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.
- Efrat, Mrs. Barbara S., B.A. (*Pembroke Coll.*), M.A. (*Brown Univ.*), Part-time Lecturer, Classics.
- Efrat, Edgar S., B.A. (*Reed Coll.*), M.A., Ph.D. (*Texas*), Assistant Professor, Economics and Political Science.
- Elias, Wilma E., M.A. (*Sask.*), Ph.D. (*Brit. Col.*), Assistant Professor, Chemistry.
- Ellis, Derek V., B.Sc. (*Edin.*), M.Sc., Ph.D. (*McGill*), Associate Professor, Biology.
- Emery, C. Anthony, M.A. (*Oxon.*), Associate Professor, Fine Arts.
- Eshleman, Winston H., M.A. (*Stanford*), Assistant Professor, Education.
- Faber, Melvyn D., B.A. (*Chicago*), M.A., Ph.D. (*Calif.*), Assistant Professor, English.

- Farquhar, Hugh E., M.A. (*Brit. Col.*), Professor, Education; Director of Summer Session.
- Farrell, Bryan H., M.A. (*Wash.*), B.A., Ph.D. (*N.Z.*), Professor and Head of the Department of Geography.
- Fickas, Ernest, A.B., M.A., Ph.D. (*Calif.*), Assistant Professor, Mathematics.
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- Fleming, Jessie B., B.A. (*Brit. Col.*), M.A. (*Wash.*), Assistant Professor, Education.
- Fontaine, Arthur R., B.Sc. (*McGill*), D.Phil. (*Oxon.*), Associate Professor, Biology.
- Foord, Esme N., M.A. (*Queen's*), B.Paed., Ed.D. (*Tor.*), Associate Professor, Education; Director of Counselling and Testing.
- Forbes, Ernest, B.A., B.Ed. (*Mount Allison*), Instructor, History.
- Forbes, George H., B.A. (*Brit. Col.*), Instructor, English.
- Ford, Alan John, B.A. (*London*), Instructor, Modern Languages.
- Forrester, Elizabeth A. M., B.Sc. (*Glasgow*), M.A. (*Brit. Col.*), Laboratory Supervisor, Geography.
- Forward, Charles N., M.A. (*Brit. Col.*), Ph.D. (*Clark*), Associate Professor, Geography. (Leave of absence 1967-68).
- Foster, Harold D., B.Sc. (*London*), Instructor, Geography.
- Frenzel, K. Arnold, B.A. (*Pacific Lutheran*), M.A. (*Wash.*), Assistant Professor, Economics and Political Science.
- Friedmann, Gerhart B., B.Sc., M.A. (*Madras*), Ph.D. (*Brit. Col.*), Assistant Professor, Physics.
- Gaddes, D. Boyce, A.T.C.M., B.Mus. (*Oregon*), M.A. (*Wash.*), Associate Professor, Education.
- Gaddes, William H., M.A. (*Brit. Col.*), Ph.D. (*Claremont*), Professor and Head of the Department of Psychology. (Leave of absence 1967-68).
- Galloway, Charles G., B.A. (*Cent. Wash. State Coll.*), M.A. (*Harvard*), Ph.D. (*Calif.*), Assistant Professor, Education.
- Garvie, Peter, M.A. (*Cantab.*), Professor and Director of the School of Fine Arts, Honorary Lecturer in the Faculty of Arts and Science.
- Gibbins, Sidney G., B.S. (*Calif. Inst. Tech.*), Ph.D. (*Wash.*), Assistant Professor, Chemistry.
- Gilliland, Henry C., M.A. (*Brit. Col.*), Dean Emeritus of Education.
- Girard, Charlotte S. M., B.A. (*Brit. Col.*), M.A. (*Bryn Mawr*), Instructor, History.
- Girvan, Cecily, B.Sc. (*Mount Allison*), Laboratory Instructor, Physics.
- Goede, William J., B.A. (*Wis.*), Instructor, English.
- Gooch, Bryan N. S., M.A. (*Brit. Col.*), A.R.C.T. (*Tor.*), F.T.C.L. (*London*), Instructor, English.
- Gooch, Mrs. Velma, M.A. (*Alta.*), Lecturer, English.
- Gordon, William R., M.A. (*Brit. Col.*), Ph.D. (*Calif.*), Assistant Professor, Mathematics.
- Gordon, Mrs. Zulette, B.A. (*Brit. Col.*), M.A. (*Calif.*), Instructor, Mathematics.
- Goulson, Cary F., M.A. (*Brit. Col.*), Ed.D. (*Tor.*), Assistant Professor, Education.
- Gowans, Alan, M.A. (*Tor.*), M.F.A., Ph.D. (*Princeton*), Professor and Chairman of the Division of Art and Art History, Honorary Lecturer in the Faculty of Arts and Science.
- Graff, John Paul, A.B. (*Yale*), M.A. (*Calif.*), Instructor, Philosophy.
- Graham, Malcolm, B.S., M.D., C.M. (*McGill*), M.S. (*Iowa*), F.A.C.S., Honorary Research Associate, Psychology.
- Gregory, Charles, M.D., Ch.B. (*Liverpool*), Cert. R.C.P. and S.(C) Psych., Part-time Lecturer, Psychology.
- Griffiths, David A., M.A. (*Brit. Col.*), Docteur de l'Université de Paris, Associate Professor, Modern Languages.
- Groves, T. D. D., M.S.A. (*Brit. Col.*), Ph.D. (*Purdue*), Assistant Professor, Biochemistry; Part-time Lecturer, Bacteriology.
- Guerrera, Josefa, B.A. (*London*), Instructor, Modern Languages.

- Hagmeier, Edwin M., B.A. (*Queen's*), M.A., Ph.D. (*Brit. Col.*), Associate Professor, Biology.
- Hall, John F., A.M. (*Stanford*), M.S. (*Oregon State*), Assistant Professor, Education.
- Halliwell, Dean W., M.A. (*Sask.*), B.L.S. (*Tor.*), Head Librarian, Honorary member, Education.
- Hamdi, Fouad A., M.D. (*Alexandria*), Ph.D. (*Edin.*), Part-time Lecturer, Psychology.
- Hare, Carl R. D., M.A. (*Alta.*), Dip. R.A.D.A., Assistant Professor and Acting Chairman of the Division of Theatre.
- Hartinanshenn, Herta M., Ph.D. (*Marburg*), Associate Professor, Modern Languages.
- Harvey, Donald, A.T.D. (*Britain*), Assistant Professor, Fine Arts.
- Hayman, John G., M.A. (*Oxon.*), M.A. (*Cornell*), Ph.D. (*Northwestern*), Assistant Professor, English.
- Hendrickson, James E., B.A. (*Sask.*), B.Ed. (*Alta.*), M.A., Ph.D. (*Oregon*), Assistant Professor, History.
- Hendrie, Gerald M., M.A., Mus.B., Ph.D. (*Cantab.*), Associate Professor and Chairman of the Division of Music.
- Heron, Philip E., M.A. (*Calif.*), Instructor, English.
- Hewitt, Jay, B.A. (*Calif.-Santa Barbara*), M.A. (*Iowa*), Instructor, Psychology.
- Hibberson, Mrs. Maureen C., B.P.E. (*Brit. Col.*), M.A. (*Oregon*), Assistant Professor, Education.
- Hickman, W. Harry, M.A. (*Brit. Col.*), Docteur de l'Université de Paris, Professor and Head of the Department of Modern Languages.
- Higgins, Stella, B.A. (*U. of Vic.*), Part-time Lecturer, History.
- Hobson, Gordon Neville, M.A., Ph.D. (*Alta.*), Assistant Professor, and Acting Head of the Department of Psychology.
- Hogg, Mrs. Sheila M., B.A. (*U. of Vic.*), M.A. (*Wash.*), Lecturer, English.
- Horne, Edgar B., B.A.Sc., M.A. (*Brit. Col.*), Ph.D. (*Illinois*), Assistant Professor, Education.
- Howatson, Charles H., M.A. (*Brit. Col.*), Associate Professor, Geography.
- Hutchison, Alexander N., M.A. (*Aberdeen*), Instructor, English.
- Ingham, Donald G., B.Sc. (*U. of Vic.*), Laboratory Instructor, Physics.
- Jackman, Sydney W., Ph.D. (*Harvard*), F.R. Hist. S., Professor, History.
- Jain, Tikam C., M.Sc., Ph.D. (*Agra*), Assistant Professor, Chemistry.
- Jeffels, Ronald R., C.D., B.A., B.Ed. (*Alta.*), M.A. (*Cantab.*), Dean of Student Affairs and Registrar; Lecturer, Modern Languages.
- Jenkins, Anthony W., M.A. (*Cantab.*), Assistant Professor, English.
- Jennings, Stephen A., M.A., Ph.D. (*Tor.*), Professor and Head of the Department of Mathematics.
- Johns, A. Wilfrid, B.A. (*Wash.*), Associate Professor, Education.
- Johnson, James A., C.D., M.A. (*Dalhousie*), Counsellor.
- Johnson, Valdimar K., B.A. (*Pacific Luth.*), M.A. (*Calif.*), Assistant Professor, Education.
- Johnston, Mrs. Anne, M.Sc. (*McGill*), Part-time Lecturer, Bacteriology.
- Jones, J. Colin H., B.A. (*Univ. Coll. of Wales*), M.A. (*Montana State*), Ph.D. (*Queen's*), Assistant Professor, Economics and Political Science.
- Juricic, Zelimir, M.A. (*Brit. Col.*), Instructor, Modern Languages.
- Kennedy, Mrs. D. Elizabeth, M.A. (*Brit. Col.*), Associate Professor, Mathematics.
- Kenyon, David E. A., B.Sc. (*U. of Vic.*), Laboratory Instructor, Physics.
- Kess, J. F., B.Sc. (*Georgetown*), M.A. (*Hawaii*), Instructor, Linguistics.
- Kirk, Alexander D., M.Sc., Ph.D. (*Edinburgh*), Associate Professor, Chemistry.
- Knowles, Donald W., B.A., B.Ed., M.Ed. (*Alta.*), Assistant Professor, Education.
- Köster, Mrs. Patricia, B.A. (*Brit. Col.*), M.A. (*Calif.*), Ph.D. (*London*), Assistant Professor, and Director of Library Ordering, English.
- Kotorynski, Walter P., B.A. (*West. Ont.*), M.A., Ph.D. (*Tor.*), Assistant Professor Mathematics.

- Kriegel, Frederick, 2nd State Cert. (*Vienna*), Assistant Professor, Modern Languages.
- Kurth, Burton O., B.A. (*Brit. Col.*), Ph.D. (*Calif.*), Associate Professor, English.
- Kushnir, Slava Mary, M.A. (*McGill*), Docteur de l'Université de Bordeaux, Assistant Professor, Modern Languages. (Leave of absence 1967-68).
- Lambertson, Chester L., M.A. (*Alta.*), Ph.D. (*Harvard*), Associate Professor, English.
- Lanc, Robert B., A.B., Ph.D. (*Wash.*), Associate Professor, Anthropology and Sociology.
- Laudadio, Leonard, B.A. (*Puget Sound*), M.A., Ph.D. (*Wash.*), Associate Professor, Economics and Political Science.
- Lawrence, Robert G., M.A. (*New Brunswick*), Ph.D. (*Wisconsin*), Associate Professor, English.
- LeBerre, Alain, L. ès L. (*Paris*), Instructor, Modern Languages.
- Leeming, David J., B.Sc. (*Brit. Col.*), M.A. (*Oregon*), Instructor, Mathematics. (Leave of absence 1967-68).
- Littlepage, Jack L., B.A. (*San Diego*), Ph.D. (*Stanford*), Assistant Professor, Biology.
- Littlepage, Mrs. Ruby W., M.A. (*Stanford*), Laboratory Instructor, Biology.
- Lobb, D. E., M.Sc., Ph.D. (*Sask.*), Assistant Professor, Physics.
- Loft, Alfred E., B.A. (*Brit. Col.*), Assistant Professor, History.
- Lycan, D. Richard, B.S. (*Idaho*), A.M. (*Geo. Wash.*), Ph.D. (*Wash.*), Assistant Professor, Geography.
- McInerney, John Edward, B.Sc. (*Ottawa*), M.Sc., Ph.D. (*Brit. Col.*), Assistant Professor, Biology.
- McIntosh, Helen J., B.A. (*Man.*), M.A. (*Queen's*), Instructor, Modern Languages.
- McLaughlin, Mrs. R. Anne, B.Com. (*Brit. Col.*), Lecturer, Education.
- MacLaurin, Donald J., B.A.Sc. (*Brit. Col.*), M.S. (*Lawrence Coll.*), P.Eng. (*Brit. Col.*), Associate Professor, Chemistry. (Leave of absence 1967-68).
- MacLean, J. Beattie, B.A. (*Brit. Col.*), M.A., Ph.D. (*Wash.*), Associate Professor, Modern Languages.
- McLean, Hugh J., B.A., M.Mus. (*Cantab.*), Assistant Professor, Music.
- MacLeod, Robert A., B.Sc. (*Alta.*), M.Sc. (*Cal. Tech.*), Ph.D. (*Alta.*), Assistant Professor, Mathematics.
- McMullan, Mrs. Elinor, B.Sc. (*Brit. Col.*), Laboratory Instructor, Biology.
- McOrmond, G. Grant, C.D., M.A. (*Sask.*), Associate Professor, English.
- McQueen, Robert W., B.Com. (*Brit. Col.*), C.A., Bursar, and Part-time Lecturer in Economics and Political Science.
- Macey, Samuel L., B.A. (*Brit. Col.*), Ph.D. (*Wash.*), Assistant Professor, English.
- Martel, Emile, L. ès L. (*Laval*), Doctorado (*Salamanca*), Assistant Professor, Modern Languages.
- Martens, Fred L., B.A., B.Ed. (*Brit. Col.*), M.Sc. (*Wash.*), Associate Professor, Education.
- Martin, Richard K., B.A. (*Lehigh Univ.*), Instructor, Philosophy.
- Mason, Geoffrey P., M.A. (*Brit. Col.*), Ph.D. (*Wash. State*), Associate Professor, Education.
- Mason, Grenville R., B.A.Sc. (*Brit. Col.*), M.Eng. (*McMaster*), Ph.D. (*Alta.*), Assistant Professor, Physics.
- Matthews, J. Trevor, B.A. (*Brit. Col.*), M.B.A. (*Stanford*), Assistant to the President, and Part-time Lecturer, Economics and Political Science.
- Maunder, J. John, M.Sc. (*N.Z.*), Ph.D. (*Otago*), Assistant Professor, Geography.
- May, Richard B., B.A. (*Whitman*), M.A., Ph.D. (*Claremont*), Assistant Professor, Psychology.
- Mayne, Frederick, B.A., Ph.D. (*Witwatersrand*), Associate Professor, English.
- Menhenett, Mrs. Marjorie, B.A. (*Wellesly*), M.A. (*Calif.*), Instructor, English.
- Mentha, Jean-Pierre, L. ès Sc.Soc. (*Geneva*), M.Ed. (*Brit. Col.*), Assistant Professor, Modern Languages.
- Michelsen, John M., M.A. (*Wash.*), Instructor, Philosophy.

- Mitchell, Donald H., B.A., B.Com., M.A. (*Brit. Col.*), Instructor, Anthropology and Sociology.
- Money, John, B.A. (*Cantab.*), Instructor, History.
- Monk, Richard H. J., B.A. (*Brit. Col.*), M.Ed., Ph.D. (*Wash.*), Associate Professor, Education.
- Mordaunt, Jerrold L., M.A. (*Utah*), Instructor, Modern Languages.
- Moreau, Gerald, M.A. (*Laval*), Docteur de l'Université de Poitiers, Assistant Professor, Modern Languages.
- Morton, Alan R., M.S. (*Oregon*), Assistant Professor, Education.
- Moss, Kenneth Charles, B.Sc., A.R.C.S., D.I.C., Ph.D. (*London*), Assistant Professor, Chemistry.
- Muir, Douglas, 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.*), Honorary Research Associate, Psychology.
- Munro, John A., M.A. (*Brit. Col.*), Honorary Research Associate, History.
- Myles, Mrs. Eugenie L., M.A. (*Alta.*), Lecturer, English.
- Noble, Mrs. O. Phoebe, B.A. (*Brit. Col.*), Associate Professor, Mathematics.
- O'Brien, Robert N., M.A.Sc. (*Brit. Col.*), Ph.D. (*Manchester*), Associate Professor, Chemistry.
- Odeh, Robert E., M.S., Ph.D. (*Carnegie Inst. of Tech.*), Associate Professor, Mathematics.
- O'Grady, Geoffrey Noel, B.A. (*Univ. of Sydney*), Ph.D. (*Indiana*), Associate Professor, Linguistics.
- Owen, Edward E., M.A. (*Auckland*), Assistant Professor, Education. (Leave of absence 1967-68).
- Owens, John N., B.S. (*Portland State*), M.S., Ph.D. (*Oregon State*), Assistant Professor, Biology.
- Paden, John W., B.S. (*Calif.*), M.S. (*Idaho*), Instructor, Biology.
- Paget, Mrs. Barbara G., B.Sc. (*Brit. Col.*), Laboratory Instructor, Biology.
- Pal, I. D., M.A. (*Panjab*), M.Sc., Econ. (*London*), Ph.D. (*McGill*), Associate Professor, Economics and Political Science.
- Palmer, Charles, B.Mus., M.A. (*Oxon.*), A.R.C.M., A.R.C.O., Conductor of University Choir, Fine Arts.
- Pearce, R. Michael, B.Sc. (*McGill*), M.A., Ph.D. (*Brit. Col.*), Professor, Physics.
- Peavy, R. Vance, M.A. (*Colorado State Coll.*), D.Ed. (*Oregon*), Assistant Professor, Education.
- Peet, Robert M., B.A., M.B., B.Ch., B.A.O., M.D. (*Trinity Coll., Dublin*), M.R.C.P.I., M.S. (*Minn.*), F.R.C.P. (C), Part-time Lecturer, Psychology.
- Peter, John D., M.A. (*Cantab.*), B.A., LL.B., D.Litt. (*S. Africa*), Professor, English.
- Pettit, Sydney G., M.A. (*Brit. Col.*), Professor and Head of the Department of History.
- Pitt, David C., B.A. (*N.Z.*), B.Litt., D.Phil. (*Oxon.*), Assistant Professor, Anthropology and Sociology.
- Pittman, Philip M., A.B. (*Kenyon Coll.*), M.A. (*Vanderbilt*), Instructor, English.
- Pope, Clyde R., B.A. (*Anderson College*), M.A. (*Chicago*), Ph.D. (*Oregon*), Assistant Professor, Anthropology and Sociology.
- Powers, Richard J., B.A. (*New Mexico*), M.A., Ph.D. (*Claremont*), Assistant Professor, Economics and Political Science.
- Prohom, Christian H., B.A. (*Alta.*), Instructor, Modern Languages.
- Ramaswamy, V., M.Sc. (*U. of Kerala*), Laboratory Instructor, Physics.
- Redle, Karleen G., B.A. (*Wash. U. St. Louis*), M.A. (*Indiana*), Instructor, English.
- Reid, Robert G. B., B.Sc., Ph.D. (*Glasgow*), Assistant Professor, Biology.
- Riedel, Walter, B.Ed., M.A. (*Alta.*), Ph.D. (*McGill*), Assistant Professor, Modern Languages.
- Ring, Richard A., B.Sc., Ph.D. (*Glasgow*), Assistant Professor, Biology.
- Roberts, Llewellyn N., M.D. (*Tor.*), F.R.C.P.(C), F.A.C.P., Honorary Research Associate, Psychology.

- Robertson, Lyle P., M.A., Ph.D. (*Brit. Col.*), Associate Professor, Physics.
- Robinson, Frank Price, A.B. (*Fisk*), Ph.D. (*Alta.*), Assistant Professor, Chemistry.
- Robinson, Judith E., B.A. (*Vassar*), M.Sc. (*Michigan*), Instructor, Astronomy.
- Ross, Eric D., M.A. (*New Bruns.*), Ph.D. (*Edinburgh*), Assistant Professor, Geography.
- Rowe, Christopher M., B.A. (*Liverpool*), Instructor, History.
- Roy, Patricia, B.A. (*Brit. Col.*), M.A. (*Tor.*), Instructor, History.
- Roy, Reginald H., C.D., M.A. (*Brit. Col.*), Ph.D. (*Wash.*), F.R. Hist. S., Associate Professor, History.
- Ruth, Roger A., M.S. (*Emporia State*), Assistant Professor, Education.
- Ryce, Stephen A., B.A., Ph.D. (*Brit. Col.*), Associate Professor, Chemistry.
- Saddlemeyer, Ann, B.A. (*Sask.*), M.A. (*Queen's*), Ph.D. (*London*), Associate Professor, English, and Director of English Honours Programme.
- Sainte-Marie, Micheline, B.A. (*Montreal*), Instructor, Modern Languages.
- Sandhu, Harbhajan S., M.Sc. (*Panjab*), Ph.D. (*Brit. Col.*), Assistant Professor, Physics.
- Sargent, Mrs. Jean, B.A. (*Brit. Col.*), Ph.D. (*Tor.*), Lecturer, Mathematics.
- Scarfe, Colin, M.Sc. (*Brit. Col.*), Ph.D. (*Cantab.*), Assistant Professor, Astronomy.
- Scargill, M. H., B.A., Ph.D. (*Leeds*), Professor and Head of the Department of Linguistics, Chairman of the School of Graduate Studies.
- Sewell, W. R. Derrick, B.Sc. (*London*), M.A., Ph.D. (*Wash.*), Associate Professor, Geography and Economics and Political Science.
- Sheehy, Charles A., M.A. (*Glasgow*), Instructor, Modern Languages. (Leave of absence 1967-68).
- Shelton, W. George, M.A. (*Man.*), Ph.D. (*Penn.*), Assistant Professor, History.
- Sheppy, John J., B.A., M.Ed. (*Brit. Col.*), Instructor, Education.
- Shoffner, Edward B., A.B. (*San Diego*), Technical Supervisor and Part-time Lecturer, Theatre.
- Shrimpton, Gordon S., M.A. (*Brit. Col.*), Instructor, Classics.
- Simmons, Howard J., B.Sc. (*M.I.T.*), Ph.D. (*Illinois*), Assistant Professor, Psychology.
- Simpson, James E., B.Sc.F. (*Tor.*), Laboratory Instructor, Biology.
- Singh, Gur S., M.B., B.S. (*Punjab*), F.R.C.S.(C), Honorary Research Associate, Psychology.
- Skelton, Robin, M. A. (*Leeds*), F.R.S.L., Professor and Director of Creative Writing, English.
- Small, Mrs. Marion A., B.Ed. (*Brit. Col.*), M.Ed. (*West. Wash.*), Instructor, Education.
- Smith, Brian R. D., B.A., LL.B. (*Brit. Col.*), M.A. (*Queen's*), Part-time Lecturer, History.
- Smith, Derek G., B.A. (*Brit. Col.*), A.M. (*Harvard*), Instructor, Anthropology and Sociology.
- Smith, George E., B.A., M.Ed. (*Brit. Col.*), Assistant Professor, Education.
- Smith, H. Paul, B.A., M.Ed. (*Brit. Col.*), Instructor, Mathematics.
- Smith, Nelson C., A.B. (*Princeton*), M.A.T. (*Oberlin*), Instructor, English.
- Smith, Peter L., B.A. (*Brit. Col.*), M.A., Ph.D. (*Yale*), Associate Professor and Chairman of the Department of Classics.
- Spreen, Otfried, B.A. (*Bonn*), Dipl. Psych., Ph.D. (*Freiburg*), Associate Professor, Psychology.
- Steele, Mrs. Bérangeère B., L. ès L. (*Paris*), Assistant Professor, Modern Languages.
- Stenton, Donald E., B.Sc. (*Brit. Col. - Vic. Coll.*), Laboratory Supervisor, Physics.
- Styles, E. Derek, B.S.A. (*Brit. Col.*), Ph.D. (*Wisc.*), Assistant Professor, Biology.
- Sullivan, Harry M., M.Sc. (*McGill*), Ph.D. (*Sask.*), Assistant Professor, Physics.
- Summerfield, Henry, M.A. (*Oxon.*), M.Litt. (*Durham*), Assistant Professor, English.
- Swales, Robert, B.S.A. (*Man.*), M.Ed. (*Brit. Col.*), Assistant Professor, Education.
- Swainson, Neil A., B.A., B.Ed., M.A. (*Brit. Col.*), Associate Professor, Economics and Political Science.

- Synington, Rodney T. K., B.A. (*Leeds*), Instructor, Modern Languages.
- Taylor, Malcolm G., M.A., Ph.D. (*Calif.*), LL.D. (*Alta.*), President, and Professor of Political Science.
- Teece, David W., B.Sc. (*U. of Vic.*), Laboratory Instructor, Physics.
- Terry, Reginald C., M.A. (*Bristol*), Instructor, English. (Leave of absence 1967-68).
- Thatcher, David S., B.A. (*Cantab.*), M.A. (*McMaster*), Instructor, English.
- Thomas, Brian H., B.A. (*Man.*), M.A. (*Tor.*), Instructor, English.
- Thomas, David C., B.Ed. (*Brit. Col.*), M.A., Ph.D. (*Oregon*), Assistant Professor, Education.
- Thompson, Neil V. J., B.A. (*London*), Instructor, Modern Languages.
- Thompson, R. Ann M., B.Sc. (*U. of Vic.*), Laboratory Instructor, Biology.
- Thomson, Joseph W., B.A. (*New Jersey*), M.A. (*Illinois*), Assistant Professor, Education.
- Thornton, Kenneth R., B.Sc., M.B., Ch.B. (*Leeds*), Honorary Research Associate, Psychology.
- Tolman, Charles W., M.S., Ph.D. (*Wash.*), Assistant Professor, Psychology.
- Tumber, Derek A., B.A. (*Liverpool*), M.A. (*Alta.*), Instructor, Classics.
- Turner, Mrs. Elizabeth M., B.Sc. (*Alta.*), Laboratory Instructor, Physics.
- Tyler, Fred T., B.Sc., M.A., M.Ed. (*Alta.*), Ph.D. (*Calif.*), Professor and Dean of the Faculty of Education; Honorary Lecturer, Faculty of Arts and Science.
- Tyler, James L., B.A. (*Whitman*), M.A. (*Oregon*), Instructor, Mathematics.
- van den Driessche, Pauline, M.Sc. (*Imp. Coll.*), D.I.C., Ph.D. (*Univ. of Wales*), Assistant Professor, Mathematics.
- Vaughan, Mrs. K. Diane, B.A., M.D. (*Brit. Col.*), Part-time Lecturer, Biology.
- Vilquin, Jean-Claude, L. ès L. (*Capes*), Visiting Assistant Professor, Modern Languages.
- Vinay, Jean-Paul, 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, Linguistics and Modern Languages.
- Vinay, Mrs. Marie-Paule, docteur en psychologie, docteur en sciences politiques, économiques et sociales (*Paris*), Part-time Lecturer, Modern Languages.
- Virgo, Sean R., B.A. (*Nottingham*), Instructor, English.
- Walker, Ian S., B.Sc., Ph.D. (*Adelaide*), Dip. Ed. (*Melbourne*), Assistant Professor, Chemistry.
- Wallace, Elaine, B.A. (*London*), Docteur de l'Université de Poitiers, Assistant Professor, Modern Languages.
- Wallace, Robert T. D., M.A. (*Brit. Col.*), Professor, Mathematics; Dean of Administration; Director of Evening Division; Acting Director of Summer Session.
- Walsh, Virginia E., B.A. (*DePauw*), M.A., Ph.D. (*Oregon*), Assistant Professor, Mathematics.
- Warburton, T. Rennie, B.A. (*Leeds*), Ph.D. (*London*), Assistant Professor, Anthropology and Sociology.
- Warkentyne, H. J., B.A. (*West. Ont.*), M.A. (*London*), Instructor, Linguistics.
- Watson, Roy E. L., M.A., Ph.D. (*Tor.*), Associate Professor and Chairman of the Department of Anthropology and Sociology.
- Watt, Gordon A. J., M.A. (*Aberdeen*), Instructor, English. (Leave of absence 1967-68).
- Weaver, John T., B.Sc. (*Bristol*), M.Sc., Ph.D. (*Sask.*), Assistant Professor, Physics.
- Westmark, Tory I., B.Ed. (*Alta.*), M.Ed., D.Ed. (*Oregon*), Associate Professor Education.
- Williams, Trevor L., B.A. (*Manchester*), Instructor, English. (Leave of absence 1967-68).
- Wood, Alex. J., M.S.A. (*Brit. Col.*), Ph.D. (*Cornell*), Professor, Biochemistry; Lecturer, Bacteriology; Dean of the Faculty of Arts and Science; Honorary Lecturer, Faculty of Education.

- Wootton, Miss Carol, B.A. (*U. of Vic.*), A.R.T.C. (*Tor.*), L.R.S.M. (*London*), Instructor, English.
- Wright, K. O., M.A. (*Tor.*), Ph.D. (*Michigan*), Honorary Professor, Astronomy.
- Wright, R. Leslie D., M.A. (*Brit. Col.*), Ph.D. (*Tor.*), Assistant Professor, Psychology.
- Wu, Chi-Shiang, B.S. (*Nat. Taiwan U.*), M.S., Ph.D. (*Western Reserve U.*), Assistant Professor, Physics.
- Zietlow, Edward R., M.A. (*Boston*), Ph.D. (*Wash.*), Assistant Professor, 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 co-operation of the Department of National Defence and the Hudson's Bay Company) the 284-acre campus at Gordon Head was acquired. Academic expansion was rapid after 1956, until in 1961 the College, still in affiliation with U.B.C., awarded its first bachelor's 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. Joseph B. Clearihue, who was first associated with the former Victoria College in 1902 as a student, became the first Chancellor of the University in the autumn of 1963. Dr. Malcolm Gordon Taylor was appointed first President of the University in July 1964. Richard B. Wilson was elected Chancellor of the University by acclamation in September 1966 for a term beginning January 1, 1967.

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 College System

As the University grows so, too, does the danger that its members will lose contact with one another. The college system is designed to give every student a greater sense of identity.

The strength of a college lies in its diversity. Because its members will come from various years, departments and faculties of the University, a college can provide students with a fuller and more rewarding life on campus in the exchange of ideas between the arts and the sciences, and by counteracting the separation between those students who live in the residences and those who live in the city. It is hoped that the new colleges will engage students who commute to the campus more fully in the life of the University, since they may enjoy the same facilities as those who live on campus.

The colleges will not be directly involved in administration or instruction. However, in the important areas of cultural and social life they will have a major role

to play. Lectures, concerts, sports, dances, symposia, exhibitions, drama — the list is endless, the possibilities unlimited. Student government, refashioned perhaps in federal fashion, will reflect and further the needs of college and university. It is also hoped that from each college will emerge fresh ideas on education in the whole University which will provide ways of experimenting with new academic patterns.

By the fall term of 1967, four residences (two men's and two women's) accommodating some 300 students will have been completed on the university campus, and these will form the first stage of the college plan. It is then expected that the buildings for two complete colleges will be ready to open in September 1968. A college will consist of four residences (two men's and two women's) linked to a central dining hall, and will include study space, small classrooms, offices for its faculty members, a coffee shop and lounges. Since the aim is to create in each college (approximately 300 residential and 700 day students) a cross section of the University's varied life, facilities for dining, recreation and study will, at the same time, be established as the nucleus of two further colleges, so that every student on campus may share the opportunities of these new academic communities. The colleges should ensure that University life goes beyond the classroom.

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)
Men's Residences (1967)

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
B.F.A. — under consideration
B.Mus. — under consideration
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 is published separately. Credit courses offered through Evening Division are published in the regular Calendar.

For the Session 1967-68 the University offers the following degrees through the Faculty of Arts and Science, the Faculty of Education, the School of Fine Arts, and the School of Graduate Studies: B.A., B.Sc., B.Ed. (a five-year degree preparing teachers for the Elementary and Secondary schools of the Province; or a four-year degree preparing Elementary teachers); B.F.A., B.Mus., M.A., M.Sc., Ph.D. In addition, the School of Fine Arts offers a four-year Diploma in studio 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 217. **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.

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. If, in the first two years of a degree programme, students undertake more than the minimum thirty units required, they may not receive credit in higher years for these extra units. However, second-year students who have already obtained partial credit in second year but who must still undertake additional courses to complete the work of the first two years may register for courses to be credited to the third year.

3. In the third and fourth years a minimum total of 30 units is required. However, students are reminded that to qualify for nearly all scholarships, bursaries, prizes and loans a student is required by the terms of the award to undertake a minimum of 15 units of work in each year.

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 (Grade 12), 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 of 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. Normally, all students must complete the final year at the University of Victoria.

9. Fourth-year undergraduates, with high standing in an Honours Programme, are eligible to apply for admission to graduate-level courses, subject to the approval of the Department or Faculty concerned, which in turn will notify the School of Graduate Studies.

APPLICATION FOR ADMISSION

1. Students seeking admission for the first time must obtain an **Application for Admission** form from the Office of the Registrar. This form will be available after May 1, and must be returned, fully completed and accompanied by all official transcripts, to the Registrar on or before August 15.
2. Students who were registered at the time of the final examinations in April 1967 must apply for re-registration on or before June 30, using forms sent to them by the Office of the Registrar at the time statements of marks for the session 1966-67 are mailed.
3. Students previously registered but not registered at the time of the final examinations in April 1967 must apply for re-registration on or before August 15, using an **Application for Admission** form available from the Office of the Registrar after May 1.
4. Students seeking admission to the School of Graduate Studies should consult page 199.
5. 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 the dates stipulated above will be subject to a late application fee of \$25.00.
6. 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 qualifications for admission to the University are as follows:

- (a) Students must have fulfilled the requirements for graduation from senior secondary school in the Academic-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. One of:
Bi. 12
Ch. 12
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. Students who register in the Faculty of Arts and Science and who intend to transfer at a later date into the Faculty of Education (five-year 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 pages 156 and 168.

These qualifications are approved by the Senate of the University. Grade 12 examinations are 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 Secondary 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.

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 or 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.

Quebec — McGill Senior School Certificate or its 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, the Faculty of Education, or the School of Fine Arts.
- (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, the Faculty of Education, or the School of Fine Arts, 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, the Faculty of Education, or the School of Fine Arts.

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 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) 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) **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 credit for Grade 13 courses taken subsequently, subject to provisions (i), (ii), and (iii) of 3(a) and the special regulations for adult students.

4. 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 or School, a student may not receive a degree unless he completes the equivalent of two winter sessions in attendance at the University.

5. Registration for one course only: Students taking one course only of the Regular Session offerings must register by mail through the Evening Division. Applications must be received in the Registrar's Office by September 7. **Registration without penalty must be completed by September 15.** On and after September 16 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 23.

6. 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.

7. 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.

REGISTRATION

1. Change of Programme: A student who wishes to transfer to another Faculty or School within the University should notify the Registrar of his intention as early as possible before his application is due.

2. 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: In addition to completing the procedures mentioned on page 31 under the heading Application for Admission, all students in the Regular Session are required to register in person at times announced by the Registrar's Office. Each student, by his Notice of Admission or Notice of Eligibility, will be informed of the time and place for registration in person. 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 or School in which I am registered, and to any amendments thereto which may be made while I am a student of the University, and I promise to observe the same.

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 23.

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

5. **One-Term Courses:** Students must register in September for all courses they intend to undertake during the session. This includes half courses which begin in January.

6. **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 of the Registrar.

7. **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 the Faculty of Arts and Science, the Faculty of Education, or the School of Fine Arts who is registered in 15 to 18 units and who has no deficiencies in his previous academic record.

2. **Conditioned:** A student proceeding to a degree with defects in his standing which do not prevent his entering a higher year.

3. **Unclassified:** 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 an unclassified student obtains sufficiently high standing and indicates his desire to proceed to a degree, he may later be given credit by the Faculty or School concerned for all or part of the work taken.

4. **Probationary or Repeater:** This category includes students who, because of marginal records upon admission, are placed on probation either until Christmas or for the full academic year. It also includes those students previously registered at the University whose records show a failed year.

5. **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. Students may not normally 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 Registrar, and medical certificates or other evidence must be presented for absence of three days or more.

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, Faculty or School 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.

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.

EXAMINATION TIMETABLES

Preliminary drafts are posted on official University bulletin boards approximately three weeks before the dates announced for the beginning of Christmas and final examinations. The final versions are posted about one week before the first day of examinations. Students are required to inform the Registrar's Office immediately of any conflicts in the preliminary drafts of examination timetables.

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 grades. Students in the Faculty of Education will receive their statements of grades early in June. The results of Christmas examinations are released by instructors, not by the Registrar's Office.

RE-READING OF EXAMINATION ANSWER PAPERS

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

Re-reading, where permitted by the Faculty or School 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 \$7.50, which will be refunded only if the grade 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.

EVALUATION OF STUDENT ACHIEVEMENT

The following letter grades are used in evaluating student achievement:

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

The following abbreviations appear in student records, statements of marks, and transcripts wherever their use is required:

Aeg	Aegrotat
Com	Completed (where no grade is awarded)
Def	Deferred
Dr	Dropped officially
Inc	Incomplete
N	Did not write

Please note deferred examinations are not granted at Christmas. The grade E is not granted in Summer Session nor in Evening Division since students are not entitled to write supplementals. Although the grade E is awarded at Christmas examinations, it does not grant supplemental privileges; it gives the student an indication of his achievement in a particular course.

STANDING AND CREDIT

1. 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 6.5 or higher;

Second Class, a grade point average of 3.5 or higher;

Passed, a grade point average of 1 or higher.

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

3. Courses for which credit has not been obtained must be repeated, or permissible substitutes taken, in the next regular session attended. **Except in the case of English 100, 200, 201 or 203, no course may be repeated more than once.** In the winter session the total of all courses may not exceed 18 units.

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

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.

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. Free copies may not be accumulated.

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 normally be required to withdraw permanently.

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 E 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."

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

The fee for each supplemental examination written at the University 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 43 under "Other Fees and Charges."

FEES

General Regulations — All Programmes

1. The University reserves the right to change fees without notice.
2. Fees are not transferable from one session to another.
3. A late application fee of \$25.00 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 31. However, no student will be required to pay this fee if he also incurs the fee for late registration mentioned below.
4. A late registration fee, additional to all other fees, will be charged when permission to register late is granted. 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. A late payment fee, additional to all other fees, will be charged when fees are not paid in full by the following dates.

Winter Session and Evening Division

First term — September 26, 1967

Second term — January 16, 1968

Summer Session — at the time of registration.

This fee is \$20.00 for Winter Session, and \$10.00 for Evening Division and Summer Session.

6. 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.
7. Students are advised to pay fees by certified cheque payable to "University of Victoria." Those students who do not pay by certified cheque, and whose cheques are returned by their banks, will be charged a fee of \$3.00.
8. 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 in the first term will be applied against unpaid second term fees, unless the student requests payment at the Accounting Office in September. Any excess balance in the second term will be paid to the student at the beginning of the second term.
Certain scholarships and bursaries are paid by cheque drawn in favour of the student. If these cheques are not endorsed and applied against fees by September 26, 1967, and January 16, 1968, respectively, the regulations covering late payment fees will apply.
9. **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.**
10. Auditors will pay one half of regular tuition fees, but in certain courses of a practical nature where auditors participate in all aspects of the work (except the examinations), full fees must be paid.

Undergraduate Programme — Winter Session

1. Tuition fees for a course of 12 or more units are \$214.00 per term.
2. Tuition fees for a course of less than 12 units are \$15.00 per unit per term.
3. 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.
4. **First term tuition fees and the Alma Mater Society fee, together with the Graduating Class fee and late fees where required, are due and payable in full at the time of registration.**
5. **In order to avoid late payment penalties, students who intend to use Canada Student Loans to pay their fees should apply for these loans as soon as they receive notices of admission.**
6. Second term tuition fees may be paid at any time during the first term, but become due and payable 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.
7. If fees, including late payment fees, are not paid in full by October 7, 1967, in the first term and by January 31, 1968, in the second term, the registration of students concerned may be cancelled.

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.

8. The following amounts of tuition and Alma Mater Society fees 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 — \$2.00 per unit plus \$1.00 Alma Mater Society fee per week.

Second term — \$2.00 per unit per week.

No refund will be made of first term fees after October 28, 1967, and of second term fees after January 20, 1968.

Undergraduate Programme — Summer Session

1. Tuition fees of \$30.00 per unit and a Student Union fee of \$2.00, together with the Graduating Class fee and late fees where required, are due and payable in full at the time of registration.
2. The Student Union fee, authorized by the Board of Governors, is administered by the Alma Mater Society and contributes towards the operation of the Student Union Building.
3. An amount equal to one-fifth of the student's fees will be charged when a student notifies the Registrar officially of his cancellation of registration, or his withdrawal from the University, during or before the first week of lectures. No refund of fees will be made after this date.

Undergraduate Programme — Evening Division

1. Tuition fees are \$15.00 per unit per term.
2. Regulations regarding payment of fees are the same as those for the Winter Session.
3. An amount of \$2.00 per unit will be charged for each week, or part of a week, of lectures prior to the date on which the student notifies the Director of Evening Division officially of his cancellation of registration, or his withdrawal from the University. No refund will be made of first term fees after October 28, 1967, and of second term fees after January 20, 1968.

Graduate Programmes — All Sessions

1. An application fee of \$5.00 must 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 Graduate Student Society fee of \$30.00 must be paid once each year at the time of registration by all full-time students.
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. No student shall be assessed more than \$450.00 in tuition fees in any one winter session.

10. 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.
11. 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. A fine of \$2.00 will be imposed for infraction of University parking and traffic regulations. Fines will be imposed for infraction of Library regulations in amounts determined by the Head Librarian.

Fines imposed prior to November 1 which, together with any previously assessed penalties, remain unpaid at November 30, will be increased by \$1.00.

Fines imposed prior to January 1 which, together with any previously assessed penalties, remain unpaid at January 31, will be increased by \$1.00.

Fines imposed prior to March 1 which, together with any previously assessed penalties, remain unpaid at March 31, will be increased by \$1.00.

Fines imposed prior to May 1 which, together with any previously assessed penalties, remain unpaid at May 31, will be increased by \$1.00.

These increases will be accumulated so long as a fine remains unpaid; however, no fine shall be increased by more than \$4.00. Transcripts will not be issued, and re-admission to University may be denied to those who have not paid outstanding fines and penalties.

3. Rates for board and lodging in the University residences are listed on page 46.

4. 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\$ 7.50

Fee for transcripts of academic record: one copy free of charge at the completion of each year; three copies free of charge following graduation; additional copies supplied at a charge of 50¢ each. Free copies may not be accumulated.

Student Aid Programmes

Student Aid programmes are administered by the Admissions and Awards Officer, Registrar's Office. Students seeking advice about scholarships, fellowships, prizes, bursaries and loans should direct inquiries to the Admissions and Awards Officer.

Student Medical Coverage

Students are strongly urged to obtain medical insurance coverage. Details of available plans, may be obtained from the office of the University Health Service.

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 1967, the book collection totalled approximately 275,000 volumes, and was growing at a rate of over 50,000 volumes annually. The Library regularly receives nearly 3,000 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. 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*. Full Library privileges are extended to all University of Victoria students, faculty and staff, 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 prerequisite 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, using vocational tests 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.

Canada Manpower Centre:

The Student Placement Office, operated by the Canada Manpower Division, Department of Manpower and Immigration, is located on the campus. It is operated on a full-time basis, open Monday through Friday.

Graduates, graduands and undergraduates seeking permanent employment are urged to register before the end of October with the placement office. Early registration is recommended because many employers complete their recruiting visits in early November.

Students seeking part-time work during the academic year or temporary work during Christmas holidays are requested to register early with the placement office. Those students seeking temporary summer work only, need not register until January.

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.

Students who wish to arrange for an interview with the Student Placement Officer or an employer's representative are invited to make an appointment.

UNIVERSITY BOOKSTORE

The Bookstore, located in the Campus Services Building, 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 textbooks 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 provide informative supplementary reading and valuable reference material for essay writing.

Also available are lab. coats, slide rules, briefcases, and art supplies as well as all general supplies such as notebooks, looseleaf 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 Co-ordinator of Women's Activities. Applications received later than July 31 will not be considered. Assignment of rooms will be completed August 7 for students who have returned their completed application forms (including a caution money deposit of \$25). All assignments are conditional upon acceptance of the student to this University by the Registrar.

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 Co-ordinator of Women's Activities by August 25.
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 Co-ordinator of Women's Activities 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 1967-68 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 11, 1967, and the second term payments before December 15, 1967.

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 Co-ordinator of Women's Activities. 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. 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 (Office of the Co-ordinator of Women's Activities), before they accept accommodation obtained through newspaper advertisements.

Cafeteria

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

UNIVERSITY HEALTH SERVICE

The University Health Service consists of an Out-Patient Department located in Building K.

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 9:00 a.m. to 12 noon on Saturday. A doctor is in attendance for consultation 10:00 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.

Students are urged to bring any problems of University life to the Health Service before such problems have developed to a serious stage. Consultative psychiatric service is available if required.

All students are advised to enrol in the B.C. Medical Plan. Students who have lived in British Columbia one year may be eligible for a subsidy of their premiums. Other students may purchase the plan at the full rates or a modified form of insurance under the University Health and Accident Plan. For further information consult the Health Service.

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 co-ordinates 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 accounts 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 representatives 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 1967-68: Mr. David McLean
1966-67: Mr. Stephen Bigsby
1965-66: Mr. Paul Williamson
1964-65: Mrs. Olivia Barr
1963-64: Mr. Laurence E. Devlin

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 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, except C.O.T.C. (Army) for which maximum ages vary from 26 to 28 years dependent upon corps to be entered. With special approval they may be enrolled prior to their 17th birthday.

The training programme 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 \$355.00 per month plus transportation travelling expenses, and medical services. A deduction of \$95.00 per month is made for provided board and room. 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 \$125.00, and basic pay of \$180.00 increasing to \$185.00 effective October 1, 1967, 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 Chief of Personnel, Directorate of Recruiting, Canadian Forces Headquarters, Ottawa, Ontario.

Students interested in joining the University Service Training Corps at the University of Victoria should communicate 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.). All departments offer programmes leading to the degree with Honours.

Registration and Admission

1. Registration must be completed in accordance with regulations on page 34.
2. After September 23, 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 of the Registrar.

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. Students who plan to undertake work at other universities must receive prior approval from the Dean or the Registrar if they wish such courses to be credited towards a degree at the University of Victoria. Upon successful completion of such work, the student must request the Registrar of the other university to send an official transcript of record to the Registrar of the University of Victoria. 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.
4. Students in attendance at the University may not register for extra-mural or correspondence work to be taken concurrently.
5. Although candidates may complete degree requirements by registration in Summer Session and Evening Division, all candidates are urged to register as full-time students for at least one Winter Session, preferably that of the Final Year.

COURSES LEADING TO THE DEGREE OF B.A.

The following tabulation shows the requirements for the B.A. degree:

	FIRST AND SECOND YEARS					THIRD AND FOURTH YEARS							
	English	Language	Groups A & B	Electives	Honours	HONOURS Sec Departmental Prescriptions	MAJOR			GENERAL			
							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
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
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, 201 or 203 in the Second Year.
- (c) To fulfil the language requirement, a student must complete the study of one language (French, German, Greek, Italian, 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 addition to the above, 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.Se. degree is still un-

decided, 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. Except where advanced placement in a subject has been granted or departmental permission has been obtained to take a course from Section II, all courses for First-Year credit must be chosen from Section I. Courses for Second-Year credit may be chosen from Section I or Section II.

GROUP A

Section I

French 140 or 180
 German 100 or 140
 Greek 100
 History 101, 102, 200,
 201, 204, 212
 Italian 100
 Latin 100 or 140, 240
 Mathematics 130
 Philosophy 100
 Russian 100
 Spanish 100 or 140

Section II

*Classical Studies 200, 310, 315, 330, 340
 *English 202, 245
 French 240 or 280, 290
 German 240 or 260, 290
 Greek 200
 *History 304 or 400
 Italian 200
 Latin 320, 330, 340, 350
 Mathematics 206, 220 or 221, 222 or 223,
 249
 Philosophy 202, 212, 222, 302
 Russian 200
 Spanish 240 or 260, 290

*English 202 and 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.

The following courses, available through the School of Fine Arts, are acceptable for credit in the Faculty of Arts and Science as electives under Group A. For descriptions, see pages 185 to 196.

Art 120

Music 100, 110

Theatre 170

Art 320

Music 200

Theatre 270

GROUP B

Section I

Anthropology 100
 Economics 100
 Geography 101
 Linguistics 100
 Psychology 100
 Sociology 100

Section II

Anthropology 200 or 201
 *Commerce 151
 **Economics 200, 340
 Geography 201, 204
 Linguistics 210, 250
 ***Political Science 200
 Psychology 200, 220
 Sociology 200 or 201

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

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

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

- (e) 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 120, 121, 124, 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, Linguistics, 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 62 to 149. 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 53.

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 page 53. Twelve additional units are required of which six units must be selected outside the said fields (although they may, when desirable, include corequisites 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 following tabulation shows the requirements for the B.Sc. degree:

FIRST AND SECOND YEARS	THIRD AND FOURTH YEARS													
	HONOURS			MAJOR			GENERAL							
	English	Mathematics	Science	Non-Science Electives or Specified Courses	Honours	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		

*Students electing Chemistry 121 and 120 or 124 will take 16 units in Science.

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, Biochemistry, 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 must be taken in the First Year, and Mathematics 130 must normally be taken in the first year. However, in certain cases Mathematics 130 may be delayed to the second year.
- (c) **Five of the following courses must be taken in the combined First and Second years.** Except where advanced placement in a subject has been granted or departmental permission has been obtained to take a course from Section II, all courses for First Year credit must be chosen from Section I. Courses for Second Year credit may be chosen from Section I or Section II.

Section I

Astronomy 120
 Bacteriology 200
 Biology 150
 *Chemistry 120 or 124
 Geography 101
 Physics 101 or 103
 **Psychology 100

Section II

Botany 205
 Chemistry 224, 230 or 233
 Geography 203
 Geology 200
 Mathematics 220 or 221, 222 or 223, 249
 Physics 211, 212
 Psychology 200
 Zoology 202

*Chemistry 121 must be taken in addition.

**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). Except where advanced placement in a subject has been granted or departmental permission has been obtained to take a course from Section II, all courses for First Year credit must be chosen from Section I. Courses for Second Year credit may be chosen from Section I or Section II.

Section I

Anthropology 100
 Economics 100
 French 140 or 180
 *Geography 101
 German 100 or 140
 Greek 100
 History 101, 102, 200,
 201, 204, 212
 Italian 100
 Latin 100, 140, 240
 Linguistics 100
 Philosophy 100
 ***Psychology 100
 Russian 100
 Sociology 100
 Spanish 100 or 140

Section II

Anthropology 200 or 201
 Classical Studies 200
 Economics 200
 English 200, 201, 203
 French 240 or 280, 290
 Geography 201, 204
 German 240 or 260, 290
 Greek 200
 Italian 200
 Linguistics 210, 250
 Philosophy 202, 212, 222, 302
 **Political Science 200
 Psychology 220
 Russian 200
 Sociology 200 or 201
 Spanish 240 or 260, 290

*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).

The following courses, available through the School of Fine Arts, are acceptable for credit in the Faculty of Arts and Science as electives. For descriptions, see pages 185 to 196.

Art 120

Art 320

Music 100, 110

Music 200

Theatre 170

Theatre 270

- (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, Biochemistry, 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, 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 57, 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 corequisite 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 only. (1-2; 0-0)
- 1 lecture and 2 hours laboratory per week, second term only. (0-0; 1-2)
- 2 lectures, 3 hours laboratory and 2 hours tutorial or discussion per week, either terms. (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.

David C. Pitt, B.A. (*N.Z.*), B.Litt., D.Phil. (*Oxon.*), Assistant Professor.

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

T. Rennie Warburton, B.A. (*Leeds*), Ph.D. (*London*), Assistant Professor.

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

Derek G. Smith, B.A. (*Brit. Col.*), A.M. (*Harvard*), Instructor.

Donald W. Ball, M.A. (*Calif.*), M.S. (*Oregon*), 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: students will offer at least 33 units of which 21 must be in Anthropology and include Anthropology 300, 340, 499, 6 units in Ethnology, and 6 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.

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: students will offer at least 33 units of which 21 must be in Sociology and include Sociology 400, 430, and 499. Honours students will be expected to achieve satisfactory standing in statistics courses to be chosen in consultation with the Department.

COURSES OFFERED

ANTHROPOLOGY

NOTE: Either Anthropology 100 or 200 is recommended for the general student as well as for those intending to major in Anthropology. Anthropology 100 is open only to First Year students; students in other years should choose Anthropology 200. Introductory Anthropology 100, 200 or 201 is prerequisite for all courses numbered 300 or above. However, Anthropology 200 or 201 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. Open to First Year students only.

(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. Not open to First Year students except by permission of the Department.

(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.

(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)

320. (3) **Ethnology of a Selected Area**

Students should consult the Department.

(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)

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

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

(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)

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

Minority and ethnic groups within complex societies with special reference to Canada.

(3-0; 3-0)

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. Open only to students registered in the Fourth Year. (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 population 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)

414. (1 ½) **Cultural and Personality**

An examination of the types and range of relationships between culturally patterned behaviour and personal character. Consideration of national character, modal personality, the socialization process, and idio-syncratic behaviour. (3-0; 0-0)

418. (1 ½) **Social Change**

General theory of cultural evolution and social change. The impact of complex cultures upon the native peoples of Africa, Asia, the Pacific and the Americas. (3-0; 0-0)

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

The cultures of Arctic and sub-Arctic Eurasia and North America. (3-0; 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)

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

This course may be substituted for an elective course in Anthropology in the Fourth Year of the Honours Programme with the permission of the Department.

499. (3) **Honours Seminar and Graduating Essay**

SOCIOLOGY

NOTE: Either Sociology 100 or 200 is recommended for the general student as well as for those intending to major in Sociology. Sociology 100 is open only to First Year students; other students must register in Sociology 200. Introductory Sociology 100, 200 or 201 is prerequisite for all courses numbered 300 or above. However, Sociology 200 may be taken concurrently with advanced courses.

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. Open to First Year students only. (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. Not open to First Year students except by permission. (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. (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)

305. (3) **The Family and Socialization**

The family as process and structure; the transmission and learning of norms, values, and social roles; family functions in social order and continuity. (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)

340. (3) **Demography and Human Ecology**

Study of the growth, distribution, and movement of human populations with special emphasis on the social causes and consequences and including the form and development of human communities, as adaptations to continuously changing conditions of life. (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. Open only to students registered in the Fourth Year.

(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.

Prerequisite: Fourth Year standing or permission of the Department. (3-0; 3-0)

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

This course may be substituted for an elective course in Sociology in the Fourth Year of the Honours Programme with the permission of the Department.

499. (3) **Honours Seminar and Graduating Essay**

DEPARTMENT OF ASTRONOMY

Colin D. Scarfe, M.Sc. (*Brit. Col.*), Ph.D. (*Cantab.*), Assistant Professor.
Judith E. Robinson, B.A. (*Vassar*), M.Sc. (*Michigan*), Instructor.
J. L. Climenhaga, M.A. (*Sask.*), Ph.D. (*Michigan*), Honorary Professor.
K. O. Wright, M.A. (*Tor.*), 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 130, 230, 232; Chemistry 102 and 121 or Chemistry 124 and 121.

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 12; 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 (may 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.

T. D. D. Groves, M.S.A. (*Brit. Col.*), Ph.D. (*Purdue*), Part-time Lecturer.

Mrs. Anne Johnston, M.Sc. (*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, or 121 and 120 or 124, Mathematics 120, 121, or 130, which may be taken concurrently. This course is prerequisite to all other courses in Bacteriology.

Text: Stanier et al, *The Microbial World*.

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

Dr. Wood.

(2-3; 2-3)

BIOCHEMISTRY

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

T. D. D. Groves, M.S.A. (*Brit. Col.*), Ph.D. (*Purdue*), Assistant Professor.

HONOURS PROGRAMME

Year 1	Year 2	Year 3	Year 4
Eng. 100	Eng. 200, 201 203		
Math. 130	*Lang. 100 Math. 220 or 221	Lang. 100 or 200 Math. 330 or 331	
Phys. 101		Phys. 212	
Chemistry 120 or 124 and 121	Chem. 224 Chem. 233	Chem. 334 Chem. 344	†Chem. 435 or 445 Biochem. 400
Bact. 200	Bot. 205 or Zoo. 202	Bot. 331 or Zoo. 305	Biochem. 480 Biochem. 499 Bio. 300 and 301 Biol. Elective chosen from: Bot. 342 or Zoo. 302 Bot. 415 Bot. 411 Bot. 404 or Zoo. 301 Sci. Elective chosen from: Chemistry Physics Mathematics

† Chemistry 435/445 may be offered without a laboratory for Biochemistry Honours.

* 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 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 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: Chemistry 233, 344.

Text: Harrow and Mazur, 9th Ed., *Textbook of Biochemistry*; Lab. Manual: Clark, *Experimental Biochemistry*. (2-3; 2-3)

470. (1-3) **Directed studies in Biochemistry**

480. (1) **Seminar**

Credit to be given in the fourth year. Attendance and participation is, however, desirable for all students in all years of the Biochemistry Honours and Graduate Programmes.

499. (2) **Undergraduate Thesis**

Research under the direction of staff members. For Biochemistry Honours students only.

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.

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. Bell, B.S.F. (*Brit. Col.*), M.F. (*Yale*), Ph.D. (*Brit. Col.*), Assistant Professor.

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

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

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

John W. Paden, B.S. (*Calif.*), M.S. (*Idaho*), Instructor.

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.

Alice Louise Baartz (Mrs. A. P.), B.S., M.A. (*Oregon*), Laboratory Instructor.

Iain Y. A. Barr, B.Sc. (*U.N.B.*), M.F. (*Brit. Col.*), Laboratory Instructor

David Winston Clark, B.A., B.Ed. (*Dalhousie*), Laboratory Instructor.

Michael R. Corry, B.A. (*U. of Vic.*), Laboratory Instructor.

Mary M. Dennis (Mrs. D. D.), M.S.A. (*Brit. Col.*), Laboratory Instructor.

Ruby W. Littlepage (Mrs. J. L.), M.A. (*Stanford*), Laboratory Instructor.

Elinor McMullan (Mrs. D. E.), B.Sc. (*Brit. Col.*), Laboratory Instructor.

Barbara G. Paget (Mrs. J. D.), B.Sc. (*Brit. Col.*), Laboratory Instructor.

James E. Simpson, B.Sc.F. (*Tor.*), Laboratory Instructor.

R. Ann M. Thompson, B.Sc. (*U. of Vic.*), Laboratory Instructor.

GENERAL, MAJOR AND HONOURS PROGRAMMES

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 functional and evolutionary morphology, one course in physiology and a one-term course (1½ units) in each of genetics and ecology. To the *Basic Programme*, other courses are added as required. The *Basic Programme* is made up of the following:

Biology Core:

1. Biology 150 (Principles of Modern Biology) or equivalent.
2. Botany 205 (Plant Morphology)
3. One of Zoology 202 (Vertebrate Zoology) or Zoology 301 (Invertebrate Zoology).
4. Biology 300 (Genetics — 1½ units) and Biology 301 (Ecology — 1½ units).

Pre-professional students, or those not honouring, majoring or concentrating in the Department may elect Biology 436 (Human and Population Genetics — 1½ units) in place of Biology 301 (Ecology).

5. One of Botany 331 (Plant Physiology), Zoology 303 (Vertebrate Physiology), or Zoology 305 (General and Cellular Physiology).

Departmental Prerequisites or Corequisites:

6. Physics 101 or 103
7. Chemistry 100 or 102, or Chemistry 121 and any of Chemistry 120, 124, or 324.
8. Chemistry 230 or 233.

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, Botany 342 or Zoology 301 should be taken in the second year and one additional 300 or 400 level course in the fourth year. Physics 11 and 12 will be accepted as fulfilling the Physics requirement, although students planning graduate work in Biology should take at least one university level course in this subject. Students planning to take their second area of concentration in Chemistry must select Chemistry 124 and 121 rather than Chemistry 120 or 324.

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

Core courses numbered 200 should normally be taken prior to 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.

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.

Biochemistry 400 is recommended for Major and Honours programmes and may be counted as a Biology, Botany or Zoology course in any Departmental programme.

Students planning to become professional biologists should be prepared to continue their studies into graduate school and, in preparation for this, are advised to take either an Honours or a Major B.Sc. in either Botany or Zoology, the Honours Programme being preferable. 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 an area of concentration. Those selecting Biology courses for the B.Ed. (Secondary) degree should consult the Calendar regulations of the Faculty of Education.

In all cases, students planning a programme in Biology, Botany or Zoology should consult with members of the Department.

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, Russian or others on departmental recommendation. Such students are further advised of the usefulness of Mathematics in biological work, and should take Mathematics courses to the 200 level and a course in Computers (Mathematics 206 or 249) where possible.

BIOLOGY

B.Sc. General, with single concentration in Biology: the Basic Programme and one Biology, Botany or Zoology elective.

B.A. General, with single concentration in Biology: As for the B.Sc. General except that Physics 101 or 103 and Chemistry 230 or 233 are not required.

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. Botany 205 and Zoology 202 must be completed by the end of the Second Year.

Honours — the Basic Programme, Botany 342 (Plant Anatomy); Botany 499 (Thesis or Tutorial), and course work to bring the total to at least 60 units, as determined by the Department, and including Mathematics 220 or 230 (Calculus) and/or Biology 304 (Biometrics). Written application for entry into Honours should be made to the Department not later than March 1 of the Third Year. The applicant must have and must maintain a B+ average in all departmental courses.

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 Language 100 1 in second area (Arts) 1 in Arts or Social Science	English 100 Biology 150 Mathematics 120, 121, or 130 Chemistry 124 & 121 or equivalent 1 in second area (Science)	English 100 Biology 150 Mathematics 120, 121, or 130 Chemistry 124 & 121 or equivalent 1 in Arts or Social Science	English 100 Biology 150 Mathematics 120, 121, or 130 Chemistry 124 & 121, or equivalent 1 in Arts or Social Science
II	English 200, 201, or 203 Botany 205 or Zoology 202 1 in second area (Arts) Chemistry 120 & 121, or equivalent Language 200	Botany 205 or Zoology 202 Physics 101 or 103 1 in second area (Science) Chemistry 230 1 in Arts or Social Science	Botany 205 Zoology 202 Physics 101 or 103 Chemistry 230 1 in Arts or Social Science	Botany 205 Zoology 202 Physics 101 or 103 Chemistry 230 Elective or corequisite
III	Botany 205 or Zoology 202 or 301 1 in second area (Arts) Biology 300 and 301 2 Electives	Botany 205 or Zoology 202 or 301 1 in second area (Science) Biology 300 and 301 Zoology 305, 303 or Botany 331 1 in Arts or Social Science	Botany 342 or Zoology 301 Zoology 305, 303 or Botany 331 Biology 300 and 301 Biology, Botany or Zoology elective Elective or corequisite	Botany 342 or Zoology 301 Zoology 305, 303 or Botany 331 Biology 300 and 301 Biology 304 or Mathematics 220, 221, 230 or 231 Biology, Botany or Zoology Elective
IV	Biology, Botany or Zoology elective Zoology 305, 303 or Botany 331 2 in second area (Arts) Elective	Biology, Botany or Zoology elective 2 in second area (Science) 1 in Arts or Social Science Elective	2 Botany or Zoology electives 2 electives or corequisites 1 in Arts or Social Science	4 as specified by the Department Thesis or Tutorial

*These are typical examples only: students are advised to consult the Department for suitable selection of programme and course.

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 completed by the end of the Second Year.

Honours — the Basic Programme, Zoology 301 (Invertebrate Zoology); Zoology 499 (Thesis or Tutorial), and course work to bring the total to at least 60 units as determined by the Department, and including Mathematics 220 or 230 (Calculus) and/or Biology 304 (Biometrics). Zoology 202 and Botany 205 must be taken in the Second Year. Written application for entry into Honours should be made to the Department not later than March 1 of the Third Year. The applicant must have and must maintain a B+ average in all departmental courses.

COURSES OFFERED

BIOLOGY

150. (3) **Principle 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 surveys of plant and animal groups.

Text: To be announced.

Staff.

(3-3; 3-3)

300. (1 ½) **Genetics**

An introduction to the principles, methods and applications of Genetics. Should be taken in conjunction with Biology 301.

Text: To be announced.

Dr. Styles.

(3-0; 0-0)

301. (1 ½) **Ecology**

A survey of populations, communities and ecosystems. Should be taken in conjunction with Biology 300.

Text: To be announced.

Dr. Hagmeier.

(0-0; 3-0)

304. (3) **Biometrics**

Introduction to statistical analysis and design of biological experiments. Tests of significance, regression, and curve fitting, analysis of variance, experimental design. Prerequisite: Mathematics 120, 121 or 130.

Text: Li, *Statistical Inference, I*.

Dr. Ballantyne.

(2-2; 2-2)

400. (1 ½) **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.

Dr. Hagmeier.

(3-0; 0-0)

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.

Texts: To be announced.

Dr. Fontaine.

(2-4; 2-4)

406. (3) **Marine Ecology**

A study of biotic associations in the marine environment and the causative mechanisms for association. Prerequisite: Biology 301 and Zoology 301.

Texts: Relevant scientific literature.

Dr. Ellis.

(1-5; 1-5)

407. (3) **Oceanography**

An introduction to some aspects of the biological implications of pollution. Emphasis Productivity, physiology, ecology and distribution of planktonic organisms are emphasized. Students must be able to make periodic all-day (and occasional weekend) oceanographic cruises. Prerequisite: Chemistry 100 or 102, or Chemistry 121 and any of Chemistry 120, 124, or 324, Zoology 301; recommended: Mathematics 120, 121 or 130, Physics 101 or 103.

Texts: To be announced.

Dr. Littlepage.

(2-4; 2-4)

408. (1 1/2) **Pollution Biology**

An introduction to some aspects of the biological implications of pollution. Emphasis will be on the biology of polluted waters, but aspects of air and terrestrial pollution will also be treated. Prerequisite: Botany 205, Zoology 301, or permission of instructor; recommended: Bacteriology 200.

Texts: To be announced.

Dr. Austin.

(2-3; 0-0)

409. (3) **Physiological Mycology**

Morphology, general physiology, biochemical properties and culture methods of fungi, protozoa and other micro-organisms. Prerequisite: Chemistry 230, Botany 331 or Zoology 305.

Text: To be announced.

(2-3; 2-3)

410. (1 1/2) **Evolution of Biological Systems**

A course primarily concerned with the origin and development of biological systems with special consideration given to the origin of life, the evolution of genetic systems, and present evolutionary trends.

Text: Assigned readings.

Dr. Styles.

(0-0; 3-0)

411. (1 1/2) **Natural Resource Management**

A seminar course considering the manner in which ecological systems interact with social systems in Natural Resource Management. Each year different topics will be considered from a variety of viewpoints. Senior students from any department are eligible, on permission of the instructor.

Text: Assigned readings.

Dr. Bell and Staff.

(0-0; 3-0)

420. (3) **Advanced Ecology**

A study of the literature, selected problems, and methods in terrestrial and fresh water ecology. Prerequisite: Permission of instructor.

Text: Assigned readings.

Dr. Hagmeier.

(2-3; 2-3)

435. (1 1/2) **Molecular Genetics**

The physical and chemical nature of the gene; the role of the gene in the control of biochemical and developmental processes. Prerequisites: Chemistry 230 or 233; Biology 300 or 332, or permission of instructor.

Text: Watson, *Molecular Biology of the Gene*.

Dr. Styles.

(2-3; 0-0)

436. (1 1/2) **Human and Population Genetics**

Heredity and gene expression in man; the application of population studies to the genetics of man. Prerequisites: Biology 300 or 332 or permission of instructor.

Text: To be announced.

Dr. Styles.

(0-0; 2-3)

BOTANY

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

A comprehensive survey of plant groups based largely upon morphology and phylogeny but incorporating basic principles, thereby forming the foundation for further courses in Botany.

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

Dr. Austin and Dr. Owens.

(3-3; 3-3)

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: Chemistry 100 or 102, or Chemistry 121 and any of Chemistry 120, 124, or 324, and Botany 205, or permission of instructor.

Text: Devlin, *Plant Physiology*.

Dr. Ballantyne.

(2-3; 2-3)

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

Study of the development and organization of plant tissues and organs. Techniques in the preparation of slides for anatomical study: photomicrography. Prerequisite: Botany 205.

Text: Esau, *Anatomy of Seed Plants*.

Dr. Owens.

(2-3; 2-3)

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

Principles of taxonomy, biosystematics, systematic relationships of the vascular flora of 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.

Texts: Porter, *Taxonomy of Flowering Plants*, Heslop-Harrison, *New concepts in flowering plant taxonomy*.

Dr. 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*.

Dr. Austin.

(1-4; 1-4)

415. (3) **Introductory Mycology**

Morphology and taxonomy of fungi. A study of all groups of fungi including techniques for isolation, culture and identification. Prerequisite: Botany 205.

Text: To be announced.

Mr. Paden.

(1-4; 1-4)

418. (3) **Plant Ecology**

A study of vegetation in the context of the ecosystem; interrelationships of plants and environment; techniques of vegetation and environment sampling and analysis. Students are advised to take Botany 404 before or concurrent with the course.

Text: To be announced.

Dr. Bell.

(2-4; 2-4)

420. (3) **Plant Growth and Development**

A study of the morphological and physiological aspects of plant growth, differentiation, flowering and senescence. Prerequisites: Botany 331 or Zoology 305; Botany 342, or permission of instructors.

Text: Leopold, *Plant Growth and Development*.

Dr. Ballantyne and Dr. Owens.

(2-3; 2-3)

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

499. (3) **Thesis or Tutorial**

ZOOLOGY

202. (3) **Vertebrate 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.

Dr. McInerney.

(2-3; 2-3)

301. (3) **Invertebrate Zoology**

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

Texts: Relevant scientific literature.

Dr. Fontaine.

(2-3; 2-3)

302. (3) **Microanatomy**

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

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

Dr. Algard.

(2-3; 2-3)

303. (3) **Vertebrate Physiology**

Tissue and organ physiology of mammals, and experimental work on small and large vertebrates, including the students themselves. Weekly laboratory reports required. Prerequisite or corequisite: Chemistry 230 or 233; recommended: Physics 101 or 103 and Zoology 202.

Dr. Vaughan.

(2-3; 2-3)

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

The first part of the course is a comparative treatment of aspects of physiology peculiar to animals. The second part deals with fundamental aspects of physiology: function of cell structures, energy exchange, biosynthesis and enzymology. Lectures and laboratories are supplemented by group discussions and tutorials. Corequisite: Chemistry 230.

Texts: Florey, *An Introduction to General and Comparative Physiology*; Giese, *Cell Physiology*. Recommended: White, *Chemical Background to the Biological Sciences*; Baldwin, *Comparative Biochemistry*.

Dr. Reid.

(2-4; 2-4)

403. (3) **Comparative and Experimental Embryology of Marine Organisms**

A study of the embryonic development of representative marine organisms with experimental analysis of certain developmental phenomena.

Text: To be announced.

Dr. Fields.

(2-3; 2-3)

404. (3) **Advanced Physiology**

Special topics in the field of physiology. Prerequisites: Chemistry 230 and Zoology 303 or 305.

Texts: To be announced.

(2-3; 2-3)

405. (3) **Cellular Physiology**

Structure and function of cells of micro-organisms, plant and animals, with particular emphasis on the synthesis, functions, and interactions of their various molecular components. Prerequisites: Botany 331 or Zoology 305, Chemistry 230; Corequisite: Biochemistry 400.

Texts: To be announced.

(2-3; 2-3)

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.

Dr. Fields.

(2-3; 2-3)

(Not offered 1967-68).

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 consists of classification and identification.

Texts: To be announced.

Dr. 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.

Dr. Reid.

(2-3; 2-3)

431. (3) **Ichthyology**

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

Text: Marshall, *The Life of Fishes*.

Dr. McInerney.

(2-3; 2-3)

432. (3) **Parasitology**

Study of the biology and taxonomy of parasitic organisms. Prerequisite: Zoology 301.

(Not offered 1967-68).

(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.

Dr. 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.

Dr. 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.

Dr. Ring.

(2-3; 2-3)

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

499. (3) **Thesis or Tutorial**

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.
Alexander D. Kirk, M.Sc., Ph.D. (*Edinburgh*), Associate Professor.
D. J. MacLaurin, B.A.Sc. (*Brit. Col.*), M.S. (*Lawrence*), P. Eng., Associate Professor. (Leave of absence 1967-68).
Robert N. O'Brien, M.A.Sc. (*Brit. Col.*), Ph.D. (*Manchester*), Associate Professor.
Stephen A. Ryce, B.A., Ph.D. (*Brit. Col.*), Associate Professor.
Wilma E. Elias, M.A. (*Sask.*), Ph.D. (*Brit. Col.*), Assistant Professor.
Sidney G. Gibbins, B.S. (*Cal. Inst. Tech.*), Ph.D. (*Wash.*), Assistant Professor.
Tikam C. Jain, M.Sc., Ph.D. (*Agra*), 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.
Ian S. Walker, B.Sc., Ph.D. (*Adelaide*), Dip. Ed. (*Melbourne*), Assistant Professor.

GRADUATE PROGRAMMES

The Department offers opportunities for study leading to the M.Sc. and Ph.D. degrees. For information on the requirements for these, see the section in this Calendar on the School of Graduate Studies.

UNDERGRADUATE PROGRAMMES

The Chemistry Department offers an Honours and a Major programme leading to the B.Sc. degree, and a concentration in Chemistry in the General programme of either the B.Sc. or B.A. degrees. Students are invited and advised to consult with the Department when considering any courses or programmes in Chemistry.

Those considering graduate work in Chemistry are advised to acquire a reading knowledge of German, Russian, French, or other appropriate language as a part of their undergraduate programme.

All students registering for any chemistry course(s) that include laboratory work are required to purchase a Chemistry Laboratory Credit Card (\$3.00) at registration. Any unused portion of this credit is refundable.

Courses required by the Chemistry Department for a concentration in Chemistry under the General Programme:

Chemistry 121, 124, 224, and 233, Physics 101 and 212, Mathematics 130, and 220 or 221, in their necessary sequence, together with nine units of Chemistry courses numbered 300 or above for which the required prerequisites have been taken.

Courses required by the Chemistry Department for the Major Programme:

First Year: Chemistry 121, 124, Physics 101, Mathematics 130.

Second Year: Chemistry 224, 233, Physics 212, Mathematics 220 or 221.

Third Year: Chemistry 314, 326, 331, 334, 344
and one of Mathematics 222, 223, 330 or 331.

Fourth Year: At least one of Chemistry 424, 435 or 445.

Courses required by the Chemistry Department for the Honours Programme:

First Year: Chemistry 121, 124, Physics 101, Mathematics 130.

Second Year: Chemistry 224, 233, Physics 212, Mathematics 220 or 221.

Third Year: Chemistry 314, 326, 331, 334, 344, 399
and one of Mathematics 222, 223, 330 or 331.

Fourth Year: Chemistry 424, 435, 445, 499.

Permission of the Department is required for admission into each of the Third and Fourth Years of the Honours programme. For this, the Department is to be consulted

each year, by interview or by letter no later than one month before the last day for submission of applications for admission or re-admission to the University.

Students who have fulfilled the requirements given in this Calendar for admission to a B.Sc. Honours programme will be admitted to the Third Year of the Chemistry Honours programme. With almost no exception, the minimum requirement for admission to the Fourth Year is a second class average in all the work of the Third Year and also in the required courses of the Third Year Chemistry Honours programme.

COURSES OFFERED

FIRST YEAR CHEMISTRY

The first year chemistry courses (Chemistry 120, 121 and 124) are designed and arranged to provide maximum flexibility in accommodating the differing backgrounds and needs of students. While the specific details of each course as given below should be carefully studied, the following general notes may be helpful.

Two lecture courses (no laboratory), Chemistry 120 and Chemistry 124, are offered. A laboratory course, Chemistry 121, is also offered. Any student planning any further chemistry course(s) either at this University or elsewhere, and students planning to enter certain professional schools, should take the laboratory course as well as a lecture course. In certain cases though, a lecture course only may be completely suitable to the student's academic plans. Chemistry 120 is a suitable lecture course for all students except those planning to take Chemistry 224 or 233 at this University.

120. (3) **General Chemistry**

Introduction to the modern theory of atomic structure and its relation to chemical bonding, molecules and states of matter. Stoichiometry. Equilibrium in chemical systems, acid base theory, redox, periodic chemistry, organic, surface and nuclear chemistry.

Credit will not be given for both Chemistry 120 and 124.

Prerequisites: Mathematics 12, Chemistry 11 or 12 or their equivalents. Students desiring to register in Chemistry 120, but who do not have these prerequisites, should consult the Department for permission to register well prior to registration. If permission to enter Chemistry 120 is granted, then registration must be in Lecture Section number 7 which has five lectures per week.

Text: To be announced.

(3-0; 3-0)

- NOTES: 1. Chemistry 120 provides a comprehensive lecture course in General Chemistry at the First Year University level, and is suitable for all fields and programmes except those which include either Chemistry 224 or 223.
2. Chemistry 121 may be a necessary course to accompany Chemistry 120, depending upon a student's interests and academic plans. It will be noted that Chemistry 121 is prerequisite to each of Chemistry 224, 230 and 233. The student should review his need for Chemistry 121 in terms of his probable academic programme.
3. During the first term only, the Department will counsel concerning, and consider applications for, transfer from Chemistry 120 to Chemistry 124, with the purpose of assisting students to re-assess their selection of the First Year chemistry course best suited to their academic needs.

121. (1) **Introductory Analytical Laboratory**

A one-term intensive laboratory course in the basic operations and calculations used in quantitative chemical analysis with emphasis on technique, precision and accuracy.

Pre- or corequisite: Chemistry 120 or 124.

Text: To be announced.

(0-4; 0-0) or (0-0; 0-4)

- NOTES: 1. Registration and fitting into individual timetables for this course must take place in September. The Department will then divide each section into sub-sections by terms.
2. Chemistry 121 is a prerequisite for each of Chemistry 224, 230 and 233.

124. (3) **Introductory Physical and Inorganic Chemistry — Part I**

Introduction to the modern theory of atomic structure and its relation to chemical bonding, molecules and states of matter. Stoichiometry. Equilibrium in chemical systems with detailed consideration of the quantitative aspects of solution equilibria.

Prerequisites: Mathematics 12 and Chemistry 12 or their equivalents (Chemistry 11 with permission of the Department).

Pre- or corequisite: Chemistry 121.

Text: To be announced.

(3-0; 3-0)

- NOTES: 1. Chemistry 124 is the first part of a Chemistry 124-224 sequence and is thus an essential first course in chemistry for students planning a further programme in chemistry in this Department which includes either Chemistry 224 or 233.
2. During the first term only, the Department will counsel concerning, and consider applications for, transfer from Chemistry 124 to Chemistry 120 with the purpose of assisting students to re-assess their selection of the First Year chemistry course best suited to their academic needs.

Students with a D grade in any course in chemistry are advised not to register for a following course in chemistry and may not do so without permission of the Department. It should be noted that in the section of this calendar on supplemental examinations, provision exists for writing a supplemental examination to improve a course grade.

224. (3) **Introductory Physical and Inorganic Chemistry — Part II**

Application of solution equilibria, acid base theory and redox systems to chemical analysis. Introduction to thermodynamics and reaction kinetics. Chemical bonding and periodic chemistry.

Prerequisites: Chemistry 102, or 121 and 124, Mathematics 120, 121 or 130, Physics 101.

Texts: Skoog and West, *Fundamentals of Analytical Chemistry*; Cotton and Wilkinson, *Advanced Inorganic Chemistry*.

(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.

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) **Introductory 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, or 121 and 124.

Text: To be announced.

Laboratory Manual: To be announced.

(3-3; 3-3)

314. (3) **Instrumental Analysis and Molecular Structure Determination**

Modern techniques of chemical analysis and molecular structure determination including chromatography, spectroscopy, mass spectrometry, radiochemical-, electrochemical- and diffraction methods.

Prerequisite: Chemistry 224.

(2-4; 2-4)

324. (3) **Modern General Chemistry**

The modern theory of atomic structure and its relation to chemical bonding, molecules and states of matter. Stoichiometry. Equilibrium in chemical systems with detailed consideration of the quantitative aspects of solution equilibria. Other selected topics.

Prerequisite: At least one course in Chemistry at the University level or permission of the Department. Credit will not be given for both Chemistry 124 and Chemistry 324.

Text: To be announced. (3-0-2; 3-0-2)
(Not offered 1967-68).

(Offered in Summer Session 1967 — 10 hours lecture and 4 hours seminar per week).

NOTE: Chemistry 324 is designed as a rigorous refresher course based on lectures and seminars, but no laboratory. The Seminars will involve several Faculty members of the Chemistry Department. This course should be of interest to some graduate degree programmes in the Faculty of Education.

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.

Texts: Cotton and Wilkinson, *Advanced Inorganic Chemistry*, and as to be announced. (3-4; 3-4)

331. (1) Organic Qualitative Analysis

The principles and practice of the qualitative analysis of organic compounds.

Prerequisite: Chemistry 233 (Chemistry 230 with permission of the Department).

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*, Second Edition. (2-0; 3-0)

344. (3) Physical Chemistry

Kinetic theory of gases, thermodynamics, thermochemistry, chemical kinetics, solutions, phase equilibria, electro-chemistry. Prerequisites: Chemistry 224, Physics 212, Mathematics 220 or 221.

Text: To be announced.

Laboratory Manual: Crockford and Nowell, *Laboratory Manual of Physical Chemistry*. (3-3; 3-3)

399. (1) Research Participation and Seminar

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

424. (3) Advanced Inorganic Chemistry

Selected topics in modern inorganic chemistry including the chemistry of the representative elements, co-ordination compounds, organometallic chemistry and current theories of bonding and molecular structure.

Prerequisites: Chemistry 326 and 344.

Texts: Cotton and Wilkinson, *Advanced Inorganic Chemistry*, and as to be announced. (3-4; 3-4)*

435. (3) Advanced Organic Chemistry

Current topics in organic chemistry including natural products, cyclic systems, molecular rearrangements and photochemistry. In addition, general methods for the syntheses of organic compounds and applications of spectroscopy in structural and synthetic chemistry will be treated.

Prerequisite: Chemistry 334.

(3-4; 3-4)*

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

Quantum mechanics, atomic and molecular spectroscopy, thermodynamics, statistical mechanics, chemical kinetics, electrochemistry and surface chemistry. Prerequisites: Chemistry 344, Mathematics 222 or 223 or 330 or 331. (3-4; 3-4)*

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

499. (3) **Thesis**

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

* 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.

GRADUATE COURSES

Students should consult the Department to determine the graduate courses offered in any particular year.

500. (1-2) **Research Methods and Techniques**

504. (2) **Surface and Colloid Chemistry**

509. (1) **Seminar**

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

524. (2) **Theoretical Inorganic Chemistry**

526. (2) **Topics in Advanced Inorganic Chemistry**

530. (1) **Wood Chemistry**

536. (2) **Organometallic Chemistry**

538. (1) **Biogenesis of Natural Products**

539. (2) **Carbohydrate Chemistry**

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

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

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

554. (2) **Quantum Mechanics**

555. (2) **Statistical Mechanics**

556. (2) **Advanced Physical-Inorganic Chemistry**

565. (2) **Theories and Applications of Nuclear Magnetic Resonances in Spectroscopy**

577. (2) **Nuclear and Radio Chemistry**

583. (2) **Organic Syntheses**

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

599. **M.Sc. Thesis (Credit to be determined but normally 6 units in this Department.)**

630. (1) **Aromatic Compounds**

633. (2) **Chemistry of Natural Products**

634. (2) **Enzyme and Protein Chemistry**

636. (2) **Chemistry of Heterocyclic Compounds**

645. (1) **Advanced Electrochemistry**

663. (2) **Advanced Physical Organic Chemistry**

699. **Ph.D. Thesis (Credit to be determined)**

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.

Gordon S. Shrimpton, M.A. (*Brit. Col.*), Instructor.

Derek A. Tumber, B.A. (*Liverpool*), M.A. (*Alta.*), Instructor.

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 310, 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.

Members of the Department.

(3-0; 3-0)

310. (3) **Classical Epic and Lyric Poetry**

A study of the Greco-Roman poetic tradition, with an emphasis on the non-dramatic genres of epic and lyric. Poets studied in translation will include Homer, Hesiod, Pindar, Catullus, Horace, and Vergil.

(Not offered 1967-68).

(2-0; 2-0)

315. (3) **Greek and Roman Drama**

The origins and development of drama in ancient Greece and Rome. The study, in English translation, of representative plays of Aeschylus, Sophocles, Euripides, Aristophanes, Menander, Plautus, Terence, and Seneca. Problems of ancient theatre production will receive consideration.

Dr. Smith.

(2-0; 2-0)

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.

Mr. Archbold.

(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.

(Not offered 1967-68).

(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*. Joint seminars will be held with Latin 370 (Roman satire) for the discussion of common critical problems; but students in Classical Studies 370 are not expected to have a knowledge of Latin, and will be assigned readings in English translation.

Dr. Smith.

(2-0; 2-0)

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

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

(Not offered 1967-68).

(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) **Grduoting Essoy**

(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. Shrimpton. (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*.

(Not offered 1967-68). (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.

(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 1967-68). (3-0; 3-0)

350. (3) **Greek Historians**

The development of Greek historical enquiry, with emphasis on Herodotus and Thucydides.

(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. Second Year students who have already completed Latin 240 or its equivalent should register for *one* of Latin 320, 330, 340, 350, 360 or 370.

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.

Members of the Department. (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.

Mr. Carson. (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.

Mr. Tumber. (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.

(Not offered 1967-68).

(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.

(Not offered 1967-68).

(3-0; 3-0)

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

A critical reading of the major Latin lyric and elegiac poets, including Catullus, Horace, Tibullus, Propertius, and Ovid.

Mr. Tumber.

(3-0; 3-0)

350. (3) **Roman Historians**

A study of Latin historiography; readings from Cicero, Sallust, Livy, and Tacitus.

Mr. Archbold.

(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 1967-68).

(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*.

Dr. Smith.

(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.

(Not offered 1967-68).

(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.
- Leo I. Bakony, B.A. (*Brit. Col.*), Ph.D. (*Wash.*), Professor of Economics.
- Malcolm G. Taylor, M.A., Ph.D. (*Calif.*), LL.D. (*Alta.*), Professor of Political Science.
- Ronald I. Cheffins, B.A., LL.C. (*Brit. Col.*), LL.M. (*Yale*), Associate Professor of Political Science and Public Law.
- Leonard Laudadio, B.A. (*Puget Sound*), M.A., Ph.D. (*Wash.*), Associate Professor of Economics.
- 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.
- Neily 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.
- K. Arnold Frenzel, B.A. (*Pacific Lutheran*), M.A. (*Wash.*), Assistant Professor of Economics.
- J. Colin H. Jones, B.A. (*Univ. Coll. of Wales*), M.A. (*Montana State*), Ph.D. (*Queen's*), Assistant Professor of Economics.
- Richard J. Powers, B.A. (*New Mexico*), M.A., Ph.D. (*Claremont*), Assistant Professor of Political Science.
- R. A. L. Carter, B.A. (*R.M.C.*), M.A. (*Queen's*), Instructor in Economics.
- Robert W. McQueen, B.Com. (*Brit. Col.*), C.A., Part-time Lecturer in Commerce.
- J. Trevor Matthews, B.A. (*Brit. Col.*), M.B.A. (*Stanford*), Part-time Lecturer in Economics.

ECONOMICS

INDIVIDUAL COURSES

Students who wish to take only one or two courses in Economics may be interested in the following two courses. Economics 100 deals with the basic concepts of Economics; it is recommended as an introductory course in Economics. Economics 200, Group I and Group II, is recommended to all students who wish to take an advanced lower division course in the techniques of economic analysis. Upper division courses may also be taken subject to the regulations governing the prerequisite courses.

GENERAL, MAJOR AND HONOURS PROGRAMMES

Requirements:

- (i) For General Programme with 9 units in Economics:
- | | | |
|----------------------------|---|--|
| (a) Economics 100 | } | or, Economics 200, Group II, for all those students who have no credit in Economics 100. |
| (b) Economics 200, Group I | | |
- (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) Economics 100 | } | or, Economics 200, Group II, for all those students who have no credit in Economics 100. Second class standing will be required in Economics 200, Group II. |
| (b) Economics 200, Group I, with at least a second class standing | | |
| (c) Economics 300, 321, 340, 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: Mathematics 130.

(iii) For Honours:

- | | | |
|---|---|--|
| (a) Mathematics 130, unless otherwise permitted by the Department to omit this requirement in special circumstances; | } | or, Economics 200, Group II, for all those students who have no credit in Economics 100. High second class standing will be required in Economics 200, Group II. |
| (b) Economics 100 | | |
| (c) Economics 200, Group I, with at least a high second class standing | | |
| (d) Economics 300, 321, 340, 400, 470 and 21 additional units of which at least 12 units must be in Economics courses numbered above 300 and at least 6 units must be in another subject or subjects with the approval of the Department. | | |

Recommended: Commerce 151, Mathematics 230, Political Science 200 or 410.

- (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 will be required to attend the Seminars. There will be a comprehensive examination in Economics 470 at the end of the Fourth Year in which at least a second class standing will be required for Honours.

COURSES OFFERED

Economics 200 is a prerequisite for all Third Year courses but, in special cases, it may be taken concurrently with 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 under exceptional circumstances.

Although at present Economics 100 is not a prerequisite for Economics 200, it is recommended to all students who are planning to take a Major or Honours in Economics, or to take courses in Economics under the General programme, leading to the degree of B.A.

100. (3) Introduction to Economics

Basic economic concepts with reference to the main features of the Canadian economy. Attention will be given to the evolution of institutions and processes involved in the production and distribution of wealth; special emphasis will be placed on basic determinants of prices and costs and determinants of income and employment.

Text: To be announced.

Dr. Bertram and Dr. Pal.

(3-0; 3-0)

NOTE: This course is not a prerequisite for Economics 200, but it is recommended to all students who are planning to take Economics 200. Students with Economics 200 standing will not be permitted in this course, nor will they be permitted to register in the two courses concurrently.

200. (3) **Principles of Economics**

An introduction to economic analysis with special reference to the theory of demand, the theory of the firm, fluctuations in income and prices, monetary and fiscal policies for economic stabilization, international trade and foreign exchanges, economic growth; related topics.

Text: To be announced.

Staff.

Group I: for students who have obtained credit in Economics 100: (3-0; 3-0)

Group II: for students with no credit in Economics 100: (3-0-2; 3-0-2)

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

305. (3) **Money and Economic Activity**

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

Text: To be announced.

Dr. Laudadio. (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.

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

315. (3) **Labour Economics and Institutions**

An examination of labour as a factor of production; the development of national labour markets and their contemporary structure; functions and performance. Amongst other areas, consideration will be given to the following: industrial relations systems, labour history, the nature of organized labour, the collective bargaining process, contemporary labour problems and public policy.

Text: To be announced.

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

320. (3) **Comparative Economic Development**

Selected topics in economic history and long-run economic growth, examining the experience of economic development in advanced and developing countries.

Text: To be announced.

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

321. (3) **The Economic History of Canada**

The study of long-run economic growth and welfare in the Canadian economy, with the aid of economic analysis, quantitative data and other historical materials. Emphasis on the development of the Canadian economy from a resource-based economy to a developed industrial economy within an international setting. Consideration of the sources of Canadian economic growth and the reasons for Canadian income differentials with other nations.

Text: To be announced.

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

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.

Text: To be announced.

Dr. Laudadio.

(3-0; 3-0)

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

Descriptive statistics, probability theory, theoretical distribution, sampling distribution, hypothesis testing, decision theory, regression and correlation, time-series analysis and index numbers.

Text: To be announced.

Mr. Carter.

(3-0; 3-0)

NOTES: 1. Admission to this course only with the permission of the Department.

2. This course may be taken concurrently with Economics 200 only with the permission of the Department.

350. (1½) **Soviet Economics**

An examination of the theory of economic planning, the Soviet method of determining economic ends, and the development and practice of consequent economic institutions. Some time will be given to the unique problems of the Soviet economy and its current directions of change.

Text: To be announced.

(Not offered 1967-68).

(3-0; 0-0)

NOTE: Admission to this course only 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.

Dr. Bakony.

(3-0; 3-0)

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

An analysis of classical and neo-classical thought to the present; contributions of eclectics; socialists and institutionalists.

Text: To be announced.

(Not offered 1967-68).

(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.

Text: To be announced.

Dr. Jones.

(3-0; 3-0)

415. (1½) **Industrial Relations**

An examination of the development and nature of contemporary union-management relations including collective bargaining, and related public policy.

Text: To be announced.

Mr. Frenzel.

(3-0; 0-0)

416. (1-½) **Special Topics in Labour Economics**

Several topics, varying from year to year, will be the focus of lecture and student research, e.g., wage and employment theory, labour mobility, labour history, the theory of the labour movement, comparative industrial relations systems, the theory of bargaining, the public interest in collective bargaining, labour law, labour productivity, automation, etc.

Texts: To be announced.

Mr. Frenzel.

(0-0; 3-0)

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. Bertram and Dr. Pal.

(3-0; 3-0)

421. (1-½) **European and International Economic History**

The rise of capitalism and the Industrial Revolution especially in Western Europe. The British experience and comparative rates of growth in European countries, with some attention given to the transference of industrialization techniques to non-European countries.

Text: To be announced.

(Not offered 1967-68).

(3-0; 0-0)

422. (1-½) **American Economic History**

The economic history of the United States from colonial times to the present. Special emphasis on the techniques of the new economic history applied to the American experience.

Text: To be announced.

(Not offered 1967-68).

(0-0; 3-0)

430. (3) **Economics of Natural Resources**

The application of economic theory to the use and exploitation of natural resources. A discussion of economic theory in relation to problems of allocation, distribution, stability, and economic growth as they relate to resource management is undertaken, followed by an investigation of particular problems in various resource industries. Special emphasis will be placed on resource development problems in Canada and in British Columbia.

Text: To be announced.

Dr. Sewell.

(3-0; 3-0)

440. (3) **Mathematical Economics**

Utility and preference, theory of consumer demand, theory of the firm, aggregation, input-output analysis and linear programming.

Text: To be announced.

Mr. Carter.

(3-0; 3-0)

445. (3) **Econometrics**

The concept of an econometric model; the linear regression model applied to problems of economic analysis; linear programming; input-output analysis. Laboratory sessions will be devoted to preparation of data and the use of the computer. Prerequisites: Economics 340, Mathematics 222.

Text: To be announced.

Dr. Bakony.

(3-1; 2-2)

NOTE: Admission to this course only with the permission of the Department.

470. (3) **Honours Seminar**

NOTE: For Honours students only.

Dr. Pal.

495. (3) **Directed Studies**

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

GENERAL, MAJOR AND HONOURS PROGRAMMES

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. In addition, four other courses are to be chosen from any three of the Group I-VI. 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, 307, 430, and 490.

COURSES OFFERED

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

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. Prerequisite: Political Science 300. (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. (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. (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. (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. (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. (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 1967-68).

(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. (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 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. (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. (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 (Leave of absence 1967-68).
- John D. Peter, M.A. (*Cantab.*), B.A., LL.B., D. Litt. (*South Africa*), Professor.
- Robin Skelton, M.A. (*Leeds*), F.R.S.L., Professor and Director of Creative Writing.
- Burton O. Kurth, B.A. (*Brit. Col.*), Ph.D. (*Calif.*), Associate Professor.
- Chester L. Lambertson, M.A. (*Alta.*), Ph.D. (*Harvard*), Associate Professor.
- Robert G. Lawrence, M.A. (*New Brunswick*), Ph.D. (*Wisconsin*), Associate Professor.
- Frederick Mayne, B.A., Ph.D. (*Witwatersrand*), Associate Professor.
- 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, and Director of English Honours Programme.
- 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.
- Michael R. Best, B.A., Ph.D. (*Adelaide*), Assistant Professor.
- Miss Joan Coldwell, M.A. (*London*), Ph.D. (*Harvard*), Assistant Professor.
- Melvyn D. Faber, B.A. (*Chicago*), M.A., Ph.D. (*U.C.L.A.*), Assistant Professor.
- John G. Hyman, M.A. (*Oxon.*), M.A. (*Cornell*), Ph.D. (*Northwestern*), Assistant Professor.
- Anthony W. Jenkins, M.A. (*Cantab.*), Assistant Professor.
- Mrs. Patricia Köster, B.A. (*Brit. Col.*), M.A. (*Calif.*), Ph.D. (*London*), Assistant Professor and Director of Library Ordering.
- Samuel L. Maccy, B.A. (*Brit. Col.*), Ph.D. (*Wash.*), Assistant Professor.
- Henry Summerfield, M.A. (*Oxon.*), M.Litt. (*Durham*), Assistant Professor.
- Edward R. Zietlow, M.A. (*Boston*), Ph.D. (*Wash.*), 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.
- Alan F. Dilnot, B.A., B.Phil. (*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.
- Philip E. Heron, M.A. (*Calif.*), Instructor.
- Alexander N. Hutchinson, M.A. (*Aberdeen*), Instructor.
- Mrs. Marjorie R. Menhennett, B.A. (*Wellesley*), M.A. (*Calif.*), Instructor.
- Philip McM. Pittman, A.B. (*Kenyon Coll.*), Instructor.
- Karlcen G. Redle, B.A. (*Wash. U., St. Louis*), Instructor.
- Nelson C. Smith, A.B. (*Princeton*), M.A.T. (*Oberlin*), Instructor.
- Reginald C. Terry, M.A. (*Bristol*), Instructor. (Leave of absence 1967-68).
- David S. Thatcher, B.A. (*Cantab.*), M.A. (*McMaster*), Instructor.
- Brian H. Thomas, B.A. (*Man.*), M.A. (*Tor.*), Instructor.
- Sean R. Virgo, B.A. (*Nottingham*), Instructor.
- Gordon A. J. Watt, M.A. (*Aberdeen*), Instructor. (Leave of absence 1967-68).
- Trevor L. Williams, B.A. (*Manchester*), Instructor. (Leave of absence 1967-68).
- Miss Carol Wootton, B.A. (*U. of Vic.*), A.R.T.C. (*Tor.*), L.R.S.M. (*London*), Instructor.
- Mrs. Margaret N. Cutt, M.A. (*Alta.*), Lecturer.
- Mrs. Velma Gooch, M.A. (*Alta.*), Lecturer.
- Mrs. Sheila M. Hogg, B.A. (*U. of Vic.*), M.A. (*Wash.*), Lecturer.
- Mrs. Eugenie L. Myles, M.A. (*Alta.*), 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. In the last three years candidates will offer at least 48 units of credit. Students are advised to take English 245 in their Second Year. In the Third and Fourth Years students are required to take English 441, 443, 446, 447, and 499 (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 Italian, French, German, Spanish, Russian, Latin or Greek. At the end of the Fourth Year there will be an interview at which the student may be required to defend his Graduating Essay.

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 or English 203 is prerequisite for all English courses above 300.

English 201 or 203 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. They 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 Linguistics 390 as part of their English programme with the consent of the Head of the Department of English.

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

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.; *31 Stories*, eds. M. R. Booth and C. S. Burhans; Shaw, *St. Joan*; Shakespeare, *Othello*; Wilde, *The Importance of Being Earnest*; Arthur Miller, *The Crucible*; Hardy, *Tess of the d'Urbervilles*.

villes; Sinclair Lewis,* *Babbitt*; Gabrielle Roy,* *The Tin Flute*; D. H. Lawrence,* *Sons and Lovers*; Guth, *Concise English Handbook*, (2nd edition).

*Instructors will select one of these three texts.

Approved editions of the above texts will be available in the University Bookstore.
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: Shakespeare, *Measure for Measure*; Golding, *The Inheritors*; Forster, *Passage to India*; Fitzgerald, *The Great Gatsby*; O'Casey, *June and the Paycock*; Osborne, *Look Back in Anger*; Hardy, *The Mayor of Casterbridge*; Eliot, *Selected Poems*; Conrad, *Nostromo*; Hemingway, *The Snows of Kilimanjaro*; and *Other Stories*; Crane, *The Red Badge of Courage*; Styron, *The Long March*; Camus, *The Plague*; Cary, *The Horse's Mouth*; Beckett, *Endgame*; Lawrence, *Complete Short Stories*, Vol. 1; Neuhar, *Moral Man and Immoral Society*; Barrett, *Irrational Man*.

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. (3-0; 3-0)

203. (3) **An Introduction to American Literature**

Texts: Viking Portable *American Literature Survey* (4 vols. Paperback); Thoreau, *Walden and Civil Disobedience*; Hawthorne, *Short Stories*; Melville, *Bartleby, Encantadas, Cereno, Budd*; Whitman, *Complete Poetry and Selected Prose*; Twain, *Huckleberry Finn*; James, *Turn of the Screw, Daisy Miller*; Hemingway, *The Sun Also Rises*; Faulkner, *Intruder in the Dust*; Steinbeck, *The Pearl*; Fitzgerald, *The Great Gatsby*; Bellow, *The Victim*; *The Hairy Ape* (in *American Literature Survey*); Baldwin, *Blues for Mr. Charlie*. (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*; A. H. Hoole, *The Fundamentals of Clear Writing*; Perrine, *Sound and Sense; An Introduction to Poetry*. Other texts 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) **The Theory and Practice of Poetry**

A Creative Writing course which includes the study of the nature of the creative process, the nature of verbal communication, and prosody.

Prerequisite: Consent of the Department. (3-0; 3-0)

402. (3) **The Theory and Practice of Fiction**

A Creative Writing course which includes the study of prose structures and the forms of the novel, conte, and short story.

Prerequisite: Consent of the Department. (3-0; 3-0)

403. (3) **The Theory and Practice of Drama**

A Creative Writing course which includes the study of the various dramatic forms and conventions.

Prerequisite: Consent of the Department.

(Not offered 1967-68). (3-0; 3-0)

404. (3) **The Writing of Poetry**

A Creative Writing course for advanced students.

Prerequisite: English 401 or the consent of the Department. (3-0; 3-0)

405. (3) **The Writing of Fiction**

A Creative Writing course for advanced students.

Prerequisite: English 402 or the consent of the Department. (3-0; 3-0)

406. (3) **The Writing of Drama**

A Creative Writing course for advanced students.

Prerequisite: English 403 or the consent of the Department.

(Not offered 1967-68). (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)

410. (3) **The Renaissance Background of Ideas: Boethius to Bacon**
 A study of the main currents of thought contributing to late medieval and Renaissance literature.
 Texts: To be announced.
 (Not offered 1967-68). (3-0; 3-0)
411. (3) **The Development of English 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. (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. (3-0; 3-0)
414. (3) **Special Studies in Shakespeare**
 Intensive study of a few plays and related critical issues. English 413 is not a prerequisite but students must have a general knowledge of Shakespeare's work.
 Texts: To be announced. (3-0; 3-0)
418. (3) **Poetry and Prose of the 17th Century excluding Milton and Dryden**
 A study of the major trends in poetry and prose. Some attention will be given to the social, religious and philosophical background of the period.
 Texts: To be announced.
 (Not offered 1967-68). (3-0; 3-0)
419. (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. (3-0; 3-0)
420. (3) **Non-dramatic 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. (3-0; 3-0)
421. (3) **Literature of the Mid and Late 18th Century**
 Poetry and criticism of the period. (3-0; 3-0)
422. (3) **A Survey of British Drama from the Restoration to the 19th Century**
 Texts: To be announced.
 (Not offered 1967-68). (3-0; 3-0)
423. (3) **The beginning of the British Novel in the 17th and 18th centuries**
 Texts: To be announced. (3-0; 3-0)
424. (3) **The British Novel in the 19th Century**
 Texts: To be announced.
 (Not offered 1967-68). (3-0; 3-0)
426. (3) **Problems in American Literature**
 A seminar concentrating on a single area or on a major figure of American literature.
 Prerequisite: English 203 or consent of the Department.
 Texts: To be announced.
 (Not offered 1967-68). (3-0; 3-0)

427. (3) **American Poetry**
 An historical survey of American poetry from its beginnings to the early twentieth century.
 Texts: To be announced.
 (Not offered 1967-68). (3-0; 3-0)
428. (3) **American Prose Literature to 1890**
 A study of significant writings from the Puritans to Henry James.
 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 Bookstore. (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. (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 and the Aran Islands*; Wells, *Tono-Bungay*; Wilde, *Plays, Prose Writings and Poems*; Yeats, *Collected Poems*; Gaunt, *The Aesthetic Adventure*; Galsworthy, *The Man of Property*. (3-0; 3-0)
434. (3) **Major Modern Poets of Britain and America**
 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: Shaw, *Pygmalion*, *Heartbreak House*; Maugham, *The Constant Wife*; Coward, *Hay Fever*; O'Casey, *Juno and the Paycock*; Eliot, *The Cocktail Party*; Fry, *The Lady's Not for Burning*; Beckett, *Waiting for Godot*; Behan, *The Quare Fellow*; Osborne, *Look Back in Anger*; Delaney, *A Taste of Honey*; Wesker, *Roots* (in *Wesker Trilogy*); Pinter, *The Dumb Waiter*, *The Caretaker*; Bolt, *A Man for All Seasons*; Mortimer, *Two Stars for Comfort*; Arden, *Sergeant Musgrave's Dance*; Shaffer, *The Royal Hunt of the Sun*; O'Neill, *The Iceman Cometh*; Odets, *Awake and Sing*; Steinbeck, *Of Mice and Men*; Rice, *The Adding Machine*; Wilder, *Our Town*; Connelly, *Green Pastures*; Maxwell Anderson, *Winterset*; Hellman, *The Little Foxes*; Miller, *A View from the Bridge*; Albee, *Who's Afraid of Virginia Woolf?*; Baldwin, *Blues for Mister Charlie*; Lerner & Loewe, *My Fair Lady*. Further texts to be announced.

438. (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)

439. (3) **Commonwealth Literature**

(Not offered 1967-68).

(3-0; 3-0)

HONOURS COURSES

With the consent of the Department these courses are open to interested students not registered in Honours.

441. (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*. (3-0; 3-0)

443. (3) **Introduction to Chaucer**

A study of Chaucer with emphasis on the *Canterbury Tales*.

Prerequisite: Consent of the Department.

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. (3-0; 3-0)

444. (3) **Middle English Literature**

A study of Chaucer's *Troilus* and his other major works (excluding the *Canterbury Tales*) in relation to fourteenth and fifteenth century literature. Other works such as *Piers Plowman*, *Gawain*, *Pearl* will also be studied.

Prerequisite: Consent of the Department.

Texts: To be announced.

(Not offered 1967-68). (3-0; 3-0)

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

A seminar in the history of critical theory, with a study of its relation in practice to specific genres and styles.

Text: 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. (3-0; 3-0)

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

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. (Leave of absence 1967-68).

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

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

Harold D. Foster, B.Sc. (*London*), Instructor.

Elizabeth A. M. Forrester, B.Sc. (*Glasgow*), M.A. (*Brit. Col.*), Laboratory Supervisor.

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 130; all students are advised to select French, Russian or German in fulfilment 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. A student who has not taken all of these courses by the end of his second year may complete the requirement as part of his third-year programme, in accordance with general University regulations. 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: Geography 201, 203, Mathematics 220 or 221, and two other science courses not yet taken. A student who has not taken all of these courses by the end of his

second year may complete the requirement as part of his third-year programme, in accordance with general University regulations. 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.

Staff.

(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 economic activities. (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. (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. (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. (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. Lycan. (3-0; 3-0)

306. (3) **Biogeography**

An analysis of the areal distribution of plant, soil and animal communities. Historical aspects of plant and animal dispersal and migration, and their relation to present day distribution patterns will be considered. Major emphasis will be placed upon distribution in relation to present environmental factors, both physical and cultural, with particular attention to vegetation-soil relationships. Geography 203 or Biology 320 strongly recommended.

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

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. (3-0; 3-0)

309. (3) (R.) **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. (3-0; 3-0)

310. (3) **Industrial Geography**

(Not offered 1967-68). (2-1; 2-1)

311. (3) **The Geography of Economic and Cultural Change**

A review of the variable factors affecting lesser developed parts of the world, and of technological, economic and cultural changes which result from the inter-action of these factors. The initial part of the course will be devoted to a systematic treatment of factors affecting change. The second part of the course will consist of a number of geographical studies of areas at different stages of development. Students without the usual prerequisite who are particularly interested in the course should discuss the matter with the instructors.

Staff. (3-0; 3-0)

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, Mr. Foster. (3-0; 3-0)

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**

(Not offered 1967-68). (3-0; 3-0)

406. (3) **Geography of Resources: Management and Conservation**

A study of factors conditioning the management and conservation of natural resources in various parts of the world. Attention will be focussed on problems of the disparate world distribution of resources, their relations with rapidly-growing populations and their role in raising the standards of living of less-developed parts of the world. Past approaches to the management of resources will be examined and factors that have led to changes in such approaches will be suggested.

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

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

(Not offered 1967-68). (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**

(Not offered 1967-68). (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.

Mr. Foster. (2-2; 2-2)

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

Section 1. Problems in weather modification, climatic change, economic climatology, agroclimatology, soil and vegetation classification, tropical soils, biological and physical aspects of resource use.

Prerequisite: Consent of instructors.

Dr. Maunder, Mr. Edgell. (0-0-3; 0-0-3)

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

Regional Analysis. The development and role of theories in human geography, the concept of region, models of spatial interaction, and theories of optimal location.

Prerequisite: Consent of the instructor.

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

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

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.*), F.R.Hist.S., 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.

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

Ernest Forbes, B.A., B.Ed. (*Mount Allison*), Instructor.

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

John Money, B.A. (*Cantab.*), Instructor.

Christopher Rowe, B.A. (*Liverpool*), Instructor.

Miss Patricia E. Roy, B.A. (*Brit. Col.*), M.A. (*Tor.*), Instructor.

Mrs. Stella Higgins, B.A. (*U. of Vic.*), Part-time Lecturer.

Brian R. D. Smith, B.A., LL.B. (*Brit. Col.*), M.A. (*Queen's*), Part-time Lecturer.

John A. Munro, M.A. (*Brit. Col.*), Honorary Research Associate.

GENERAL, MAJOR AND HONOURS PROGRAMMES

History 200, 201, 204, 212 are open to First Year students: First Year students are advised, however, that second-year level of performance will be required.

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*: one of History 101, 200 or 204.

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*: one of History 101, 200 or 204.

Honours — Prerequisites for admission to the Third Year include a First or high Second Class standing in one of History 101, 200 or 204, 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, one of History 101, 200 or 204, 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, 499; three courses in an area of special interest as approved by the Department; two other courses in the Department and two outside the Department (36 units).

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, Ger-

man, 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 one history course in another department as part of the requirement. Students must receive permission to do so from the Head 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.

Texts: Chambers, *This Age of Conflict*, Third ed.; Brison D. Gooch, *Interpreting European History*, Vol. II.

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: Selected paperback books.

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

204. (3) **Medieval Europe**

A survey of medieval history from the fall of the Roman Empire to the thirteenth century.

Text: To be announced.

Mr. Money. (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*; and other assigned readings.

Dr. Roy. (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.

Text: To be announced.

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

311. (3) **The First British Empire**
 A survey of the Anglo-American settlements, 1607-1783.
 Text: To be announced.
 Mr. Rowe. (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.
 (Not offered 1967-68). (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. (3-0; 3-0)
314. (3) **Europe from Westphalia to Waterloo**
 A history of Europe from 1648 to 1815, with special emphasis on the political, economic and social thought of the period.
 Text: To be announced.
 Dr. Shelton. (3-0; 3-0)
318. (3) **Tudor and Stuart England, 1485-1688**
 An intensive study of England during the sixteenth and seventeenth centuries. One essay will be assigned during the Session.
 Texts: To be announced.
 Dr. Jackman. (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*; and other assigned readings.
 Dr. Roy. (3-0; 3-0)
333. (3) **Third Year Honours Seminar**
 Bibliography, methodology, and the philosophy of history.
 Text: Walsh, *Philosophy of History: An Introduction*.
 Miss Girard. (3-0; 3-0)
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) **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.
 (Not offered 1967-68). (3-0; 3-0)

406. (3) **History of France, 1789-1945**

A study of the economic, social, political and cultural development of France, 1789-1945. One essay will be assigned during the Session.

Text: To be announced.

Miss Girard.

(Not offered 1967-68).

(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.

(Not offered 1967-68).

(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: Selected paperback books.

Dr. Hendrickson.

(3-0; 3-0)

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

The evolution of Europe from 1815 to 1914, with special emphasis on the political, economic and social thought of the period. One essay will be assigned during the Session.

Text: To be announced.

Dr. Shelton.

(Not offered 1967-68).

(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.

Mr. Money.

(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.

Mr. Smith.

(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.

(Not offered 1967-68).

(3-0; 3-0)

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

A study of the evolution of American institutions and ideas.

Text: To be announced.

Dr. Hendrickson.

(3-0; 3-0)

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

Historiography.

Text: To be announced.

Dr. Jackman.

(3-0; 3-0)

499. (6) **Graduating Essay in Honours**
Staff.

GRADUATE SEMINARS

501. (3) **British History**
503. (3) **Western Canadian History**
505. (3) **Intellectual History**
512. (3) **American History**
(Not offered 1967-68).
599. (6) **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.C.S., 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.

J. F. Kess, B.Sc. (*Georgetown*), M.A. (*Hawaii*), Instructor.

H. J. Warkentync, B.A. (*West Ont.*), M.A. (*London*), Instructor.

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. Linguistics 481 should be of interest to mathematicians.

GENERAL, MAJOR AND HONOURS PROGRAMMES

General — Students who wish to proceed to the B.A. degree under the regulations for the General Programme and who wish to study Linguistics as one of their fields of concentration are urged to take one of the following as their second field of concentration: Anthropology, Classical or Modern Languages, English, Mathematics, Psychology.

Students who begin the study of Linguistics as one of their fields in the General Programme in their first or second years should take Linguistics 100 or 210, 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, Linguistics 250, 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.

Honours — Students who wish to take an Honours Programme in Linguistics begin the programme in the third year with permission of the Department. Honours students must: (a) achieve at least a B average in all Linguistics courses taken in each of the third and fourth years and maintain a second-class average in all work of the third and fourth years; (b) present a senior Linguistics course in each of the third and fourth years additional to those required for the major, one of which must be Linguistics 499.

SAMPLE PROGRAMMES FOR A MAJOR IN LINGUISTICS

	With a concentration of electives in Mathematics
<p>With a concentration of electives in English</p> <p><i>Year</i></p> <p>I. Linguistics 100 English 100 A language Elective (Philosophy 202 recommended) Elective (A Science course recommended)</p> <p>II. Linguistics 250 English 200 The language begun in the first year Elective (If Linguistics 100 has not been taken, it must be taken here.) Elective</p> <p>III. Linguistics 390 Linguistics 370 or 380 Linguistics 460 English 405 Elective (If no previous Linguistics courses have been taken, Lin- guistics 360 will be taken here.)</p> <p>IV. Linguistics 420 or elective Linguistics 430 A Senior Linguistics course English 427 A senior English course</p>	<p>Linguistics 100 Mathematics 130 English 100 Philosophy 202 A language</p> <p>Linguistics 250 Mathematics 220 The language of first year Elective (If Linguistics 100 has not been taken, Linguistics 210 will be taken here.)</p> <p>Linguistics 370 recommended; another senior linguistics course allowed. Linguistics 380 recommended; another senior linguistics course allowed. Mathematics 222 (if not already taken.) Mathematics 249 An elective (If no previous courses in linguistics have been taken Linguistics 360 will be taken here.)</p> <p>Linguistics 481 Linguistics 460 Mathematics 332 Mathematics 330 or a course selected in consultation with the Mathematics Department.</p>

Students in English who wish to have Linguistics as a second area of concentration should take Linguistics 100 or 210 or 250 and at least three senior Linguistics courses, including Linguistics 390. Students in English who begin the study of Linguistics in their third year may satisfy the requirements for Linguistics as an area of concentration by taking Linguistics 360 and two other senior Linguistics courses, including Linguistics 390.

Students in Mathematics who wish to have Linguistics as a second area of concentration should take Linguistics 100 or 210 or 250 and three senior courses in Linguistics, including Linguistics 481. Students in Mathematics who wish to begin the study of Linguistics as an area of concentration in their third year should take Linguistics 360 and two other senior Linguistics Courses, including Linguistics 481.

COURSES OFFERED

100. (3) Introduction to Linguistics

The nature of language. Elementary methods of language analysis. The major language families of the world. Principles of historical and comparative linguistics. Illustrations from various languages.

Texts: Robins, *General Linguistics*; *Introduction to Linguistics*, by the Department. Recommended Reading: Ornstein and Gage, *The ABC's of Languages and Linguistics*.

J.-P. Vinay and members of the Department.

(2-0-1; 2-0-1)

210. (3) **Studies in Linguistics**

An introduction to several models of grammatical description, followed by a treatment of grammatical categories in various languages; historical linguistics; dialect geography; semantics. The inter-relationships of language, thought and culture will be emphasized. The course will also treat the psychology of language and the language of machines.

Not open to students with Linguistics 100.

Texts: Carroll, *Language and Thought*; Bloomfield, *Language History*; Salomon, *Semantics and Common Sense*; Gleason, *Introduction to Descriptive Linguistics*.

Dr. O'Grady and members of the Departments of Psychology and Mathematics.
(3-0; 3-0)

250. (3) **Phonetics and Phonemics**

This course will deal with the theory of the production and nature of speech sounds in general, and provide practice in recognizing, transcribing, and producing a wide variety of such sounds. Attention will be given to the ways in which the sound systems of particular languages are structured.

Prerequisites: Linguistics 100 or 210 or permission of the Department.

Texts: Smalley, *Manual of Articulatory Phonetics and Workbook*; Pike, *Phonemics*.
Dr. O'Grady.
(3-0; 3-0)

320. (3) **Seminar in Linguistics**

A special programme of study to be arranged to meet the needs of individual students.
(3-0; 3-0)

350. (3) **Seminar in Languages**

An elementary analysis of one or two languages to be selected by students from the following list: Old Norse, Estonian, Finnish, Hungarian, Welsh, Japanese, Norwegian, etc.

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

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.

Texts: Gleason, *Introduction to Descriptive Linguistics and Workbook*; Dineen, *General Linguistics*.

H. J. Warkentyne.
(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.

(Not offered 1967-68).
(3-0; 3-0)

380. (3) **Acoustic Phonetics**

The study of the acoustic properties of speech sound, as determined by the actual use of such instruments as the Electronic Vocal Analog, the Sound Spectrograph, and the Speech Stretcher.

Prerequisite: Linguistics 250 or permission of the Department.

Texts: Ladefoged, *Elements of Acoustic Phonetics*; Malmberg, *Structural Linguistics and Human Communication*; Pulgram, *Introduction to the Spectrography of Speech*.

H. J. Warkentyne.
(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*; Fries, *Structure of English*; Thomas, *Transformational Grammar*; Sledd, *Introductory English Grammar*.

Dr. Scargill and J. F. Kess. (3-0; 3-0)

400. (3) **Field Methods and Techniques in Language Analysis**

Field methods and techniques in language analysis, using informants or recordings or both. The Department is particularly interested in American Indian and Eskimo languages. Prerequisite: permission of the Department.

Texts: Samavin, *Field Methods in Linguistics*.

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.

(Not offered 1967-68). (3-0; 3-0)

430. (3) **Dialectology and Lexicography**

The study of regional dialects with emphasis on Canada. The principle of lexicography, national, regional, historical, bilingual, technical.

Prerequisites: Linguistics 100 or 210 or 360 or permission of the Department.

Texts: Kurath, *Handbook of the Linguistic Geography of New England*; Malstrom, and Ashley, *Dialects — U.S.A.*; Hulbert, *Dictionaries: British and American*; McIntosh, *Introduction to a Survey of Scottish Dialects*.

Members of the Department.

(3-0; 3-0)

448. (3) **Directed Reading In Linguistics**

(3-0; 3-0)

460. (3) **Morphology and Syntax**

The theory of the descriptive analysis of words (morphology). Grammatical analysis at the sentence level (syntax), based on several contemporary models of grammar.

Prerequisite: Linguistics 100 or 210 or 360 or permission of the Department.

Texts: Nida, *Morphology*; Bach, *An Introduction to Transformational Grammars*.

(Not offered 1967-68). (3-0; 3-0)

470. (Psychology 470) (3) **Seminar in Psycholinguistics**

Discussion of recent research and conduction of experiments in specific areas of psycholinguistics, e.g., investigations of verbal parameters, grammatical transformations, language perception and language pathology.

Prerequisite: Psychology/Linguistics 370 or consent of instructor.

Drs. Vinay and Spreen.

(3-0; 3-0)

480. (3) **Contrastive Linguistics**

A comparison of the structures of two languages to show their similarities and differences. Students may elect one of the following groups: (1) French-English; (2) Russian-English; (3) German-English.

Prerequisite: permission of the Departments.

Text: To be announced.

Members of the Departments of Linguistics and Modern Languages.

(Not offered 1967-68).

(3-0; 3-0)

481. (3) **Introduction to Computer Linguistics**

Principles of computer analysis and synthesis of language data. The design and use of automatic dictionaries. Exercises in mechanical translation.

Prerequisite: permission of the Department.

Text: Garvin, *Natural Language and the Computer*.

J.-P. Vinay.

(Not offered 1967-68).

(3-0; 3-0)

499. (3) **Honours Essay**

An essay required of honours students in the fourth year.

GRADUATE COURSES

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

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)

504. (3) **Seminar in Machine Translation**

J.-P. Vinay.

(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. (Leave of absence 1967-68).
Robert A. Christiansen, B.A., M.S., Ph.D. (*Iowa*), Assistant Professor.
Roger R. Davidson, B.Sc. (*Queen's*), M.A. (*Tor.*), Ph.D. (*Florida State*), Assistant Professor.
Ernest Fickas, A.B., M.A., Ph.D. (*Calif.*), Assistant Professor.
William R. Gordon, M.A. (*Brit. Col.*), Ph.D. (*Calif.*), Assistant Professor.
Walter P. Kotorynski, B.A. (*West. Ont.*), M.A., Ph.D. (*Tor.*), Assistant Professor.
Robert A. MacLeod, B.Sc. (*Alta.*), M.Sc. (*Cal. Tech.*), Ph.D. (*Alta.*), Assistant Professor.
Pauline van den Driessche, M.Sc. (*Imp. Coll.*), D.I.C., Ph.D. (*Univ. of Wales*), Assistant Professor.
Virginia E. Walsh, B.A. (*DePauw*), M.A., Ph.D. (*Oregon*), Assistant Professor.
Ian Barrodale, B.Sc. (*Univ. College of N. Wales*), M.Sc. (*Brit. Col.*), Instructor.
Ernest J. Cockayne, M.A. (*Oxon.*), M.Sc. (*McGill*), Instructor.
Zulette Gordon, B.A. (*Brit. Col.*), M.A. (*Calif.*), Instructor.
David J. Leeming, B.Sc. (*Brit. Col.*), M.A. (*Oregon*). (Leave of absence 1967-68).
H. Paul Smith, B.A., M.Ed. (*Brit. Col.*), Instructor.
James L. Tyler, B.A. (*Whitman*), M.A. (*Oregon*), Instructor.
Robert C. Allen, B.Sc. (*Brit. Col.-Vic. Coll.*), Part-time Lecturer.
Susan Beth Christiansen, B.A., M.S. (*Iowa*), Lecturer.
Peter A. Darling, M.A.Sc. (*Brit. Col.*), P.Eng., 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 the General Course.

A. For students currently enrolled at the University.

General — Mathematics 120 or 121, 220 or 221 (see note 4 below), 222 or 223 and 9 units of Mathematics courses numbered 300 or higher.

Major — First and Second Years: Mathematics 120 or 121 (see note 2 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 8 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 332 (or in Mathematics 333 with permission of the department) in their third year and Mathematics 335 in their fourth year. Because of the increasing importance of computing and data processing, students taking a major in Mathematics are advised to include a course on computing before they graduate. In particular, students wishing to major with a concentration in computing science are urged to take Mathematics 249 in their second year. Students who are considering teaching Mathematics in Secondary School are urged to take Mathematics 337.

Honours — First and Second Years: Mathematics 121 (see note 2 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 particular, students who are interested in computing science are urged to take Mathematics 249 in their second year. 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: A minimum of 60 units is required for graduation on the Honours programme in Mathematics.)

B. For students enrolling in first year in 1967 or subsequent years.

General — Mathematics 130 (see notes 3, 5 and 6 below), 230 or 231 (see note 4 below), 232 or 233 (see note 7) and 9 units of Mathematics courses numbered 300 or higher.

Major — First and Second Year: Mathematics 130 (see notes 3, 5 and 6 below); Mathematics 230 or 231 (see note 4 below) and Mathematics 232 or 233 (see note 7 below). Third and Fourth Years: Mathematics 330 or 331, 332 or 333 (see note 8 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 332 (or in Mathematics 333 with permission from the department) in their third year and Mathematics 335 in their fourth year. Because of the increasing importance of computing and data processing, students taking a major in Mathematics are advised to include a course on computing before they graduate. In particular, students wishing to major with a concentration in computing science are urged to take Mathematics 249 in their second year. Students who are considering teaching Mathematics in Secondary School are urged to take Mathematics 337.

Honours — First and Second Years: Mathematics 130 (see notes 3, 5 and 6 below); Mathematics 231 (see note 4 below) and 233 (see note 7 below). 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 particular, students who are interested in computing science are urged to take Mathematics 249 in their second year. 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 231, 233. (NOTE: A minimum of 60 units is required for graduation on the Honours Programme in Mathematics.)

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: (a) Students entering the University with Senior Matriculation standing in Mathematics 101 or 112 will not be permitted to take any further mathematics courses unless they first take Mathematics 130 without credit.

(b) Students transferring from other British Columbia institutes, universities or 2-year colleges, before registering for additional courses in Mathematics, must satisfy the department that their knowledge of calculus is adequate. It may be necessary for these students to write a qualifying examination.

(c) Students entering the University with first year or senior matriculation standing from outside the province of British Columbia, before registering for further mathematics courses, must consult the department and may be required to write a qualifying

REQUIREMENTS IN THE DEPARTMENT OF MATHEMATICS

A. For students currently enrolled at the University

YEAR	GENERAL	MAJOR	HONOURS
I and II	Mathematics 120 or 121 Mathematics 220 or 221 Mathematics 222 or 223	Mathematics 121 or 120 Mathematics 220 or 221 Mathematics 222 or 223	Mathematics 121 Mathematics 221 Mathematics 223
III and IV	9 units of Mathematics in courses numbered 300 or higher	Mathematics 330 or 331 Mathematics 332 or 333 9 additional units of Mathematics in courses numbered 300 or higher.	Mathematics 331 Mathematics 333 Mathematics 335 Mathematics 433 Mathematics 435 6 additional units of Mathematics courses at least 3 of which must be at the 400 level.

Students must check the calendar to make sure that they satisfy the requirements for either a B.A. or B.Sc.

B: For students enrolling in first year in 1967

YEAR	GENERAL	MAJOR	HONOURS
I and II	Mathematics 130 Mathematics 230 or 231 Mathematics 232 or 233	Mathematics 130 Mathematics 230 or 231 Mathematics 232 or 233	Mathematics 130 Mathematics 231 Mathematics 233
III and IV	9 units of Mathematics in courses numbered 300 or higher.	Mathematics 330 or 331 Mathematics 332 or 333 9 additional units of Mathematics in courses numbered 300 or higher.	Mathematics 331 Mathematics 333 Mathematics 335 Mathematics 433 6 additional units of Mathematics courses at least 3 of which must be at the 400 level.

Students must check the calendar to make sure that they satisfy the requirements for either a B.A. or a B.Sc. Degree.

examination based on the material covered in Mathematics 120 (as given in 1966-67). Such students who are unable to satisfy the department as to the adequacy of their preparation will be required to take Mathematics 130 for no credit.

NOTE 5: Students wishing to take Mathematics 130 who have no credit for Mathematics 12 (this includes students who have credit in Mathematics 91 only) may:

(a) write a qualifying examination demonstrating their competence in the material normally included in Mathematics 12; or

(b) satisfy the department that they have completed the Department of Education correspondence course in Mathematics 12; or

(c) register in Mathematics 130, section 1 (3 hours of lectures and 4 hours tutorial per week). Admission to this section requires the permission of the department. This permission will normally be given only to students with good standing in Mathematics 11 (or Mathematics 91) who can substantiate their need to obtain credit for Mathematics 130 in First Year.

NOTE 6: Students who have failed Mathematics 120 or 121 must register in Mathematics 130, section 2 (4 hours of lectures and 2 hours of tutorials per week). Students who have failed to obtain any credit for first year but who have obtained at least a C in Mathematics 120 or 121 should consult the department before registration.

NOTE 7: First year students who have obtained at least 80 per cent in Mathematics 12, may, with the consent of the department, enrol in Mathematics 130 and 222 or 223 concurrently. Students who can demonstrate to the department that they have mastered the material normally covered in Mathematics 120 or 121 (as given in 1966-67) may be permitted to enrol in Second Year Mathematics courses.

NOTE 8: Students with clear standing and a second class average or higher in at least 15 units in Second Year and who have a B+ or higher in each of Mathematics 220 and 222 may, with the permission of the department, register for Mathematics 331, 333, 335.

COURSES OFFERED

FIRST YEAR

130. (3) **Calculus I**

Calculus of functions of one variable with applications.

Prerequisite: Mathematics 12. See notes 5, 6 and 7 above.

(4-0; 4-0)

160. (3) **Fundamental aspects of Mathematics for the Elementary Teacher**

For credit only in the Faculty of Education.

(3-0; 3-0)

SECOND YEAR

Students who have obtained a D grade in Mathematics 120, 121 or 130 may not register for further mathematics courses without permission from the Department.

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

For credit only in the Faculty of Education.

(3-0; 3-0)

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. Credit may not be obtained for both Mathematics 206 and 249.

(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, 3 and 4 page 121.

(3-0; 3-0)

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, 3, and 4 page 121.

(3-0; 3-0)

222. (3) Algebra and Geometry

Set theory; analytic geometry of 3 dimensions; the integers; rational, real and complex numbers; permutations; polynomials; vectors; matrices; systems of linear equations; determinants.

Prerequisites: Mathematics 120 or 121. Not open to students who have credit for Mathematics 223. See note 7.

(3-0; 3-0)

223. (3) Algebra and Geometry

Set theory; analytic geometry of 3 dimensions; the integers; rational, real and complex numbers; permutations; polynomials; vectors; matrices; systems of linear equations; determinants.

Prerequisites: at least second class standing in Mathematics 121 or in the qualifying examinations, and the consent of the department. See note 7.

(3-0; 3-0)

249. (3) Introduction to Computing Science

The nature of computers; machine languages; compiler languages, especially FORTRAN IV. An introduction to the study of algorithms, with applications to problems of interest to natural and social scientists. In the laboratory the student will write programmes in FORTRAN IV using the IBM 360 - Model 44.

Credit may not be obtained for both Mathematics 206 and 249.

Prerequisite: Mathematics 120 or 121.

(2-2; 2-2)

The following four courses, Mathematics 230, 231, 232 and 233 will be offered in 1968-69 and subsequent years. They are listed only for the information of students.

230. (3) Calculus II

Calculus of functions of several variables with applications, infinite series, simple differential equations.

Prerequisite: Mathematics 130 or equivalent.

(3-0; 3-0)

231. (3) Calculus II

Calculus of functions of several variables with applications, infinite series, simple differential equations.

Prerequisite: At least second class standing in Mathematics 130 or in the qualifying examination, and the consent of the department.

(3-0; 3-0)

232. (3) Algebra I

Introduction to Linear and Abstract Algebra.

Prerequisite: Mathematics 130 or equivalent.

(3-0; 3-0)

233. (3) Algebra I

Introduction to Linear and Abstract Algebra.

Prerequisite: At least second class standing in Mathematics 130 or in the qualifying examination, and the consent of the department.

(3-0; 3-0)

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 III

Partial differentiation, vectors and vector fields, curves and surfaces, line and surface integrals including Green's, Stokes' and the divergence theorems; infinite series.

Prerequisite: Mathematics 220 or 221.

(3-0; 3-0)

331. (3) **Calculus III**

Topics in Infinite series of functions, differentiation and integration of functions of several variables, vector field theory. Primarily for Honours students (see note 8 above).

Prerequisites: At least second class standing in each of Mathematics 221 or 223 and the consent of the department. (see note 8 above). (3-0; 3-0)

332. (3) **Algebra II**

Linear algebra and an introduction to abstract algebra. Primarily for General Course and Major students.

Prerequisites: Mathematics 220 or 221 and 222 or 223. (3-0; 3-0)

333. (3) **Algebra II**

Linear algebra and an introduction to abstract algebra. Primarily for Honours students. (see note 8 above).

Prerequisites: At least second class standing in each of Mathematics 221 and 223 and the consent of the department. (see note 8 above). (3-0; 3-0)

335. (3) **Real Analysis I**

Informal logic; real numbers; elements of metric topology; sequences and series; functions, limits, continuity; Riemann-Stieltjes integration. Open to Third Year Honours students and to Fourth Year students who have obtained the consent of the department.

Prerequisites: At least second class standing in each of Mathematics 221 and 223 and the consent of the department. (see note 8 above). (3-0; 3-0)

337. (3) **Modern Geometry**

Topics chosen from projective, differential and non-Euclidean geometries.

Prerequisites: Mathematics 220 or 221 and Mathematics 222 or 223. (3-0; 3-0)

339. (3) **Number Theory**

Congruences, numerical functions, elementary theory of primes, quadratic residues. Further topics to be selected from partitions, compositions, distribution of primes, geometry of numbers, rational approximations.

Prerequisites: Mathematics 222 or 223. (3-0; 3-0)

340. (3) **Probability**

Introduction to probability theory and its applications. Historical development of the definition of probability. Basic properties of probability as a function defined on sets. Conditional probability. Random variables and probability distributions. Mathematical expectation. Sums of random variables. Basic limit theorems. Special topics include Markov chains, Poisson processes and reliability theory.

Prerequisites: Mathematics 220 or 221, and 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: point estimation, 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 order differential equations; linear second and higher order differential equations including the use of the Laplace transform; systems of linear differential equations; the method of successive approximations; series solutions including Legendre polynomials and Bessel functions; Fourier series; partial differential equations.

Prerequisite: Mathematics 220 or 221 and 222 or 223, Mathematics 330 or 331 which may be taken concurrently. (3-0; 3-0)

349. (3) **Numerical Computation**

Analysis of truncation and roundoff errors. Error propagation. Approximations to functions. Roots of Equations. Numerical evaluation of integrals. Simultaneous linear

algebraic equations. Ordinary differential equations. In the laboratory the student will write programmes in FORTRAN IV using the IBM 360 - Model 44.

Prerequisites: Mathematics 220 or 221 and 222 or 223; Mathematics 330 or 331 which may be taken concurrently; a knowledge of FORTRAN programming.

(2-2; 2-2)

411. (3) **Introduction to Topology**

Basic concepts of point set topology; a choice of topics from elementary algebraic topology and general topology.

Prerequisites: Mathematics 333 or 332, and 335.

(3-0; 3-0)

433. (3) **Algebra III**

Algebraic structures. Primarily for Honours students.

Prerequisite: Mathematics 333.

(3-0; 3-0)

435. (3) **Real Analysis II**

Category and convergence; Lebesgue measure and integration; introduction to normed linear spaces. Primarily for Honours students.

Prerequisites: Mathematics 331 and 335 and the consent of the department.

(3-0; 3-0)

441. (3) **Complex Analysis**

Sets of points in the complex plane; analytic 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**

Development of probability and distribution theory. A discussion of statistical limit theorems. A study of problems in statistical inference with emphasis on the general decision problem, the properties of estimators, and the theory of tests of hypotheses. The development and application of parametric and distribution-free procedures.

Prerequisite: Mathematics 330 or 331, Mathematics 332 or 333 or the consent of the department.

(3-0; 3-0)

NOTE: Beginning in the academic year 1968-69, Mathematics 340 will be a prerequisite to Mathematics 443.

445. (3) **Theory of Ordinary Differential Equations**

Existence and uniqueness theorems; systems of ordinary differential equations and stability of their solutions; Greens functions; introduction to the calculus of variations.

Prerequisites: Mathematics 331 and 223; mathematics majors who have obtained a B grade or better in both Mathematics 330 and 222 may register with the consent of the Department.

(3-0; 3-0)

449. (3) **Numerical Analysis**

Error analysis; roots of equations; solution of systems of equations; matrix inversion; calculation of eigenvalues; difference and differential equations; approximation theory. Students will write programmes in FORTRAN IV using the IBM 360 - Model 44.

Prerequisites: Mathematics 330 or 331, Mathematics 222 or 223, and a working knowledge of FORTRAN programming.

(3-0; 3-0)

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.
- Pablo Cabañas, Licenciado (*Madrid*), Doctor en Filosofía y Letras (*Madrid*), Visiting Professor of Spanish.
- 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.C.S., Professor of French.
- 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. (Leave of absence 1967-68).
- Emile Martel, L. ès L. (*Laval*), Doctorado (*Salamanca*), Assistant Professor of Spanish.
- 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.
- Walter Riedel, B.Ed., M.A. (*Alta.*), Ph.D. (*McGill*), Assistant Professor of German.
- Mrs. Bérangère B. Steel, L. ès L. (*Paris*), Assistant Professor of French.
- Jean-Claude Vilquin, L. ès L. (*Capes*), Visiting Assistant Professor of French.
- Miss Elaine Wallace, B.A. (*London*), Docteur de l'Université de Poitiers, Assistant Professor of French.
- Barrington F. Beardsmore, B.A. (*Liverpool*), M.A. (*McMaster*), Instructor in French.
- Alan John Ford, B.A. (*London*), Instructor in Spanish.
- Miss Josefa Guerrero, B.A. (*London*), Instructor in Spanish.
- Zelimir Juricic, M.A. (*Brit. Col.*), Instructor in Russian.
- Alain Le Berre, L. ès L. (*Paris*), Instructor in French.
- Miss Helen J. McIntosh, B.A. (*Man.*), M.A. (*Queen's*), Instructor in French and German.
- Jerrold L. Mordaunt, M.A. (*Utah*), Instructor in Spanish.
- Christian H. Prohom, B.A. (*Alta.*), Instructor in French.
- Miss Micheline Sainte-Marie, B.A. (*Montreal*), Instructor in French.
- Charles Anthony Sheehy, M.A. (*Glasgow*), Instructor in Spanish. (Leave of absence 1967-68).
- Rodney T. K. Symington, B.A. (*Leeds*), Instructor in German.
- Neil V. J. Thompson, B.A. (*London*), Instructor in French.
- Miss Jeanne E. Bourguès, L. ès L. (*Toulouse*), Lecturer in French.
- Ronald R. Jeffels, C.D., B.A., B.Ed. (*Alta.*), M.A. (*Cantab.*), Lecturer in French.
- Mrs. Marie-Paule Vinay, docteur en psychologie, docteur en Sciences politiques, économiques et sociales (*Paris*), part-time Lecturer in French.

GENERAL, MAJOR AND HONOURS PROGRAMMES

NOTE: All students planning to take a concentration in a General Programme or Majors or Honours in the Department of Modern Languages must take English 200 and Linguistics 100.

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. In French, German, and Spanish, these include the course numbered 290.

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.

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 and 290; 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

General — First Year: Russian 100; Second Year: Russian 200; Third and Fourth Years: Russian 300, 302 and 400.

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.

Honours — Consult Head of the Department.

SPANISH

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.

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.

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.

COURSES OFFERED

Students from secondary schools with credit in French 12, 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 10) — Study of French texts, grammar, pronunciation, oral practice.

Text: *En France comme si vous y étiez* (Students' handbook). (2-2; 2-2)

150. (3) **First year University French offered by the Voix et Images de France method**

Prerequisite: secondary school French. (5-1; 5-1)

NOTE: In 1967, offered in Summer Session only, 25 hours per week.

180. (3) **French Language and Literature**

(Prerequisite: French 12) — Study of French texts, grammar, pronunciation.

Texts: *Contes modernes* (ed. H. Peyre); Molière, *Le Bourgeois gentilhomme*; Camus, *L'Étranger*; *Guide France* (Hachette); 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*; Anouilh, *Becket*; *La France actuelle* (Bauer); 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*; 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*; *Vocabulaire d'initiation à la critique et à l'explication littéraire* (Chilton Books); *Dictionnaire moderne, anglais-français français-anglais* par Marguerite-Marie Dubois (Hachette); and others to be announced.

(4-0; 4-0)

NOTE: French 290 by itself does not fulfil the 200 level language requirement for the B.A. degree.

302. (3) **Advanced Composition and Stylistics**

Texts: Whitmarch, *Cours supérieur*; Gide, *L'École des femmes*; Maurois, *Le Cercle de famille*; and others to be announced.

(2-2; 2-2)

350. (3) **An advanced course in French, with concentration on oral work, using**
Voix et Images de France (5-1; 5-1)
This course is designed to meet the needs of teachers-in-training and of secondary school teachers of French. Admission requires the consent of the Head of the French Division.
Credit may be given as part of a major in the Faculty of Education or as an elective. It can also be taken as an elective in the Faculty of Arts and Science.
NOTE: In 1967, offered in Summer Session only, 25 hours per week.
401. (3) **Literature of the Eighteenth Century**
(Not offered in 1967-68).
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*; *L'École des Femmes*; *Tartuffe*; *Le Misanthrope*. (3-0; 3-0)
411. (3) **Nineteenth Century Part I (Romanticism)**
Texts: Lagarde et Michard, *XIX Siècle*; Hugo, *Hernani* and *Ruy Blas* (ed. Bordas); Chateaubriand, *René*; Flaubert, *Madame Bovary*; Balzac, *Eugénie Grandet*; Stendhal, *Le Rouge et le noir*; and others to be announced. (3-0; 3-0)
412. (3) **Nineteenth Century Part II**
(Not offered 1967-68). (3-0; 3-0)
415. (3) **Modern French Theatre**
(Not offered 1967-68). (3-0; 3-0)
416. (3) **Modern French Novel**
Texts: Novels by Proust, Gide, Mauriac, Bernanos, Malraux, Saint-Exupéry, Sartre, Camus, Bazin, Robbe-Grillet, and others to be announced. (3-0; 3-0)
418. (3) **French-Canadian Literature**
Texts: Tougas, *Histoire de la littérature canadienne-française*; *Anthologie de la poésie canadienne-française* (Sylvestre); Gelinas, *Tit-Coq*; novels by Hémon, Ringuet, Savard, Roy, Thériault, Hébert, Godbout, etc. (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**
Principles of structural and historical linguistics applied to the description of the growth and structure of the French language.
Texts: von Wartburg, *Evolution et structure de la langue française*; Kuenen, *Esquisse historique de la linguistique française*. (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, 290 or 302*; or for a course numbered 400* or above dependent upon ability; those in Second Year will register for a course

numbered 400* or above. Students who have completed German 90, 91, or 92 of the secondary school curriculum will register for German 240 or 260/290.

* Credit cannot be granted for these courses taken in 1st and 2nd year in the Major and Honours programme.

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: Bluske and Walter, *Das erste Jahr* (with Laboratory Manual); MacLean, Hartmanshenn, Kriegel, *2000 Jahre deutsches Leben* (selected readings); Kriegel & 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 one or two years of German in secondary school, and for students whose standing in Beginners' German is unsatisfactory for admission to a higher course.)

Texts: Grammar text to be announced; von Hofe, *Die Mittelstufe*. (4-1; 4-1)

190. (1½) **German Reading Course**

Reading of journals, and general and scientific articles, designed to meet the needs of students entering graduate school or of those who want practice in reading comprehension. Each student will be assigned readings in his special field. Limited normally to students in 3rd or 4th year or in graduate studies. (Prerequisite: German 100 or 140.)

Texts: To be announced. (2-0; 2-0)

240. (3) **Intermediate German**

Literary reading, composition, conversational practice. (Normally intended as a terminal course in German).

Texts: Heller & Ehrlich, *German Fiction and Poetry*; MacLean, Hartmanshenn, Kriegel, *2000 Jahre deutsches Leben* (selected readings); 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: Brecht, *Mutter Courage*; Frisch, *Andorra*; Dürrenmatt, *Besuch der alten Dame*; Marla Rado, ed., *Begegnungen von A bis Z*; Lehmann, Rehder et al., *Review and Progress in German*; 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); Steinhauer, *Kulturlesebuch für Anfänger* (rev. ed.). (3-1; 3-1)

NOTE: German 290 by itself does not fulfil the 200-level language required for the B.A. degree.

302. (3) **Advanced Composition and Stylistics**

Intensive training in oral and written composition.

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**

(Not offered in 1967-68). (3-0; 3-0)

401. (3) **Twentieth-Century German Literature**

Texts: Lohner, E. and Hannum, H. G., *Modern German Drama*; Hauptmann, *Bahnwärter Thiel*; Kafka, *Verwandlung*; T. Mann, *Tonio Kröger*, *Tod in Venedig*; Bergengruen, *Feuerprobe*; Hesse, *Steppenwolf*; and others to be announced.

(3-0; 3-0)

404. (3) **The Romantic Movement**
 Texts: Stengel, *Deutsche Romantiker* Vols. I & II. (3-0; 3-0)
408. (3) **German Poetry from 1830 to the Present**
 Texts: Echtermeyer and von Wiese, *Deutsche Gedichte*. Supplementary reading from the *Penguin Book of German Verse* and *Twentieth-Century German Verse* (Penguin edition). (3-0; 3-0)
410. (3) **The Classical Period**
 Literature of the eighteenth and early nineteenth century with emphasis on the drama of Lessing, Schiller and Goethe.
 (Not offered in 1967-68). (3-0; 3-0)
412. (3) **Reformation and Baroque**
 (Not offered in 1967-68). (3-0; 3-0)
414. (3) **German Literature from Aufklärung to Sturm und Drang**
 Texts: Glaser, Lehmann and Lubos, *Wege der deutschen Literatur* (Ein Lesebuch). (3-0; 3-0)
417. (3) **The German Novelle**
 A study of the development of the German Short Story with special emphasis on nineteenth-century writers.
 (Not offered in 1967-68).
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)

ITALIAN

100. (3) **First Year Italian**
 Texts: To be announced. (4-1; 4-1)
200. (3) **Second Year Italian**
 (To be offered in 1968-69). (3-1; 3-1)
300. (3) **A cultural approach to Italian language and literature**
 This course is designed primarily for third and fourth year students majoring in Classics, English, Fine Arts, History, Modern Languages, etc.
 Prerequisites: Competence to the 200-level in a second language other than Italian.
 Texts: To be announced. (3-0; 3-0)

JAPANESE

100. (3) **A first course in Japanese**
 Texts: To be announced. (4-1; 4-1)
- NOTE: Students electing to take this course should note that in the foreseeable future, a 200-level course in Japanese will not be available.

RUSSIAN

100. (3) **Basic Russian**
 First introductory course in the Russian language.
 Text: Stilman and Harkins, *Introductory Russian Grammar*. (4-1; 4-1)

190. (1 ½) **Russian Reading**

This course is designed to meet the needs of students entering graduate school or of those who need practice in reading comprehension. Each student will be assigned readings in general and scientific articles within his field of specialization. Normally limited to Third-or Fourth-year students or Graduate students.

Prerequisite: Russian 100.

Text: To be announced. (2-0; 2-0)

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**

History of Russian literature from the eleventh century to the Soviet Period.

(Not offered in 1967-68). (3-0; 3-0)

400. (3) **History of the Russian Language**

Lectures on the cultural history of the Russian language, its linguistic evolution and its present structure. This course will be conducted in Russian.

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

*401. (3) **Russian Literature since 1917 (In translation)**

This course will begin with Maxim Gorky and will place major emphasis on the Symbolists, the Futurists, the Peasant Poets, and Socialist Realism.

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

*402. (3) **History of Russian Drama (In translation)**

A survey of the evolution of Russian drama from its beginnings to the present day, emphasizing the most important Russian dramatists (Sumarokov, Fon Vizin, Pushkin, Ostrovsky, Chekhov, and Gorky, etc.).

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

*403. (3) **Dostoevsky and Tolstoy (In translation)**

The major works of both authors will be studied against the background of their lives and times.

(Not offered in 1967-68). (3-0; 3-0)

*NOTE: Students taking one of these courses as part of a major in Russian must have Russian 200 as a prerequisite and must take a fourth lecture hour (in Russian).

430. (3) **Directed Reading Course**

(3-0; 3-0)

SPANISH

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

(For students who have not studied Spanish). Intensive oral method with grammar, composition, translation, and work in the language laboratory.

Text: The Modern Language Association, *Modern Spanish*, 2nd Edition. (3-2; 3-2)

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*; Zenia Sacks Da Silva, *Tape Manual for Beginning Spanish*; Kasten and Neale-Silva, *Lecturas escogidas*; Traven, *El tesoro de la Sierra Madre*. (4-1; 4-1)

240. (3) **Intermediate Spanish**

(Normally intended as a terminal course in Spanish). Intensive review of grammar; translation, composition, oral work. Emphasis second term on Spanish civilization.

Texts: Ugarte, *Gramática española de repaso*; Marín, *La civilización española*. (3-1; 3-1)

260. (3) **Introduction to the Literature of Spain and Spanish America**

(For students who intend to do major or honours work in Spanish). Must be taken in conjunction with Spanish 290. May be taken without Spanish 290 as an elective.

Study of modern authors, composition, and assigned themes.

Texts: Marín, *La civilización española*; V. Blasco Ibáñez, *La barraca*; Güiraldes, *Don Segundo Sombra*; García Lorca, *Yerma*; Blecua, *Floresta lírica española*, 2nd edition, Vol. 2 only. (4-0; 4-0)

290. (3) **Review Grammar and Conversation**

(For students who intend to do major or honours work in Spanish). Must be taken in conjunction with Spanish 260. May be taken without Spanish 260 as an elective.

Intensive review of grammar. Detailed study of the Spanish language.

Texts: Ugarte, *Gramática española de repaso*; Camba, *Países, gentes y cosas*; other texts to be announced. (3-1; 3-1)

NOTE: Spanish 290 by itself does not fulfil the 200-level language requirement for the B.A. degree.

302. (3) **Advanced Composition and Stylistics**

Intensive training in oral and written composition.

Texts: Tarr and Centeno, *A Graded Spanish Review Grammar with Composition*; Olstad and Barrow, *Creative Spanish*. (4-0; 4-0)

400. (3) **The Spanish Realist Novel of the Nineteenth Century**

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

401. (3) **The Generation of 1898**

A study of Spanish authors who sought a solution to the problems of Spain which followed the Spanish-American War.

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*.

Texts: Miguel de Cervantes, *Don Quijote de la Mancha*; and others to be announced. (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.

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

404. (3) **The Literature of Spanish America**

Texts: To be announced. (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.

(Not offered in 1967-68). (3-0; 3-0)

406. (3) **Medieval Literature**

Study of Spanish language and literature from 1140 to 1500.

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.

(Not offered in 1967-68). (3-0; 3-0)

430. (3) **Directed Reading Course**

(3-0; 3-0)

490. (3) **Honours Seminar, or Graduating Essay**

(3-0; 3-0)

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 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

NOTE: Philosophy 100, 202, 212, 222, and 302 are recommended for the general student as well as for those intending to major in philosophy. Any of these courses may be taken by all students in the Faculty of Arts and Science in the first and second years without special permission. Other courses in philosophy may be taken either by satisfying the stated prerequisites *or* with the permission of the Department.

100. (3) **Introduction to Philosophy**

A discussion of some fundamental problems of philosophy, such as "Is it possible to establish objective moral standards?", "Can an examination of the nature of men establish what is the good life?", "What sorts of political and social structures are moral?", and "To what extent, if at all, is knowledge possible?". The answers of such philosophers as Plato, Descartes, Hume, Kierkegaard, Russell and Sartre will be considered.

Staff.

(3-0; 3-0)

202. (3) **Elementary Logic**

Students will be placed in Section 1 or 2 in accordance with their backgrounds and interests. Section 1 is designed for students in the humanities, and Section 2 for students in mathematics and the sciences.

Section 1: Topics covered will include the theory of meaning and definition, and informal and formal fallacies. Symbolic logic will be developed primarily in order to assess arguments drawn from everyday discourse rather than to investigate mathematical and scientific theories.

Section 2: Topics covered will include propositional logic and Boolean algebra, predicate logic and set theory, and the axiomatic method. Symbolic systems of logic will be developed primarily for the manipulation of such standard mathematical systems as groups, rings, fields, simple order, and for analysis of the structure of scientific theory.

Mr. Graff, Mr. Martin.

(3-0; 3-0)

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.

(3-0; 3-0)

222. (3) **Introduction to Philosophy of Science**

An introductory analysis of the presuppositions, methods and some philosophical problems raised by science. Discussion of the patterns of scientific explanation, the nature of scientific method, and the logical character of scientific laws and theories.

Mr. Martin.

(3-0; 3-0)

300. (3) **Ancient Philosophy**

A study of the origins and development of philosophic thought in Ancient Greece. Particular emphasis on the metaphysics and theories of knowledge of Plato and Aristotle through detailed examination of some of their major works. Prerequisite: Philosophy 100, or permission of the Department.

Dr. De Lucca.

(3-0; 3-0)

302. (3) **Ethics**

An inquiry into the nature of morality and the function of moral philosophy. The major ethical systems of Western philosophy will be examined. Some of the basic questions discussed include: What is the nature of virtue? What is the connection between virtue and happiness? Is it possible to establish absolute, objective standards of morality? How can one rationally choose between competing moral codes?

Readings will be from such philosophers as Aristotle, Kant, Hume, Mill, Moore, and Prichard.

Mr. Michelsen.

(3-0; 3-0)

305. (3) **Medieval Philosophy**

Survey of the principal doctrines of Augustine, Boethius, Erigena, Anselm, Aquinas, Scotus, Ockham, and Eckhart. Prerequisite: Philosophy 300, or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

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, or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

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, or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

330. (3) **Modern Philosophy**

A study of Descartes, Spinoza, Leibniz, Locke, Berkeley, and Hume. Prerequisite: Philosophy 100, or permission of the Department.

(3-0; 3-0)

332. (3) **Eastern Philosophy**

A study of basic texts and major philosophical systems of Hinduism, Buddhism, Confucianism, and Taoism. Prerequisite: 6 units in philosophy or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

400. (3) **Kant**

Intensive study of *The Critique of Pure Reason* and other epistemological works. Prerequisites: Philosophy 300 and 330, or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

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, or permission of the Department.

(Not offered 1967-68).

(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, or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

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, or permission of the Department.

Mr. Graff.

(3-0; 3-0)

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, or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

420. (3) **Existentialism**

Selected readings from the works of leading existentialist thinkers: Kierkegaard, Jaspers, Heidegger, Sartre, Marcel, and Buber. Prerequisite: 9 units in philosophy, or permission of the Department.

Mr. Michelsen.

(3-0; 3-0)

422. (3) **Contemporary Philosophy**

Detailed examination and discussion of some recent philosophical writings, mainly of the last two decades. Prerequisite: 9 units in philosophy, or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

432. (3) **Metaphysics**

An analysis of fundamental metaphysical concepts, including substance, quality, relation, causality, space, time, and the self. Prerequisite: 9 units in philosophy, or permission of the Department.

(3-0; 3-0)

447. (3) **Seminar in Philosophy**

Topic(s) to be selected by the instructor. Prerequisites: 9 units in philosophy, or permission of the Department.

(Not offered 1967-68).

(3-0; 3-0)

448. (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.
- R. Michael Pearce, B.Sc. (*McGill*), M.A., Ph.D. (*Brit. Col.*), Professor.
- Walter M. Barss, M.A. (*Brit. Col.*), Ph.D. (*Purdue*), Associate Professor.
- John M. Dewey, B.Sc., Ph.D. (*London*), Associate Professor.
- Harry W. Dosso, B.A., M.Sc. (*Brit. Col.*), Associate Professor.
- Lyle P. Robertson, M.A., Ph.D. (*Brit. Col.*), Associate Professor.
- Gerhart B. Friedmann, B.Sc., M.A. (*Madras*), Ph.D. (*Brit. Col.*), Assistant Professor.
- D. E. Lobb, M.Sc., Ph.D. (*Sask.*), 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.
- Chi-Shiang Wu, B.S. (*Nat. Taiwan U.*), M.S., Ph.D. (*Western Reserve U.*), 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.
- Donald G. Ingham, B.Sc. (*U. of Vic.*), Laboratory Instructor.
- David E. A. Kenyon, B.Sc. (*U. of Vic.*), Laboratory Instructor.
- V. Ramaswamy, M.Sc. (*U. of Kerala*), 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	Major	Honours
Physics 101	Physics 101	Physics 101
Mathematics 130	Mathematics 130	Mathematics 130
		Chemistry 120 or 124 and 121

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 who wish to be eligible for further courses in Chemistry are advised to include the 1-unit laboratory course Chemistry 121 and to select Chemistry 124 instead of Chemistry 120, if they qualify for admission.

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 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 Physics 460, Undergraduate Seminar.

FOURTH YEAR

General	Major	Honours
Physics 413	Physics 411†	Physics 411† and 421†
	Physics 413	Physics 422†
	Physics electives	Physics 423†
		Physics 429
		Physics electives
		Mathematics 333

† 1½ units.

The Physics electives are to be chosen in consultation with the Department. In some instances, a course in a related field outside the Department may be accepted.

In the Major Programme, the Physics electives must comprise at least $4\frac{1}{2}$ units: either Physics 410† and two second-term courses chosen from Physics 425†, 426† and 427†, or Physics 321 and one of these second-term courses.

In the Honours Programme, the Physics electives comprise 6 units: normally any two second-term courses chosen from Physics 424†, 425†, 426†, and 427†, plus either Physics 410† and 420† or any one of Mathematics 441, 445 and 449.

Fourth-year Honours students are required to participate in Physics 460, Undergraduate Seminar.

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, 121, or 130 (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.

Texts: For Section 1, Richards, Sears, Wehr and Zemansky, *Modern University Physics*, Part I; For other Sections, Alonso and Finn, *Fundamental University Physics*, Volume I. (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).

Texts: 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), and consent of the Department.

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*)

410. (1 1/2) **Topics in Mathematical Physics I**

Applications of mathematical techniques to the solution of physical problems: vector and tensor calculus, elementary topics in functions of a complex variable, special functions of mathematical physics, and the calculus of variations. First term only. Prerequisite: Physics 211, Mathematics 330 or 331, and 345.

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

411. (1 1/2) **Thermodynamics**

The fundamental laws of thermodynamics, with applications. First term only. Prerequisites: Physics 211, Mathematics 330 or 331, and 345 (may be taken concurrently).

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

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 Scels, *Elementary Modern Physics*. (3-3; 3-3)

420. (1 1/2) **Topics in Mathematical Physics II**

Further applications of mathematical techniques to the solution of physical problems. Topics covered include generalized functions and their Fourier transforms, Green's functions and the solution of boundary-value problems. Second term only. Prerequisites: Physics 410, Mathematics 330 or 331, and 345, and consent of the Department.

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

421. (1 1/2) **Statistical Mechanics**

Boltzman, Bose-Einstein and Fermi-Dirac statistics. Second term only. Prerequisites: Physics 321 and 411, Mathematics 330 or 331, and 345, and consent of the Department.

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

422. (1 1/2) **Electromagnetic Theory**

Potential theory, Maxwell's equations, electromagnetic waves. First term only. Prerequisites: Physics 322, Mathematics 330 or 331, and 345, and consent of the Department.

Text: Corson and Lorrain, *Electromagnetic Fields and Waves*. (3-0; 0-0)

423. (1 1/2) **Introductory Quantum Mechanics**

Operator postulates, barrier penetration, harmonic oscillator, one-electron atom, angular momentum operators, spin, time-independent perturbation theory. First term only. Prerequisites: Physics 413, Mathematics 330 or 331, and 345, and consent of the Department.

Text: Eisberg, *Modern Physics*. (3-0; 0-0)

424. (1 1/2) **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. Second term only. Prerequisites: Physics 423, and consent of the Department.

Text: Eisberg, *Modern Physics*. (0-0; 3-0)

425. (1 1/2) **Electronics**

Electronic circuit theory with applications. Second term only. Prerequisites: Physics 322, Mathematics 330 or 331.

Text: To be announced. (0-0; 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. Second term only. Prerequisites: Physics 211, Mathematics 330 or 331, and 345 (may be taken concurrently).

Text: Li and Lan, *Principles of Fluid Mechanics*. (0-0; 3-0)

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. Second term only. 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)

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

Students must obtain the consent of the Department before registering.

* Laboratories scheduled on alternate weeks.

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**

517. (2) **Magnetism**

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. (Leave of absence 1967-68).
- Otfried Spreen, B.A. (*Bonn*), Dipl.-Psych., Ph.D. (*Freiburg*), Associate Professor.
- Gordon Neville Hobson, M.A., Ph.D. (*Alta.*), Assistant Professor, and Acting Head of Department, 1967-68.
- Richard B. May, B.A. (*Whitman*), M.A., Ph.D. (*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.
- R. Leslie D. Wright, M.A. (*Brit. Col.*), Ph.D. (*Tor.*), Assistant Professor.
- Jay Hewitt, B.A. (*Calif.-Santa Barbara*), M.A. (*Iowa*), Instructor.
- 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.
- 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.
- Gur S. Singh, M.B., B.S. (*Punjab*), F.R.C.S.(C).
- Kenneth R. Thornton, B.Sc., M.B., Ch.B. (*Leeds*)

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 corequisites 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. A *B* average for all work and a B+ average in Psychology are minimum requirements for these degrees.

Students, in special cases, may omit Psychology 100 and begin their programmes with Psychology 200. Any student with an A average or with First Class standing, who believes he can meet the demands of Psychology 200 with no previous formal training in Psychology, should consult the Instructor.

RECOMMENDED COURSE SEQUENCE FOR HONOURS

		B.A. Honours		B.Sc. Honours	
Year	Course	Units	Course	Units	
I.	Psychology 100	3	Psychology 100	3	
	English 100	3	English 100	3	
	Mathematics 130	3	Mathematics 130	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 222	3	Philosophy 222	3	
	Foreign Language	3	Mathematics 220 or 221	3	
	English 200 or 201	3	Zoology 202	3	
	Free Elective	3	Chemistry 102	3	
	Total	15	Total	15	
III.	Psychology 310	3	Psychology 310	3	
	Psychology or free		Zoology 303	3	
	Electives	12	Natural Science	3	
	*Required outside		Psychology or free		
	Elective	3	Electives	6	
	Total	18	*Required outside		
			Elective	3	
			Total	18	
IV.	Psychology 410	3	Psychology 410	3	
	Psychology 412 or 413	3	Psychology 412 or 413	3	
	Psychology 499 and		Psychology 499 and		
	Psychology or outside		Psychology or outside		
	Electives	9	Electives	9	
	*Required outside Elective	3	*Required outside Elective	3	
	Total	18	Total	18	

*Six units of outside electives are required in the Third and Fourth Year combined.

NOTE: It is possible that some course changes may be made after the publication of the Calendar. Students, *before* planning their courses, should request up-dated course descriptions from the Departmental Secretary.

COURSES OFFERED

Psychology 100 and 200 or 220 are prerequisite to all Third and Fourth Year courses, unless otherwise stated.

100. (3) **Introduction to Psychology**

An introduction to the basic principles and methods of some of the major areas of modern psychology. 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) **General Experimental Psychology**

A general introduction to the methodological and interpretive problems of experimental psychology. The areas of emotion, psychophysics, sensation, perception and learning will be among those examined. Prerequisite: Psychology 100 with a grade of at least B-, or permission of the instructor.

Dr. Tolman.

(3-0; 3-0)

220. (3) **Dynamics of Behaviour**

A study of empirical approaches to the understanding of human behaviour and some methods of its control. Prerequisite: Psychology 100 or permission of the instructor.

(3-0; 3-0)

NOTE: Admission to the following courses is by permission of the instructor.

310. (3) **Research Methods**

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. Research is conducted. N.B.: This course will not be open to students who have already taken Psychology 200 in this Department or an introductory course in statistics elsewhere.

Dr. Simmons.

(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.

(2-2; 2-2)

312. (3) **Physiological Psychology**

The study of the physiological basis of normal and disordered behaviour. Prerequisites: Psychology 200 and Zoology 202 or 303.

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.

(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 may be required.

Mr. Hewitt.

(3-0; 3-0)

332. (3) **Educational Psychology**

(Not offered 1967-68).

333. (3) **Human Factors**

Psychological methods and findings in the areas of production efficiency, engineering, accident control, selection and training, morale, market research, advertising, and other selected topics.

(Not offered 1967-68)

(3-0; 3-0)

334. (3) **Personnel Psychology**

Psychological theories and techniques applied to selection and management of personnel in business, industry, government and the military forces. Methods of interviewing, testing, counselling and executive development will be studied. (3-0; 3-0)

(Not offered 1967-68).

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.

(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. Students may be admitted at the discretion of the instructors and/or their Departments.

(Not offered 1967-68).

(3-0; 3-0)

388. (1) A review of the literature in an area chosen in consultation with a Faculty member. (0-2; 0-2)

399. (1) **Directed Research Project**

(0-2; 0-2)

410. (3) **Honours Seminar**

Theories and research problems in contemporary psychology. Prerequisites: Psychology 310 and Honours standing.

Staff.

(3-0; 3-0)

411. (3) **Perception**

The experimental study of visual and auditory perception. 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. Research is conducted and statistical analysis of data carried out. Prerequisite: Psychology 200.

Dr. May.

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.

(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)

415. (3) **Human Neuropsychology**

A scientific study of the brain-behaviour relationship in humans. Clinical cases of medically documented patients will be studied and psychometric techniques evaluated. Selected neurological clinical demonstrations at the Royal Jubilee Hospital may be arranged. Prerequisite: Psychology 312 or permission of the Department.

Dr. Spreen, Dr. Peet and Dr. Hamdi.

(3-0; 3-0)

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. (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.

(Not offered 1967-68).

(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 Biology 150.

Dr. Tolman.

(2-2; 2-2)

470. (Linguistics 470) (3) **Seminar in Psycholinguistics**

Discussion of recent research and conduction of experiments in specified areas of psycholinguistics, e.g. investigations of verbal parameters, grammatical transformations, language perception and language pathology. Prerequisite: Psychology/Linguistics 370 or consent of the instructor.

Dr. Vinay and Dr. Spreen.

(3-0; 3-0)

488. (1) A review of the literature in an area chosen in consultation with a Faculty member. Prerequisite: Psychology 388.

(0-2; 0-2)

499. (1 or 2 or 3) **Directed Research Project**

Prerequisite: Honours standing.

GRADUATE COURSES

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

503. (1-6) **Proctium 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 proctium 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.

505. (1) **Animal Learning** (First term only)

506. (1) **Human Learning** (Second term only).

507. (1) **Personality** (First term only).

508. (3) **Motivation** (Second term only).

509. (1) **History of Psychology** (First term only).

510. (1) **Theories of Psychology** (Second term only).

511. (1) **Comparative Psychology** (First term only).

512. (1) **Physiological Psychology** (Second term only).

513. (1) **Sensory Psychology** (First term only).

514. (1) **Perception** (Second term only).

515. (1) **Human Neuropsychology** (First term only).

516. (1) **Psychotherapy** (Second term only).

517. (1) **Quantitative Methods** (First term only).

518. (1) **Psychometric Methods** (Second term only).

- 519. (1) **Social Psychology** (First term only).
- 520. (1) **Developmental Psychology** (Second term only).
- 521. (1) **Human Factors** (First term only).
- 522. (1) **Personnel Psychology** (Second term only).
- 523. (1) **Abnormal Psychology** (First term only).
- 524. (1) **Diagnostic Testing** (Second term only).

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.A., 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.

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. (*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 I. Westermark, B.Ed. (*Alta.*), M.Ed., D.Ed. (*Oregon*), Associate Professor.

Mrs. Kathleen M. Christie, B.A. (*Brit. Col.*), Assistant Professor.

Leslie W. Crawford, M.S. (*E. Montana Coll.*), Assistant Professor.

Winston H. Eshleman, M.A. (*Stanford*), Assistant Professor.

Miss Jessie B. Fleming, B.A. (*Brit. Col.*), M.A. (*Wash.*), Assistant Professor.

Charles G. Galloway, B.A. (*Cent. Wash. State Coll.*), M.A. (*Harvard*), Ph.D. (*Calif.*), Assistant Professor.

Cary F. Goulson, M.A. (*Brit. Col.*), Ed.D. (*Tor.*), Assistant Professor.

John F. Hall, A.M. (*Stanford*), M.S. (*Oregon State*), Assistant Professor.

Mrs. Maureen C. Hibberson, B.P.E. (*Brit. Col.*), M.A. (*Oregon*), Assistant Professor.

Edgar B. Horne, B.A.Sc., M.A. (*Brit. Col.*), Ph.D. (*Illinois*), Assistant Professor.

Valdimar K. Johnson, B.A. (*Pacific Luth.*), M.A. (*Calif.*), Assistant Professor.

Donald W. Knowles, B.A., B.Ed., M.Ed. (*Alta.*), Assistant Professor.

Alan R. Morton, M.S. (*Oregon*), Assistant Professor.

Edward E. Owen, M.A. (*Auckland*), Assistant Professor. (Leave of absence 1967-68).

R. Vance Peavy, M.A. (*Colorado State Coll.*), D.Ed. (*Oregon*), Assistant Professor.

Roger A. Ruth, M.S. (*Emporia State*), Assistant Professor.

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.Ed. (*Brit. Col.*), M.A., Ph.D. (*Oregon*), Assistant Professor.

Joseph W. Thomson, B.A. (*New Jersey*), M.A. (*Illinois*), Assistant Professor.

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

William K. Cross, B.Ed. (*Brit. Col.*), Instructor.

John J. Sheppy, B.A., M.Ed. (*Brit. Col.*), Instructor.

Mrs. Marion Small, B.Ed. (*Brit. Col.*), M.Ed. (*West. Wash.*), Instructor.

Mrs. Ruthe R. Burg, M.S. (*Utah State*), Visiting Lecturer.

Mrs. R. Anne McLaughlin, B.Com. (*Brit. Col.*), Lecturer.

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 School of Fine Arts:

Howard B. Barnett, A.R.C.T., B.A., Mus. Bac. (*Tor.*), M.A., Ph.D. (*S. Calif.*),
Associate Professor.

From the University Library:

Dean W. Halliwell, M.A. (*Sask.*), B.L.S. (*Tor.*), Honorary member.

PROGRAMMES AND DEGREES OFFERED BY THE FACULTY OF EDUCATION

The Faculty of Education offers programmes leading to degrees in Education awarded by the University and to teaching certificates issued by the Provincial Department of Education. Two degrees are approved in the Faculty of Education: (a) a five-year Bachelor of Education, preparing both elementary and secondary teachers, and (b) a four-year Bachelor of Education (Elementary Programme), preparing elementary teachers only. The Master of Arts degree with specialization in Education is offered through the School of Graduate Studies; information about the degree may be found on pages 199 to 212 of this Calendar; inquiries concerning graduate study in Education should be directed to the Chairman of the School or to the Dean of Education.

TEACHER CERTIFICATION

Sole authority to issue teaching certificates rests with the Provincial Department of Education, Victoria, B.C.; a degree or a transcript of credit from the University is not a licence to teach. The records of candidates who successfully complete any of the teacher-education programmes described below are reported by the University to the Department of Education.

Five teaching certificates are issued, the type depending in general upon the number of years of preparation completed:

- Elementary Basic (EB) — full Second Year;
- Elementary Advanced (EA) — full Third Year;
- Professional C (PC) — full Fourth Year;
- Professional Basic (PB) — full Fifth Year;
- Professional Advanced (PA) — an acceptable Master's Degree.

The first certification is interim in nature and is valid normally for a period of four years. Only the Elementary Advanced or higher certificates can be made permanent; the requirements for permanent certification include the completion of two years of satisfactory teaching in the Province, recommendations from District Superintendents and approval by the Department of Education.

Teachers in elementary schools are expected to hold Elementary Basic or higher certification. They may complete the four- or the five-year degree programme outlined below before accepting a teaching position, or they may begin teaching after the "Professional Year" which may be taken any time after completing all requirements for the first year. Students who are admitted directly from Grade 13 or who transfer from other faculties and universities are given credit for those courses already completed provided they meet the requirements of the Education programme selected. (See Admission Requirements.)

Teachers in secondary schools are expected to hold Professional Basic or higher certification. Normally they will have completed five years of approved university study as outlined below. If for financial or other reasons students decide to transfer to the elementary programme and teach in the elementary schools prior to satisfying all requirements for the Professional Basic Certificate, they may qualify for a lower certificate by completing the elementary "Professional Year" as outlined on page 170. They may resume the secondary programme at a later date if they wish. Of course, some loss of course credits may be expected under these circumstances.

UNDERGRADUATE DEGREE REQUIREMENTS

Two programmes leading to the Bachelor's degrees are offered. The first requires five years (75 units of course work) following completion of Grade 12 on the Academic-Technical programme. This leads to the Bachelor of Education degree and to the Professional Basic certificate issued by the Department of Education; this certificate enables the holder to teach in either elementary or secondary schools.

The second programme requires four years (66 to 69 units of course work) after Grade 12 in either the Academic or the Technical programme. This course of study leads to the degree of Bachelor of Education (Elementary Programme) and to the Professional C Certificate expected of teachers in elementary schools. To qualify for Professional Basic certification the holder of this latter degree — Bachelor of Education (Elementary Programme) — must complete at least an additional 15 units of course work approved by the Dean of Education.

In both the four- and the five-year programmes, students may arrange their courses so that they can begin teaching in elementary schools on an interim basis after successfully completing at least two years of work, one of which must be the "Professional Year."

Provided they meet the admission requirements of the University and Faculty, students who have completed Grade 13 or one or more years in another faculty may transfer into Education, complete the "Professional Year" and then begin teaching with an EB certificate. In most cases, graduates of other faculties may enrol in the Faculty of Education. During the "Professional Year" they are able to complete the requirements for Professional Basic certification. To ascertain eligibility for transfer, graduates may consult the Dean of Education.

ADMISSION REQUIREMENTS

Applicants for admission to the Faculty must meet the general requirements outlined on pages 31 to 34. The University reserves the right, however, to reject applications to this Faculty on the grounds of physical or health disabilities, or for other reasons, including unsatisfactory academic records. Normally, persons who have failed the last year attempted in another faculty or university are not admissible.

Admission to the Faculty of Education may also be denied to those who are unable to demonstrate good use of English. Applicants whose native tongue is not English may be required to pass oral and written tests in English before being admitted.

Students who have completed a full First Year in Arts and Science or its equivalent will be admitted to the Second Year of a degree programme in Education. Also, students with good records who have completed 12 units of acceptable credit through Grade 13 or First Year University may be admitted. However, those offering Grade 13 through the Department of Education examinations must have obtained at least 9 of the 12 units at one sitting.

Students who transfer to the Faculty of Education from another faculty or university will receive credit for courses already completed provided they meet the requirements of their programme in Education. Also, students transferring to the degree programme in the secondary field from that in the elementary field, or from one teaching area to another within a programme, will be given credit for appropriate courses already completed. Applications from students who have failed the previous year's work will not be approved.

Students from other universities must submit an official transcript of their records for evaluation by the Registrar. *Once a student is registered in the Faculty, credit will not be given for work undertaken elsewhere unless prior permission has been obtained from the Dean.* To qualify for a B.Ed. degree, candidates normally must complete the final year of the four-year programme or the final two years of the five-year programme at the University of Victoria.

The following regulations apply to those intending to enter the Secondary Programme for Graduates:

- (a) Candidates will be admitted if they hold a degree from a recognized university and have completed the equivalent of at least 9 units of Third and Fourth Year work in two of the following subjects: art, biology (botany or zoology), English,

French, geography, history, Latin, mathematics, music, physical education, physics, theatre, and have obtained an average of B- (or 65%) in the senior courses which constitute each of these teaching subjects;

- (b) Candidates who have completed an Honours or a Master's degree in one of the above subjects are also admissible.

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., should apply in writing to the Registrar, requesting that their cases be reviewed by the Committee on Admissions. Applications of this type should be received by the Registrar as early as possible and certainly before August 15 of the year in which they wish to enrol.

INQUIRIES CONCERNING ADMISSION

Students enrolling in the Faculty of Education for the first time should read the general statement on Academic Affairs on pages 30 to 40 of this Calendar. Note that a completed application form and official transcripts must be submitted to the Registrar by August 15. In addition, if the applicant holds a B.C. Teacher's Certificate, he must submit a statement of "transfer of credits" which may be obtained from the Registrar of the Provincial Department of Education, Victoria, B.C. In all cases, students should state the particular course or programme in Education desired and the teaching areas or specialties they wish to complete.

N.B.: Students will not be allowed to register or transfer after the fifth day of instruction.

For information concerning fees and general expenses, see pages 40 to 43 of this Calendar. Students in Education who will be undertaking Education 297, 797, 398, or 798 (Student Teaching) should allow an additional \$50 to \$100 for travel to local schools. Where a post-session practicum is required, students are reminded that their year is not completed until the middle of May. Only those students resident in the Victoria area may normally expect to take their post-session practicum in District 62 or 63.

For information about financial assistance see pages 221 to 258 of this Calendar. Work in the Library and Cafeteria may be available for students in good standing who require financial assistance. Applications should be made to the Student Placement Officer.

Students wishing advice about any of the courses or programmes offered in the Faculty of Education should arrange an interview with a member of the Faculty through the office of the Dean of Education or write to the Dean of Education for information.

SUMMER SESSIONS AND OTHER CREDITS

Under certain circumstances credit will be granted for work taken in other institutions, at Summer Session, or by Evening Division. The following special regulations apply:

1. The maximum credit for summer session work in any one calendar year is six units.
2. Students who plan to undertake work at other universities in the same year during which work has been attempted at the University of Victoria must receive prior approval from the Dean of Education, or from the Registrar, if they wish such courses to be credited towards a degree at 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 the Faculty.
3. Students in attendance at the University may not register for extra-mural or correspondence work to be taken concurrently.
4. Candidates for degrees are advised to attend the University of Victoria for at least one winter session, preferably that of the Final Year.

PHYSICAL EDUCATION

1. Students planning to enter Physical Education 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. Enrolment in First Year is limited to 50 students.
2. Students are 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 secondary school chemistry.
4. Regulation uniforms, obtainable at the University Bookstore, are required by students specializing in physical education.
5. 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 each part of the work.
6. Students are required to earn a First Aid Certificate by the end of the Third of the programme.

DEGREE PROGRAMMES

The Senate of the University has authorized a five-year programme leading to the degree of Bachelor of Education for students intending to teach in either the elementary or the secondary schools of the Province. In addition, the four-year Bachelor of Education (Elementary Programme) is being retained for the present. Students who registered in the Faculty of Education before the introduction of the new programmes may choose to continue the old or change to the new, whichever is in their best interest. Students electing to continue on the four-year programme will be enabled to complete the Majors they had originally selected. Since course numbers have been changed, such students should seek advice about the courses which will fulfill the requirements for their Majors. Students registering in First Year in the Faculty or transferring into later years may enrol for either degree but are advised to undertake the new programmes.

NOTE: Honours programmes may be taken in the Bachelor of Education degree in most teaching subjects. Students wishing to undertake such programmes should consult the Dean and the Head of the Department concerned.

I. THE-FIVE-YEAR BACHELOR OF EDUCATION DEGREE

A. PREPARATION OF ELEMENTARY TEACHERS

1. The Regular Five-Year Bachelor of Education Programme for Elementary Teachers

This is the recommended programme for the preparation of elementary school teachers. Every student for this degree is required to complete 75 units in Education and Core Courses, and in either two teaching areas, or one teaching area and a special education area, or a remedial specialty.

This programme for elementary teachers ordinarily requires five calendar years to complete. Permission to accelerate may be granted by the Dean of Education at the end of the Second Year. Normally, the "Professional Year" is taken as a unit.

The degree and the teaching certificate require satisfactory performance in student teaching and successful completion of the programme outlined below:

Education, including Student Teaching	24 units
Core Courses	21 units
Teaching Areas, Professional Specialties, Electives	30 units
TOTAL	<u>75 units</u>

a. **Course Requirements**

All students complete the courses listed below in columns A and B and those in either C or D.

A	B	C	D
Education	Core	Teaching Areas	Teaching Area and Professional Specialty or Remedial Specialty
Education 200	English 100 and one of 200, 201, 203, 300, 301	2 Teaching Areas Electives	1 Teaching Area (9-15) and 1 Special Education Electives (9) (12-6)
Education 305	History 101 or 102		
Education 340 or 342	Geography 101 or 303		
Education 420 or 423 or 427	Mathematics 130 or 160		
Education 301 and 401	*Intermediate option: Biology or Physics		
Curriculum and Instruction, 700 Series	Primary option: General Science (Education 245)		Remedial Specialty (30)
Education 797,	Art Education 100 or Music Education 105 or Physical Education 149		
Student Teaching			
		21	30
		24	30

* In order to meet the degree requirement for the Intermediate Option the student must offer secondary school or University laboratory courses in at least two of Biological Science, Chemistry, or Physics (Physics 101 or 103); or, with permission Education 345.

b. Programme by Years

Years One and Two

English 100 and one of 200, 201, 203, 300, 301	(6)
History 101 or 102 (102 recommended)	(3)
Geography 101 or 303 (303 recommended)	(3)
Mathematics 130 or 160 (130 is required of those who select Mathematics as a teaching area)	(3)
A first-year course in Biology or Physics for the Intermediate Option; one in General Science (Education 245) for the Primary Option	(3)
One in Art Education 100, Music Education 105, Physical Education 149	(3)
Education 200	(3)
Two courses in teaching areas, professional specialties, or remedial specialty or electives	(6)
Education 197 and 297	(0)
	<hr/> 30

Year Three (Professional Year)

Primary Option		Intermediate Option	
<i>*Two of</i> Education 701, 705, 747	(2)	<i>*One of</i> Education 701, 705, 747	(1)
Education 742	(2)	Education 742	(2)
Education 744	(1)	Education 744	(1)
Education 746	(1)	Education 745	(1)
Education 797 (Student Teaching)	(3)	Education 746	(1)
Education 305	(3)	Education 797 (Student Teaching)	(3)
Education 301 and 401	(3)	Education 305	(3)
	<hr/> 15	Education 301 and 401	(3)
			<hr/> 15

* Students must not elect Education 701 if they have credit in Art Education 100; nor Education 705 if they have credit in Music Education 105; nor Education 747 if they have credit in Physical Education 149.

Years Four and Five

Education 340 or 342	(3)
One of Education 420, 423, 427	(3)
Teaching areas, professional specialty, remedial specialty, electives	(24)
	<hr/> 30

NOTE: It is planned that the majority of students will enrol for the "Professional Year" in their Third Year. However, it is also intended, for the immediate future, that they may complete this preparation during their Second Year. There should be no problem for students wishing to do the "Professional Year" as the Fourth Year.

During Years One and Two and the "Professional Year," seminars and professional experiences or student teaching will be required. The granting of the degree is dependent upon successful completion of these requirements.

c. Teaching Areas

Art: Art 100 or 120, Art Education 300, 301, 400; Art elective in Fine Arts. Students electing this area should include Art Education 100 as one of the Core Courses.

Language Arts: English 301; one of Linguistics 100, 210, 390; Education 342; Education 415; Education 343 or Education 442 (Prerequisite: Education 415); and either Theatre 280 or 380, or Library Education 430 and 431.

Mathematics: At least nine units of mathematics in addition to Mathematics 130 are required. The following courses are listed in order of preference: Mathematics 232, 339, *337, 230 and 332. With prior permission from the Dean of Education, a mathematics course not listed above may be included in this programme. Students are reminded that certain science courses have specific mathematics courses as prerequisites.

* Prerequisite: Mathematics 230 or permission of the Department of Mathematics.

Mathematics/Science: Mathematics 130 and a first-year laboratory science included among the Core Courses. Fifteen additional units are required:

- i. Mathematics 232 or 230.
- ii. A sequence of at least two courses (six units) in a given subject.
- iii. Six units elected from mathematics or the sciences. (For the preferred sequence of mathematics courses, see the Mathematics Teaching Area above.) Within the teaching area and the core must be included at least one 3-unit course from chemistry, physics or astronomy and at least one 3-unit course from bacteriology, biology, botany or zoology.

Science electives may include Education 445; Geography 203 or 302; Geology 200; or Physical Education 241. Students are reminded that certain science courses have specific mathematics courses as prerequisites.

Music: Music 100, 110, 130 and 360; two of Music 150, 151, 152 or 153; Music 140 or 240; Music Education 305. Students electing a Music Teaching Area should include Music Education 105 in the Core Course.

Physical Education: Physical Education 140, 141, 240, 241, 340, 341, 342, 440, 441, 442, 443, 444.

NOTE: Physical Education 440 is possible only in the Five-Year Programme.

Science: Fifteen units in addition to the laboratory science in the Core Courses are required.

- i. Education 445 and at least one 3-unit course from Astronomy, Chemistry or Physics and at least one 3-unit course from Bacteriology, Biology, Botany, or Zoology.
- ii. A sequence of at least two courses (six units) in a given subject.
- iii. Additional courses selected from any of the following to bring the total to 15 units: Astronomy; Bacteriology; Biology; Botany; Chemistry; Geography 203 or 302; Geology; Physical Education 241; Physics; Zoology.

Social Studies: History 102 (or 101); Geography 303 (or 101); two senior geography courses or two senior history courses; Anthropology 100 or 200 or, with permission, 339.

NOTE: With the approval of the Dean of Education, students may elect in lieu of one of the above areas a general programme in one subject area as prescribed by the Faculty of Arts and Science or the School of Fine Arts.

d. Professional Specialties

Remedial Specialty for Elementary Schools: Sociology 200 and 301; nine units of psychology selected in consultation with the Faculty of Education and Department of Psychology; and Education 402; 403; 407; 413; 414; 415; 416 or 442; and 417.

Teachers of Special Classes: Education 407; 402 or 415; 416 or 442; one of 408, 409, 410, 411; and any other two of the courses listed.

2. Transfer Programmes

a. Grade 13 or First-Year University Transfers

Year Two

One of English 200, 201, 203, 300, 301	(3)
One of Art Education 100, Music Education 105, Physical Education 149	(3)
Mathematics 160 or 130 (or elective if Mathematics 120 has been completed)	(3)
Education 200	(3)
*One course in the teaching area or the professional specialty or an elective	(3)
Education 297	(0)

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* Any deficiency in the Core Course normally taken in the first two years must be corrected. This may be done by using an elective to make up the deficiency; in some instances, students may need work beyond the degree requirement of 75 units.

Year Three (Professional Year)

Primary Option		Intermediate Option	
**Two of Education 701, 705, 747	(2)	**One of Education 701, 705, 747	(1)
Education 742	(2)	Education 742	(2)
Education 744	(1)	Education 744	(1)
Education 746	(1)	Education 745	(1)
Education 797	(1)	Education 746	(1)
(Student Teaching)	(3)	Education 797	(1)
Education 305	(3)	(Student Teaching)	(3)
Education 301 and 401	(3)	Education 305	(3)
		Education 301 and 401	(3)
	15		15

**Students must not elect Education 701 if they have credit in Art Education 100; nor Education 705 if they have credit in Music Education 105; nor Education 747 if they have credit in Physical Education 149.

Years Four and Five

Education 340 or 342	(3)
One of Education 420, 423, 427	(3)
Teaching areas or Professional Specialty and electives	(24)

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NOTE: Students in this Transfer Programme wishing to take their "Professional Year" in Year Two will take Education 200 in place of Education 305 and should seek guidance and approval from the Dean of Education.

b. Graduate Transfers

Graduates from other faculties or universities who have an acceptable bachelor's degree and who are interested in elementary school teaching may be admitted to this programme. Successful completion of the following programme leads to the interim Professional Basic Certificate.

Education 200	(3)
Education 301 and 401	(3)
Two of Education 701, 705, 747	(2)
Education 742	(2)
Education 745	(1)
Education 746	(1)
Education 797	(3)
Mathematics 203	(3)

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Students in this "Professional Year" should note that to receive any credits they must receive passing grades in Education 797.

c. Senior Transfers

Students who are not graduates but have standing beyond the first year may enrol for a "Professional Year" similar to the above with the approval of the Dean of Education. Any deficiency in Core Courses may have to be corrected before the student is admitted to this "Professional Year."

B. PREPARATION OF SECONDARY TEACHERS

1. The Regular Five-Year Bachelor of Education Programme for Secondary Teachers.

This programme is designed for the preparation of secondary teachers. It consists of a minimum of 75 units and requires specialization in two subjects normally taught in secondary schools. In each of these, including prerequisite courses, students must complete no fewer than 15 and not more than 24 units. For graduation, an average of at least C+ must be attained in the senior courses of each subject.

In this programme a maximum of 24 units in education is permitted and Education 750 and 798 must be taken in the Fifth Year. The programme ordinarily requires attendance at five winter sessions. Permission to accelerate may be granted by the Dean after the Second Year if the student has achieved at least a B- average in the work of the first two years. Normally the "Professional Year" is taken as a unit.

The granting of the Bachelor of Education degree or of a teaching certificate is dependent upon satisfactory performance in student teaching.

a. Course Requirements:

Education, including student teaching	21 units
Academic courses, chosen from two teaching areas (including prerequisites and corequisites)	45-42 units
Electives	9-12 units
Total	75 units

b. Requirements by Years:

Year One		Year Two		Year Three	
Education 198	(0)	Education 298	(0)	Education 398	(0)
English 100	(3)	Arts and Science,		Education 301/303	(3)
Prerequisites	(6)	Fine Arts	(3-6)	Arts and Science,	
Corequisites	(0-6)	Prerequisites	(6-3)	Fine Arts	(9-12)
Electives	(6-0)	Corequisites	(6-0)	Electives	(3-0)
		Electives	(0-6)		
	<hr/>		<hr/>		<hr/>
	15		15		15
Year Four			Year Five		
Education 498	(0)	Education 798	(3)		
Education 406	(3)	Education 420, 423,			
Arts and Science,		or 427	(3)		
Fine Arts	(12-9)	Education 750			
Electives	(0-3)	(two areas)	(3)		
		Education 430	(1½)		
		Education 401	(1½)		
		Education Elective	(3)		
	<hr/>		<hr/>		<hr/>
	15		15		

NOTE: All students and particularly those planning to proceed to a Master's degree in Education are advised to seek guidance from the Dean of Education concerning choice of electives.

During each of the five years of the Bachelor of Education programme for secondary teachers a seminar and professional experience or student teaching will be required. The granting of the degree is dependent upon successful completion of these requirements.

Your attention is drawn to the following programme:

Year Four (Session 1967-68 only)

Education 498	(0)
Education 305	(3)
English 300 or 400	(3)
Teaching area	(9 or 12)
	<hr/>
	15 or 18

c. Teaching Areas and Required Courses

Normally, in addition to 21 units of course work in Education and 9 units of 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.

Only with the prior permission of the Dean of Education may exceptions be permitted to any of the following subjects 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.

Art:

First and Second Years: English 100; and 200 or 201 or 203; Art 100 or 120; 109 and 125 and one of Art 201, 205, 303, 307.

Senior Years: Art 360 and up to nine additional units selected as follows: three to six units from *one* of the following pairs — Art 305 and 405; 407 and 417; 403 and 413; 301 and 401; a further three units from another of these pairs.

Biological Sciences:

First and Second Years: English 100, Biology 150, Chemistry 121, and 120 or 124; Mathematics 130; Physics 101 or 103.

Senior Years: Biology 300/301; Botany 331 or Zoology 305; two of Zoology 202, 301 or Botany 205; up to six additional units may be taken from the biological science courses listed above or from senior courses for which prerequisites are held.

Chemistry:

First and Second Years: Chemistry 121, and 120 or 124; 224; 233; English 100; Mathematics 130, 220 or 221; Physics 101, 212.

Senior Years: Chemistry 344 and 326 or 331/334. If 18 units of Chemistry are elected, then Chemistry 326, 331, and 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, 423, 424, 436, 430 or 431, 429 or 438 may be taken.

Students electing to take 21 or 24 units of English will be permitted to take English 203 in second year; in this case, no other course in American Literature may be chosen.

French:

First and Second Years: English 100, 200; French 180, 280, 290.

Senior Years: French 302 and three to twelve units numbered 400 or above. French 350 may be taken in place of a course numbered 400 or above in a 21- or 24-unit sequence.

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, 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. In an 18- to 24-unit teaching area it is recommended that students substitute History 102 for an upper division Geography course.

German:

First and Second Years: English 100, 200; German 100 or 140, 260, 290.

Senior Years: German 302 and three to twelve units of courses numbered 400 or higher.

Guidance:

First and Second Years: Economics 100; English 100; Psychology 100 or equivalent and 220; Sociology 200.

Senior Years: Education 417; one upper division Psychology course; and one upper division Sociology course. A further three units of upper division Psychology or Sociology may be taken. These unspecified courses are to be selected in consultation with the Faculty of Education.

History:

First and Second Years: English 100 and 200 or 201; History 101 or 200, 102, 201.

Senior Years: History 304, 311 or 411. Up to nine additional units of senior courses may be taken. In an 18- to 24-unit teaching area, it is recommended that students substitute Geography 303 for an upper division History course.

Industrial Education:

First Year: Chemistry 121 and either 120 or 124, English 100, Mathematics 130, Physics 101 or 103, and academic elective or prerequisite.

Second and Third Years: Education 750 (I.E.) and 798; twenty-seven to thirty-three units of Industrial education as prescribed by the Dean of Education in consultation with the Director of Industrial Education. (These industrial education courses are offered only at the British Columbia Vocational School, Burnaby.)

Fourth and Fifth Years: Education 303 and 401, or alternative; 301; 406; 420 or 423 or 427; 430; 750 (in a second teaching area); 798; an education elective, and twelve further units in English, Mathematics, History, Geography, Physical Education or other teaching subjects for which prerequisites have been taken.

Students specializing in Industrial Education may complete the Fourth and Fifth Years by summer and/or winter sessions. Those planning summer session work should complete Education 301 and 303 or alternative and an academic prerequisite by summer session at the University of Victoria prior to undertaking the courses for the Second and Third Years at Burnaby.

Transfer students for the degree of Bachelor of Education with specialization in Industrial Education may complete only 24 units of work at the University of Victoria rather than the 30 units required by Senate. Such students are to include 12 units in an academic subject and 12 units in Education.

Latin:

First and Second Years: English 100, 200; six units of junior Latin courses in sequence including Latin 240; Classical Studies 200 or Greek 100.

Senior Years: Nine to twelve units of senior Latin courses. An additional three to six units of Classical Studies or Greek may be taken.

Mathematics:

First and Second Years: English 100; Mathematics 130, 220, 221.

Senior Years: Mathematics 332, 337. Up to nine additional units of senior courses may be taken; students are urged to seek advice in the selecting of these courses.

Music:

First and Second Years: English 100 and 200 or 201 or 203. Music 100, 110 and 130; two of Music 150, 151, 152, 153; Music 140 or 240 (preferably piano for the student electing the choral option).

Senior Years: Students will elect *either* the choral or the instrumental option.

- (i) *Choral Option*: Music 360 and 460. Up to nine additional units may be chosen from senior music history courses and from Music 200, 205, 240, 300, 340, 356, 400, 440.
- (ii) *Instrumental Option*: Music 330, 331 and 332. Up to nine additional units may be chosen from senior music history electives and from Music 200, 205, 240, 300, 335, 340, 345, 400, 440.

Physical Education:

First and Second Years: Biology 150; English 100; Physical Education 140, 141, 240, 241.

Senior Years: Physical Education 340, 341, 342, 440, 441, 442, 443, 444.

Physics:

First and Second Years: English 100; Mathematics 130, 220 or 221; Physics 101, 211, 212.

Senior Years: Mathematics 330 or 331; Physics 312, 322, or 413. Up to six additional units of Physics may be taken; students are urged to seek advice in selecting such courses.

Social Studies (24 units only):

Students who select geography and history sequences are reminded that they will be able to teach only one secondary school subject, viz., 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.

Senior Years: Six units selected from the following courses: Geography 301, 302, one of 441, 442, 443; History 304, 311, 411.

Theatre:

First and Second Years: English 100 and 200 or 201 or 203; Theatre 120, 140 and 170.

Senior Years: Theatre 280 or 330; one of Theatre 310, 311, 312; and up to nine additional units selected as follows: One of Theatre 220, 230, 240, and three to six units of other theatre courses for which a prerequisite has been completed.

Other Teaching Areas:

Students may also specialize in Russian or Spanish. 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.

2. Transfer Programmes

a. Holders of Elementary Teaching Certificates

Students who have completed two or three years of university work and who hold either Elementary Basic or Elementary Advanced teaching certificates may transfer to the secondary programme and complete the degrees and requirements for teaching in the secondary schools. Credit will be given for courses already completed provided they meet the requirements for the programme chosen. The following specific conditions will apply:

- (i) Students in the Third Year, Regular Session, must enrol for Education 398, and students in the Fourth Year, Regular Session, must enrol for Education 498.
- (ii) Students must enrol for Education 750 in two teaching areas, and when either or both are taken in Regular Session of the Fifth Year, students will be required to do a limited amount of student teaching.
- (iii) Students will be required to complete 76½ to 82½ units, depending on the teaching areas selected, to complete the requirements for the Bachelor of Education degree.
- (iv) Students must complete full Third Year standing in an approved university programme in order to qualify for the Elementary Advanced certificate; they must complete full Fourth Year standing in an approved university programme for Professional C certification; and they must complete full Fifth Year standing (16½ additional units) in an approved university programme and must receive the degree for Professional Basic certification. The requirement of a C+ average in a senior course of each of the teaching areas will apply. Should a student be required to complete one extra course, 3 units, for a total of 79½ units, this extra course will be considered as part of the Fourth Year and will be required for Professional C certification. In case a student must complete two extra courses, 6 units, for a total of 82½ units, the Third and Fourth Years must each contain six courses, 18 units, for Elementary Advanced and for Professional C certification respectively.

Requirements by Years:

Year Three		Year Four		Year Five	
Education 398	(0)	Education 498	(0)	Education 798	(0)
Arts, Fine Arts,		Education 406	(3)	Education 420, 423,	
Physical Educa-		Arts, Fine Arts,		or 427	(3)
tion, Science	(15)	Physical Educa-		Education 750	
Additional Course		tion, Science	(12)	(two areas)	(3)
(if required)	(3)	Additional Course		Education 401	(1½)
		(if required)	(3)	Arts, Fine Arts,	
				Physical Educa-	
				tion, Science	(9)
	15-18		15-18		16½

b. Graduate Transfers

Graduates from other faculties or universities who have the acceptable undergraduate majors listed on pages 156 and 157 may undertake the following programme of 18 units for Professional Basic certification.

An academic course may not be taken during the "Professional Year."

Fifth Year Requirements:

Education 798 (Observation and Student Teaching)	(3)
Education 301/303	(3)
Education 406	(3)
Education 420, 423, or 427	(3)
Education 401	(1½)
Education 430	(1½)
Education 750	(3)

18

c. Graduate Interns

A Teaching Internship Programme for the preparation of secondary teachers will be offered on a continuing basis provided that a minimum of twenty acceptable applications are received. This programme is designed for and open only to graduates from other faculties or universities who are twenty-eight years of age or older and who have achieved an average of 65% in the upper division courses of their undergraduate majors. These majors must have been completed in subjects normally taught in the secondary schools.

Instruction will begin in May and June each year in schools in the Victoria area. Following a further two months of preparation at the University in July and August, successful candidates will be employed as full-time, paid intern teachers and will be supervised by University instructors. Upon successful completion of a further summer session of work at the University candidates will be granted Professional Basic certification by the Department of Education.

Prospective candidates may write to the Registrar for further information and application forms.

II. THE FOUR-YEAR BACHELOR OF EDUCATION (ELEMENTARY PROGRAMME) DEGREE

1. Regular Programme

This is an alternative programme designed for the preparation of elementary school teachers. This degree qualifies the holder for the Professional C Certificate.

Teaching certificates, awarded by the Department of Education to successful candidates, follow the pattern outlined on page 155. The granting of the Bachelor of Education degree or of a teaching certificate is dependent upon successful completion of the "Professional Year."

a. Unit Requirements

Education, including Student Teaching	21 units
Required courses	24 units
Teaching Area,* electives	21 units

66 units

*In this degree programme, students will complete only one of the teaching areas. In the process of meeting requirements for P.C. certification, students may be able to complete a second area.

Year Two (Professional Year)

**Two of Education 701, 705, 747	(2)
Education 742	(2)
Education 745	(1)
Education 746	(1)
Education 797 (Student Teaching)	(3)
Mathematics 203	(3)
Education 200	(3)
	15

Year Three

Education 305	(3)
English 200 or 201 or 203	(3)
Geography 303	(3)
Teaching area or approved electives or a combination of both	(9)
	18

Year Four

Education 420 or 423 or 427	(3)
Education 345 (except for Art, and Music majors)	(3)
English 300 or 400	(3)
Teaching area or approved electives or a combination of both	(9)
	18

**Students must not elect Education 701 if they have credit in Art Education 100; nor Education 705 if they have credit in Music Education 105; nor Education 747 if they have credit in Physical Education 149.

b. Course Requirements

Education Courses	Core Courses	Teaching Area
Education 200 (3)	English 100; 300 or 400; and one of 200, 201, 203 (9)	Teaching Area (9-15) Electives (12- 6)
Education 305 (3)	History 102 or 101 (3)	
Education 345 (3)	Geography 303 (3)	
One of Education 420, 423, 427 (3)	Art Education 100 or Music Education 105 or Physical Education 149 (3)	
Curriculum and Instruction (700 series) (6)	First Year Laboratory Science (3)	
Student Teaching: Education 797 (3)	Mathematics 203 (3)	
Education 197 (0)		
21	24	21

c. Programme by Years

Year One

English 100	(3)
History 101 or 102	(3)
Any First Year Laboratory Science such as Astronomy 120*, Biology 150, Chemistry 121, and 120 or 124, Geography 101, Physics 101* or 103	(3-4)
One of Art Education 100, Music Education 105, Physical Education 149	(3)
Prerequisite to Teaching Area	(3)
Education 197	(0)
	15-16

*Students who take Astronomy 120 or Physics 101 must take Mathematics 130 concurrently.

2. Transfer Programmes

a. Grade 13 or First-Year University Transfers

This programme consists of 66 or 69 units of approved work.

Year Two (Professional Year)

One of Art Education 100, Music Education 105, Physical Education 149	(3)
*Two of Education 701, 705, 747	(2)
Education 742	(2)
Education 745	(1)
Education 746	(1)
Education 797 (Student Teaching)	(3)
Mathematics 203	(3)
Education 200	(3)

18

Year Three

Education 305	(3)
English 200 or 201 or 203	(3)
Geography 303	(3)
Teaching area or approved electives or a combination of both	(9)

18

Year Four

Education 420 or 423 or 427	(3)
Education 345 (except for Art and Music majors)	(3)
English 300 or 400	(3)
Teaching area or approved electives or a combination of both	(9)

18

*Students must not elect Education 701 if they have credit in Art Education 100; nor Education 705 if they have credit in Music Education 105; nor Education 747 if they have credit in Physical Education 149.

NOTE: Any deficiency in Core Courses normally taken in the First Year will have to be corrected. Usually this may be done by using electives to satisfy the deficiencies.

b. Senior Transfers

Students who are not graduates but have standing beyond First Year may enrol for the "Professional Year" with the approval of the Dean of Education. Any deficiency in Core courses may have to be corrected before the student will be admitted to this "Professional Year."

One of Art Education 100, Music Education 105, Physical Education 149	(3)
*Two of Education 701, 705, 747	(2)
Education 742	(2)
Education 745	(1)
Education 746	(1)
Education 797 (Student Teaching)	(3)
Mathematics 203	(3)
Education 200	(3)

18

*Students must not elect Education 701 if they have credit in Art Education 100; nor Education 705 if they have credit in Music Education 105; nor Education 747 if they have credit in Physical Education 149.

c. Transfers from a Two-Year Programme for Teachers Holding a Normal School Diploma with the Elementary Basic Teaching Certificate.

Students who are graduates of a recognized Canadian, British or other Normal School or Teachers' College who also possess senior matriculation or equivalent standing will be granted credit as transfer students toward the Bachelor of Education (Elementary Programme) degree as follows:

Grade 13 or equivalent	15 units
Professional teacher training	15 units

Before being granted full Second Year standing in this programme, they must complete English 200 or 201 or 203 unless an equivalent second-year English course has been completed.

Students with the above requirements are registered in the Third Year of the Bachelor of Education (Elementary Programme). On completion of the work of Third and Fourth Years in this programme the degree will be granted.

Third Year:

Education 305	(3)
*Geography 303	(3)
One of: English 301, First-Year language other than English, Mathematics 130, Art Education 100, Music Education 105	(3)
A First-Year laboratory science (or an approved elective if this has been satisfied).	(3)
Teaching area courses, approved electives	(6)
	18

*A student who has already taken Geography 101 must choose in place of Geography 303 another approved Geography course (preferably a regional course).

Fourth Year:

English 300	(3)
Education 420 or 423 or 427	(3)
Education 345 (except for students with Art or Music Teaching Areas)	(3)
Teaching area, or approved electives, or a combination of both	(9)
	18

d. Teaching Areas and Specialization in the Elementary Programme

For information about teaching areas and professional specialization, see pages 160 and 161. It should be noted that students in the four-year programme will complete only one of these areas.

COURSES IN THE FACULTY OF EDUCATION

UNDERGRADUATE COURSES

197. (0) **First-Year Elementary Seminar and School Experience**

198. (0) **First-Year Secondary Seminar**

200. (3) **Introduction to Educational Psychology**

The application of psychological principles to elementary classroom practice.
Dr. Galloway, Mr. Ruth, Dr. Thomas, Mr. Thomson. (3-0; 3-0)

220. (3) **Introduction to the Social Foundations of Education**

An introduction to Educational Foundations, and to the contribution of the field to an understanding of perennial problems in Education.
Mr. Smith. (3-0; 3-0)

245. (3) **General Science for Primary Teachers**

The processes of scientific inquiry; observation, classification, measurement and inference and their application to teaching. Selected topics in the natural sciences to provide a pertinent background for teaching primary grade curricula. Laboratory exercises integrating process, content, and method.
Mr. Hall, Mr. Sheppy, Mr. Swailes. (3-0; 3-0)

297. (0) **Second-Year Elementary Seminar and School Experience**

298. (0) **Second-Year Secondary Seminar**

301. (1 ½) **Introduction to Measurement in Education**

Elementary statistics, test validity and reliability, marking and grading.
Dr. Mason. (3-0; 0-0)

303. (1 ½) **Introduction to Psychology of Classroom Learning**

An introduction to the psychology of learning in the secondary school. (3-0; 0-0)

305. (3) **Psychology of Childhood**

Mental, social, emotional and physical characteristics of pre-school and elementary school pupils, their interests and problems; emphasis upon classroom implications.
Dr. Chabassol, Mr. Thomson. (3-0; 3-0)

340. (3) **Curriculum and Instruction in the Kindergarten and Primary Grades**

Trends, issues and research in kindergarten and primary education as the basis for curriculum development, organization, and instruction.
Miss Dey. (3-0; 3-0)

342. (3) **Developmental Reading**

The problems of teaching reading, grades 1 to 7; the nature and psychology of reading; the basic skills and abilities; evaluating reading, remedial reading.
Dr. Westermarck. (3-0; 3-0)

343. (1 ½) **Language in Elementary Education**

A study of the literature and research on the teachings of spelling, handwriting, oral and written language, and listening.
Prerequisite: Education 742; English 200 or 201.
Mr. Crawford. (0-0; 3-0)

345. (3) **Science for Intermediate Teachers**

Selected topics in the physical and biological sciences designed to provide teachers with a broad background for teaching in the intermediate grades. Laboratory work related to understanding and teaching the concepts.

Mr. Hall, Mr. Sheppy, Mr. Swailes.

(2-2; 2-2)

398. (0) **Third-Year Secondary Seminar and School Experience**

401. (1 ½) **Evaluation of Learning**

The measurement of educational objectives, test item construction and improvement, reporting pupil progress.

Prerequisite: Education 301.

Dr. Mason.

(0-0; 3-0)

402. (1 ½) **Individual Testing**

Theory and practice in the use of individual tests in education.

Prerequisite: Education 301.

(Not offered in 1967-68).

(0-0; 3-0)

403. (3) **Social Psychology of School and Classroom**

The application of social learning theory to school and classroom management.

Dr. Galloway.

(3-0; 3-0)

406. (3) **Psychology of Adolescence**

The physiological, psychological, social, and educational aspects of adolescence.

Dr. Chabassol, Dr. Peavy.

(3-0; 3-0)

407. (1 ½) **Introduction to the Study of Exceptional Children**

A survey of all groups of exceptional children with particular reference to those whose needs can best be met in the school. Consideration will be given to definition and classification.

Dr. Thomas.

(3-0; 0-0)

408. (1 ½) **Education of the Gifted**

Identification procedures; early school admission and acceleration; setting goals for instruction; effective teaching methods; currently operating programmes.

Prerequisite: Education 407.

Mr. Ruth.

(0-0; 3-0)

409. (1 ½) **Education of the Slow Learner**

Developing a philosophy for educating the slow learner; an examination of the current research; interpretation, diagnosis and remediation techniques; evaluating programme effectiveness.

Prerequisite: Education 407.

(Not offered in 1967-68).

(0-0; 3-0)

410. (1 ½) **Education of the Mentally Retarded**

Selection procedures; curriculum modifications; effective teaching methods; currently operating programmes; evaluating programme effectiveness.

Prerequisite: Education 407.

Mr. Ruth.

(0-0; 3-0)

411. (1 ½) **Education of the Disadvantaged**

The effect of cultural disadvantages on school performance; special curricula for the disadvantaged; evaluating the effectiveness of the programme.

Prerequisite: Education 407.

(Not offered in 1967-68).

413. (1 ½) **Mental Health**

An examination of the principles of mental health and their application to the classroom.

(Not offered in 1967-68).

414. (1 ½) **Problems of Speech and Hearing**

An introduction to the problems of educating children with speech or hearing difficulties.

Prerequisite: Education 407.

(Not offered in 1967-68).

415. (1 ½) **Diagnosis of Learning Difficulties**

A consideration of the common tests used; the interpretation of test results; types of curriculum modification.

Mrs. Burg.

(3-0; 0-0)

416. (1 ½) **Remedial Instruction**

A consideration of the general principles of remedial instruction.

Prerequisite: Education 415.

Mrs. Burg.

(0-0; 3-0)

417. (3) **Introduction to Counselling in the Schools**

An introduction to the principles and practices of counselling.

Dr. Peavy.

(3-0; 3-0)

420. (3) **Philosophy of Education**

An introductory course dealing with the philosophical foundations of education and their implications for curriculum and instruction in the schools.

Dr. Monk.

(3-0; 3-0)

423. (3) **History of Education**

Development of educational theory and practice from the time of ancient Greece to the present.

Dr. Goulson, Mr. Smith.

(3-0; 3-0)

427. (3) **Sociology of Education**

The social structure of western civilization and its significance for education.

(Not offered in 1967-68).

(3-0; 3-0)

430. (1 ½) **The Organization and Administration of the B.C. School System**

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.

Mr. Brand.

(3-0; 0-0)

431. (3) **An Introduction to School Administration**

Mr. Farquhar.

(3-0; 3-0)

440. (3) **Early Childhood Education**

Selection of curriculum content, experiences, and materials based on analysis of the developmental needs and behaviour of young children.

Prerequisite: Education 305 and 340.

(Not offered in 1967-68).

(3-0; 3-0)

442. (1 ½) **Remedial Reading**

Identification of retarded readers; analysis and treatment of reading disabilities; selection of materials; organization of remedial instruction in the regular and remedial class.

Prerequisite: Education 415 or equivalent.

Dr. Westermarck.

(0-0; 3-0)

445. (3) **Science Education**

The nature of scientific inquiry, studies of the research in science teaching, comparative curricula, and contemporary thinking in science education. Laboratory work in the preparation and use of experimental materials.

Mr. Hall, Mr. Sheppy, Mr. Swailes. (2-2; 2-2)

490. (3) **Principles of Teaching Second Languages**

The application of linguistic principles in teaching second languages including contrastive language analysis, methods, materials; gradation, presentation, repetition, and measurement in lesson development. Attention given to automated language teaching.

Prerequisite: One of Linguistics 100, 210, 360, 390.

(Not offered in 1967-68). (3-0; 3-0)

495. (1½) **Directed Studies**

Research projects, directed reading, or additional course work as approved by the Dean of Education.

498. (0) **Fourth-Year Secondary Seminar**

701. (1) **Curriculum and Instruction in Art**

A study of the curriculum organization and techniques of instruction in elementary art. (2-0; 2-0)

705. (1) **Curriculum and Instruction in Music**

A study of the curriculum organization and techniques of instruction in elementary music. (1-0; 1-0)

742. (2) **Curriculum and Instruction in the Language Arts (Primary or Intermediate Grade Emphasis)**

A study of the curriculum organization and techniques and materials of instruction in language arts. (3-0; 3-0)

744. (1) **Curriculum and Instruction in Elementary Mathematics**

A study of the curriculum organization and techniques of instruction in elementary mathematics. (1-0; 1-0)

745. (1) **Curriculum and Instruction in Elementary Science**

A study of the curriculum organization and techniques of instruction in elementary science. (2-0; 1-0)

746. (1) **Curriculum and Instruction in Elementary Social Studies**

A study of the curriculum organization and techniques of instruction in elementary social studies. (1-0; 2-0)

747. (1) **Curriculum and Instruction in Elementary Physical Education**

A study of the curriculum organization and techniques of instruction in elementary physical education. (2-0; 2-0)

750. (1½, 3) **Curriculum and Instruction in Two Secondary School Subjects**

General programme transfers are required to take the two Education 750 courses corresponding to their two teaching subjects.

Honours programme transfers are required to take only the one appropriate Education 750 course. In addition they must complete Education 495 which consists of 1½ units of further appropriate course work or a special research project, directed reading, etc. as approved by the Dean of Education. (4-0; 4-0)

797. (3) **Seminar and Elementary Student Teaching**

For students registered in the "Professional Year," Elementary Programme.

798. (3) **Secondary Student Teaching**

For students registered in the "Professional Year," Secondary Programme.

ART EDUCATION

100. (3) **Art Education in the Elementary Schools**

A study of the growth and development of Art Education, classroom management, teaching techniques in Art as related to elementary grades. (3-0; 3-0)

300. (3) **Art Education (Advanced)**

Programme planning and laboratory investigation of art media involved in handling painting, design, graphics and other two-dimensional problems at the elementary level. (3-0; 3-0)

301. (3) **Crafts in the Elementary Schools**

Teaching methods and techniques for crafts and three-dimensional problems as related to the elementary grades. (3-0; 3-0)

400. (3) **Special Study**

This will include a study of a particular field of Art Education carried out under the direction of a member of Faculty. A lecture-demonstration study of the growth and development of children in relation to creative expression, including the philosophy of art education. (3-0; 3-0)

MUSIC EDUCATION

105. (3) **Music Education in Elementary Schools**

Introduction to music education; a study of the music curriculum and methods for the elementary grades. (3-0; 3-0)

305. (3) **Music Education (Advanced)**

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. (3-0; 3-0)

LIBRARY EDUCATION

430. (3) **Selection and Organization of Library Materials**

The library as a resource centre; collecting, evaluating, and organizing materials; cataloguing books, etc.

(Not offered in 1967-68). (3-0; 3-0)

431. (3) **School Library Services**

The role of the school library, programmes and services, administering the library, staffing, supervision, etc.

(Not offered in 1967-68). (3-0; 3-0)

PHYSICAL EDUCATION

140. (0) **Physical Education Activities I**

Gymnastics I, Swimming, Rhythmics, Basic Activities; membership on a University team is considered important.

Mr. Bell, Mrs. Hibberson, Mrs. McLaughlin. (0-3; 0-3)

141. (3) **Introduction to Physical Education 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 to athletics.

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

149. (3) **Physical Education in Elementary Schools**

Content of the physical education programme in the elementary school; principles and techniques of instruction; intramural organization.

Physical Education Staff. (2-2; 2-2)

240. (0) **Physical Education Activities II**

Track and Field I, Softball, Badminton and Basketball; officiating of games is stressed.

Physical Education Staff. (0-3; 0-3)

241. (3) **Human Physiology and Anatomy**

Gross anatomy; skeletal and muscular systems; circulatory, respiratory, digestive and neural systems, their structure and function in relation to vigorous physical activities.

Mr. Morton. (2-2; 2-2)

340. (0) **Physical Education Activities III**

Gymnastics II, Soccer (men) or Field Hockey (women), Volleyball, Tennis; participation as player, coach, or official is recommended.

Physical Education Staff. (0-3; 0-3)

341. (1 ½) **Kinesiology**

Action of muscles in gymnastics and athletics; science of muscular movement.

Mr. Morton. (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.

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

440. (0) **Physical Education Activities IV**

Track and Field II.

Elective A: One of curling, golf, archery, bowling, fencing.

Elective B: (Women take two of these and men take one). Advanced work in basketball or soccer or field hockey or dance.

Elective C: (Men only), rugby or wrestling.

Physical Education Staff. (0-3; 0-3)

441. (1 ½) **Physiology of Exercise**

Effects of exercise on muscle and organic systems; energy cost of activities; the role of oxygen; fatigue and staleness; tests of physical fitness.

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

442. (1 ½) **Recreation in School and Community**

Nature of recreation; its function and scope; school-community administration and programmes; leadership in schools, camps, and communities; inter-relationship of these programmes. (3-0; 0-0)

443. (1 ½) **Organization and Administration of Physical Education**

Budget and finance; personnel; facilities, equipment and supplies; scheduling; public relations; improvement of instruction; organization and management of sports.

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

444. (1 ½) **Measurement of Fitness and Prevention of Athletic Injuries**

Interpretation and use of tests of body type, physical fitness, motor ability, strength, and skills; criteria for selection of tests and the place and potential of measurement in physical education. Conditioning and care of athletes; care of injuries; therapy, taping, and protective equipment.

Mr. Bell, Mr. Morton. (2-1; 0-0)

INDUSTRIAL EDUCATION

*These courses are offered only at the British Columbia Vocational School, Burnaby.

250. (3) **Technology of Woodworking I**

Fundamentals of bench and machine woodwork; design and layout; hand and machine tool maintenance. (2-4; 2-4)

251. (3) **Technology of Metalworking I**

An introduction to bench metalwork and light machine work; lathe and shaper operations; heat treatment of carbon steel; forging; founding; welding and related metallurgy; project planning; teaching aids and shop management. (2-4; 2-4)

253. (3) **Principles of Technical Drawing**

Lettering; descriptive geometry; orthographic projection; sections; auxiliary views; sketching; technical illustrating; fastenings; methods of drawing reproduction; surface development. (2-4; 2-4)

254. (1 ½) **Oxyacetylene and Arc Welding**

Oxyacetylene: fusion welding mild steel; flame cutting; testing and inspection of welds; bronze welding; silver alloy brazing, aluminum welding. Arc: practice in common types of weld in mild steel; bronze welding. (1-2; 1-2)

255. (3) **Electricity in Industrial Education I**

D.C. fundamentals and circuits; D.C. motors and generators; signal circuits; electro-chemical devices; D.C. measurement; residential wiring circuits. (3-3; 3-3)

256. (3) **Electronics in Industrial Education I**

Fundamental circuits; vacuum tubes and semi-conductor devices as applied amplifiers and power supplies; measurements.

Prerequisite: Industrial Education 255.

(0-0; 3-3)

257. (1 ½) **Industrial Coatings**

Theory and practice of applying industrial finishing materials; manual and mechanical application to wood, metal and synthetic surfaces.

Prerequisites: Industrial Education 250, 251.

(1-2; 1-2)

258. (3) **Power Mechanics Theory and Practice**

Heat engines—internal and external combustion types; fuels; mechanical and hydraulic power transmission; power control. (3-3; 3-3)

350. (3) **Technology of Woodworking II**

Design and layout of contemporary furniture; elementary finishing; production principles and techniques.

Prerequisite: Industrial Education 250.

(2-4; 2-4)

351. (3) **Technology of Metalworking II**

An intermediate course in bench metalwork and light machine work; operations on lathe, shaper, surface grinder and milling machine; heat treatment; forging, welding and related metallurgy; student design and manufacture individual items.

Prerequisite: Industrial Education 251.

(2-4; 2-4)

352. (3) **Technology of Building Construction I**

Design and construction of single unit residential buildings; custom and pre-fabrication methods; western platform frame and post and beam construction.

Prerequisite: Industrial Education 250.

(2-4; 2-4)

353. (3) **Design in Industrial Education**

Functional structural and aesthetic aspects of design applied to Industrial Education projects. (2-4; 2-4)

354. (3) **Patternmaking and Foundry Practice**

Influence of foundry techniques and metallurgy on design; practical application of various types of patterns; core box making; green sand moulding; core-making; gating; practice; melting and pouring brass, iron, and aluminum alloys.

Prerequisite: Industrial Education 251. (2-4; 2-4)

355. (3) **Electricity in Industrial Education II**

Single and polphase circuit analysis, alternating current machinery and controls; generation and distribution of electrical energy.

Prerequisite: Industrial Education 255. (3-3; 3-3)

356. (3) **Electronics in Industrial Education II**

Data generation, transmission, and receiving systems; principles of HF, VHF, UHF, and microwave communication systems. R.F. measurements.

Prerequisite: Industrial Education 256. (3-3; 3-3)

357. (3) **Materials Technology in Industrial Education**

Wood and materials directly derived from wood; metals and alloys; synthetics; adhesives; physical testing of materials.

Prerequisites: Industrial Education 250, 251. (3-3; 3-3)

358. (3) **Automotive Theory and Practice I**

General construction of power plant, auxiliary systems, fuels, carburetion, lubrication, cooling systems, clutch, gear box, rear axles, drive shafts, universal joints, front suspension and steering gears, brakes.

Prerequisites: Industrial Education 258, 251. (2-4; 2-4)

359. (1½) **Measurement Theory and Practice**

Principles and practices of electrical measurements; design and construction of measurement devices.

Prerequisites: Industrial Education 255, 256. (1-2; 1-2)

450. (3) **Millwork Theory and Practice**

Furniture and fixture design; layout and production; custom and mass production methods; prefabrication techniques.

Prerequisite: Industrial Education 250. (2-4; 2-4)

451. (3) **Technology of Metalworking III**

Methods of forming, joining, machining heat treatment and finishing of metals. Design analysis and the development of manufacturing techniques.

Prerequisite: Industrial Education 351. (2-4; 2-4)

452. (3) **Technology of Building Construction II**

Design and construction of industrial commercial buildings; level and transit; estimating and contracting.

Prerequisites: Industrial Education 250, 352. (2-4; 2-4)

453. (1½) **Problems in Graphic Representation**

Specific drafting problems associated with each of the following specialties: (a) Construction: Millwork and furniture drawings, small boat design; national and local building codes; descriptive geometry. (b) Metals-Mechanics; Surface development; gearing; descriptive geometry. (c) Electricity-Electronics: Layout and representation of problems in electrical and electronic design.

Prerequisite: Industrial Education 253. (1-2; 1-2)

455. (3) **Problems in Electrical Equipment Production**

Fabrication and assembly of electrical and electronic equipment; techniques applicable to the school situation; evaluation of design and manufacturing technique.

Prerequisites: Industrial Education 255, 256. (3-3; 3-3)

456. (3) **Electronics in Industrial Education III**
 Transducers; Processors; Transmission; Deprocessing; Transducers for Readout and Display.
 Prerequisite: Industrial Education 256. (3-3; 3-3)
457. (3) **Technology of Synthetic Materials**
 Principles and practices of synthetic materials lay-up; forming and extrusion; design and production of moulds and plugs; die casting.
 Prerequisites: Industrial Education 250, 251. (2-4; 2-4)
458. (3) **Automotive Theory and Practice II**
 Advanced automotive design and repair; diagnosis of mechanical and electrical faults; evaluation of modern servicing procedures.
 Prerequisite: Industrial Education 358. (2-4; 2-4)
459. (3) **Technical Problems**
 This course gives the student the opportunity to conduct directed study in an area within his technical field of specialization. Study will culminate in a written paper.
 Prerequisites: Completion of a technical specialty or equivalent. (1-5; 1-5)

GRADUATE COURSES

501. (3) **Measurement and Evaluation**
 Dr. Mason.
502. (3) **Methods of Educational Research**
 Dr. Horne.
503. (3) **Psychology of Classroom Learning**
 (Not offered 1967-68).
505. (3) **Seminar in Human Development**
 Dr. Chabassol.
507. (3) **Psychology of Individual Differences**
 Dr. Tyler.
520. (3) **Seminar In the Philosophy of Education**
 (Not offered in 1967-68).
521. (3) **Educational Classics**
 Dr. Goulson.
531. (1 ½) **Administration of Public Education In Canada**
 (Not offered 1967-68).
532. (1 ½) **Administration of the Educational Programme**
 (Not offered 1967-68).
533. (3) **Concepts In Administrative and Supervisory Behaviour In Education**
 Mr. Farquhar.
590. (3) **Special Problems**
 Dean of the Faculty.
599. (Credit to be determined) **Thesis.**

School of Fine Arts

SCHOOL OF FINE ARTS

Peter Garvie, M.A. (*Cantab.*), Professor and Director of the School.

Division of Art and Art History

Alan Gowans, M.A. (*Tor.*), M.F.A., Ph.D. (*Princeton*), Professor and Chairman of the Division.

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

Donald Harvey, A.T.D. (*Britain*), Assistant Professor.

John Philip Dobereiner, Dip. V.S.A., B.Ed. (*Brit. Col.*), M.F.A. (*Wash.*), Instructor.

Division of Music

Gerald M. Hendrie, M.A., Mus.B., Ph.D. (*Cantab.*), Associate Professor and Chairman of the Division.

Howard B. Barnett, A.T.C.M., B.A., Mus. Bac. (*Tor.*), M.A., Ph.D. (*S. Calif.*), Associate Professor.

Hugh J. McLean, B.A., M.Mus. (*Cantab.*), Assistant Professor.

Bryan N. S. Gooch, M.A. (*Brit. Col.*), A.R.C.T. (*Tor.*), F.T.C.L. (*London*), (from Department of English).

Charles Palmer, M.A., B.Mus. (*Oxon.*), A.R.C.M., A.R.C.U., Conductor of University Choir.

Division of Theatre

Carl R. D. Hare, M.A. (*Alta.*), Dip. R.A.D.A., Assistant Professor and Acting Chairman of the Division.

Frederick Edell, M.F.A. (*Yale*), Assistant Professor.

Edward B. Schoffner, A.B. (*San Diego*), Technical Supervisor and Part-time Lecturer.

The School of Fine Arts comprises the Divisions of Art and Art History, Music and Theatre, and offers courses leading to the degree of Bachelor of Arts in Art History; Bachelor of Music; Bachelor of Fine Arts with majors in Theatre and in the Studio Arts; Diploma in Fine Arts in the Studio 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. 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 (See pages 30 to 43, 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 31 - 34 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 Studio Arts with specialization in Painting, Ceramics, Design, Graphic Art or Sculpture. Third and fourth year courses will be available in *Design and Painting only* during the 1967-68 session. Students must complete 60 units of prescribed course work, of which at least 12 units must be taken in the area of specialization.

Subject	Year 1	Year 2	Year 3	Year 4
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	3 units	—	3 units*	3 units*
English	Eng. 100	Eng. 200, 201 or 203	—	—
Studio Electives	—	3 units	—	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.

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 Studio 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 *Design and Painting only* during the 1967-68 session.

Subject	Year 1	Year 2	Year 3	Year 4
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	3 units	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

PROGRAMMES IN ART HISTORY

The history of art is a specialized branch of historical study, differing from history proper in that, instead of relying primarily on the interpretation of written documents, it interprets architecture, painting, furniture, sculpture and other arts as evidence of how past generations lived and thought. It follows that art history is at once a specialized discipline, demanding particular knowledge about historical art as well as ability to read its "language," and the broadest of all humanistic studies; full interpretation of historic art requires study not only of cognate arts such as literature and music and drama, but also of many related disciplines ranging from social sciences to theology and aesthetics. No undergraduate programme could hope to offer an entirely adequate background in all these areas, and students should understand that the B.A. degree in Art History represents only a sound foundation for further growth toward fuller awareness and deeper understanding of history as revealed in

art, towards that "wisdom" which, as T. S. Eliot once declared, "educational institutions cannot teach because it cannot be learnt in the time or wholly in such surroundings, but which they can teach us to desire, which they can teach us how to go about acquiring." Fortunately, because art and architecture in some form surround everyone everywhere, the learning process can and should proceed through life for graduates in this field as in no other, whether or not they go on to formal graduate school.

Within these limitations, however, the Division's Programme of study is intended to make this foundation as broad as feasible, its wide range of electives providing at least an opportunity to sample the scope of possibilities within the discipline.

In their first two years, students begin learning the specialized language of art history by which historical monuments can be read, first in general terms, and then in specific application to the art of primitive cultures, classical and other non-Western civilizations, and the medieval period of Western civilization; electives are suggested relevant to these areas. In the third year, art history and elective courses emphasize the Renaissance and Baroque periods (c. 1400-1750); in the fourth year, art and culture of the two centuries since 1750.

Beginning with the third year, two areas of concentration are possible within the major. Either students may elect to pursue broad art history studies, with a view to possible graduate work in the discipline, or elect a narrower concentration on North American culture with a view to work in museums, historical societies, national monuments, and the like. These programmes are not mutually exclusive, of course; both provide an adequate background for either graduate or museum work, but the knowledge of archaeological and museum display techniques provided by the one would obviously be more helpful in museum work than in the ordinary graduate school, and vice-versa for the introduction to scholarly research techniques provided by the other.

YEARS 1 AND 2

Subject	Year 1	Units	Year 2	Units
Art History	Art 120	3	Art 320	3
English	Eng. 100	3	Eng. 200, 201 or 203	3
Language	100 level *	3	200 level	3
Historical study background	one of: Clas. 200, Hist. 101, 102	3	two** of: Anth. 305, 306, 310 Clas. 200, 330 340 Hist. 204	
Social study background	one of: Anth. 100, Geog. 101, 303 Phil. 100	3	Ling. 100, 210 Phil. 300, 305 Theatre 310	6
		—		—
		15		15

*Students intending to elect North American museum concentration should take French or Spanish; for area concentration leading to graduate school, a language other than that presented for university admission (preferably German, Italian, or Latin).

**Students may not take more than one elective in a given field in any one year — i.e., students may not take both Philosophy 300 and 305 in Year 2, for example.

YEARS 3 AND 4 — Museum and North American studies Concentration

Subject	Year 3	Units	Year 4	Units
Art History	Art 340 Art 481	6	Art 360 Art 380 Art 490	9
Special North American background	one of: Geog. 307 Anth. 441	3	one of: Geog. 307 Anth. 441	3
Historical background	one of: Hist. 212 Hist. 303 Hist. 305 Hist. 311 Hist. 312	3	one of: Econ. 321 Eng. 203 Hist. 212, 303, 305, 311, 312 Pol. Sc. 310	3
Background for Museum techniques	one of: Art 125, 205, 305 Art 303 Art 307, 407, 417	3		—
		— 15		— 15

YEARS 3 AND 4 — Area Concentration

Subject	Year 3	Units	Year 4	Units
Art History	Art 340 Art 441	6	Art 360 Art 380 Art 490	9
Historical, social, comparative disciplines elective	three of: Clas. Latin lit. in transl. Hist. 200 Eng. 410 or 413 or 418 or 424 or 425 Music 110 Phil. 310 or 312 or 330 Theatre 310 or 311	9	two of: Hist. 200 Psych. 100 Pol. Sc. 300 Econ. 101 Music 110 or 210 Theatre 311 or 312	6
		— 15		— 15

COURSES OFFERED

Art History Courses

†ART 100. (3) **Survey of World Art**
(Not offered 1967-68).

†*ART 120. (3) **Language of Art History**
(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. Open to First and Second Year students only. (3-0; 3-0)

*Approved for credit in the Faculty of Arts and Science.

†Approved for credit in the Faculty of Education.

***ART 320. (3) Ancient, Medieval, and Non-Western Art History**

A basic course introducing students to the principles and basic material of Art History in Western civilization from the 10th to the 15th century, as well as the civilization of Egypt, Mesopotamia, Greece and Rome.

Some study will also be made, as occasion allows, of pre-historic and primitive Art History, the arts of the Levant from ancient Persian to Islamic times, India and the Far East. (3-0; 3-0)

***ART 340. (3) Renaissance and Baroque Art in Western Europe**

The evolution of art and architecture as the expression of ideas from ca. 1400-1750, with special emphasis on the art of "Old Masters" such as van Eyck, Ghiberti, Donatello, van der Weyden, Leonardo, Raphael, Michelangelo, Titian, Bernini, Rembrandt, etc. (3-0; 3-0)

†*ART 360. (3) Painting since 1750

An examination of the development in painting over the last 200 years with special emphasis on the changing concept of what art is and what artists do in and for society. The parallel developments in sculpture will be considered. (3-0; 3-0)

***ART 380. (3) Architecture since 1750**

Basic developments in the theory and practice of architecture in Western Europe, Canada and U.S.A. over the last 200 years, with special emphasis on architecture as the expression of social, economic and religious ideas. (3-0; 3-0)

***ART 441. (3) Special studies in Art of the Renaissance**

Specialized aspects of painting, sculpture and architecture in Europe from 1300-1500. (3-0; 3-0)

***ART 481. (3) History of Architecture in North America**

Study of architectural developments in Canada and U.S.A. from the 17th century to the present, with special emphasis on interiors and furniture, and the expression of distinctively North American cultural attitudes. (3-0; 3-0)

***ART 490. (3) Directed Studies**

This course may be taken more than once, in different fields, at the discretion of the Division.

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.

*Approved for credit in the Faculty of Arts and Science.

†Approved for credit in the Faculty of Education.

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)

ART 491. (3) Directed Studies in Painting

SCULPTURE

(N.B. No course in Sculpture will be offered in 1967-68.)

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.

(Not offered 1967-68). (0-4; 0-4)

†**ART 403. (3) Ceramics II**

A course designed to give practical experience in wheel thrown pottery; the various methods of decoration, including underglaze and overglaze formulae; and firing. There is a laboratory fee of \$5.00. Prerequisite: Art 303. (0-4; 0-4)

†**ART 413. (3) Ceramics III**

(Not offered 1967-68).

ART 493. (3) Directed Studies

(Not offered 1967-68).

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 1967-68).

ART 425. (3) Typographic Design

(Not offered 1967-68).

ART 495. (3) Directed Studies in Design

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.

†Approved for credit in the Faculty of Education.

†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)

ART 497. (3) **Directed Studies in Graphics**

(Not offered 1967-68).

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

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

General Programme in Music

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, and should, wherever possible, arrange an interview with the Division before seeking admission.

All B.Mus. students, regardless of their choice of Major, will take a common first-year programme of Music courses. Music 130 is mandatory for all first-year B.Mus. students, who must also show a competent standard of performance on the solo instrument of their choice (Music 140 or 240) and be a member of one of the performing ensembles (Music 150, 151, 152, or 153). Instruction on a solo instrument will be given by a teacher approved by the Division.

<i>Year 1</i>	
Music 100	3
Music 110	3
Music 130	2
One of: Music 140, 240	1
One of: Music 150, 151, 152, 153	0
English 100	3
*Arts or Fine Arts elective	3
	—
	15

*To be chosen in consultation with the Division.

Students who intend to register in the General Programme of the B.Mus. (with a view to teaching in the public school system), should ensure that in the four years of work they include 15 units of a single academic discipline, outside of Music, which will eventually constitute a second teaching area in secondary schools. See the Faculty of Education regulations. The student can then complete his study with a fifth professional year in the Faculty of Education.

Major in Theory and Composition

<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
Music 200	Music 300	Music 400
Music History elective	Music 305	Music 405
Music 205	Music History elective	Music 406
One of:	Music 335	Senior Music elective
English 200, 201, 203	Arts or Fine Arts	Arts or Fine Arts
Arts or Fine Arts	elective	elective
elective	One of: Music 150,	Music 355
One of: Music 150,	151, 152, 153, 354	
151, 152, 153	One of: Music 240,	
One of: Music 240,	340, 440	
340		
—	—	—
16	16	16

Major in Music History

<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
One of: English 200, 201, 203	Two Music History electives	Two Music History electives
3	6	6
Two Music History electives	Music 300	Music 426
6	3	3
Music 200	Music elective	Music 354
3	3	0
Arts or Fine Arts elective	Arts or Fine Arts elective	One of: Music 240, 340, 440
3	3	1
One of: Music 150, 151, 152, 153	One of: Music 150, 151, 152, 153, 354	Arts or Fine Arts electives
0	0	6
One of: Music 140, 240, 340	One of: Music 140, 240, 340	
1	1	
—	—	—
16	16	16

General Programme in Music

<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
Music 200	Music 300	Music 460
3	3	3
Music History elective	Music 360	Music 335
3	3	3
One of: English 200, 201, 203	Arts or Fine Arts elective	Music 356
3	3	2
Arts or Fine Arts elective	Music Education 305	1 or 2 Music electives
3	3	} 8 or 9
One of: Music 330, 331, 332	One of: Music 330, 331, 332	
2	2	One of Music 340, 440
One of: Music 150, 151, 152, 153	One of: Music 150, 151, 152, 153, 354	1
0	0	
One of: Music 140, 240, 340	One of: Music 240, 340	
1	1	
—	—	—
15	15	17 or 18

COURSES OFFERED

LANGUAGE OF MUSIC

***†100. (3) Language of Music I**

Study, analysis and practice of elementary choral and instrumental harmony.

Prerequisite: evidence of music training acceptable to the Division. (3-2; 3-2)

***†200. (3) Language of Music II**

Advanced study of harmonic practices of the 18th and 19th centuries.

Prerequisite: Mu. 100. (3-2; 3-2)

†300. (3) Language of Music III

A study of contrapuntal techniques from 1500 to 1900.

Prerequisite: Mu. 200. (3-0; 3-0)

†400. (3) Language of Music IV

A study of melodic, rhythmic and harmonic practices of 20th century composers.

Prerequisite: Mu. 300. (3-0; 3-0)

*Approved for credit in the Faculty of Arts and Science.

†Approved for credit in the Faculty of Education.

COMPOSITION

- †205. (3) **Music Composition I**
Introduction to the art of composition.
Prerequisite: Mu. 100. (3-0; 3-0)
305. (3) **Music Composition II**
Prerequisite: Mu. 205. (3-0; 3-0)
405. (3) **Music Composition III**
Prerequisite: Mu. 305. (3-0; 3-0)
406. (3) **Directed Studies**
Tutorial or seminar studies and graduating composition.
Prerequisite: Mu. 305. (3-0; 3-0)

MUSIC HISTORY

- *†110. (3) **Introduction to Music History and Literature**
A survey of music literature in the changing cultural patterns of Western civilization from antiquity to the present day. (3-0; 3-0)
- *†310. (3) **Music of the Romantic and Modern Periods**
A study of music and its history from circa 1800 to the present day.
Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)
- *†311. (3) **Music of the Baroque and Classical Periods**
A study of music and music history from the creation of opera to the end of the 18th century.
Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)
- *†312. (3) **Music of the Ancient, Mediaeval and Renaissance Periods**
A study of music from Ancient Greece to circa 1600.
Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)
- *†313. (3) **Opera and Oratorio**
A study of choral forms from circa 1600 to the present day.
Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)
- *†314. (3) **Text, Music and Drama**
A study of the relationship of text and music in songs, choral works, and dramatic music of all periods, with special reference to the historical context.
Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)
- *†315. (3) **Orchestral Music**
Music for the orchestral ensemble from the Renaissance to the present day.
Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)
- *†316. (3) **Chamber Music**
Music for instrumental ensemble from the Renaissance to the present day.
Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)
- *†317. (3) **Song Literature**
A study of song from all periods in music history.
Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)

*Approved for credit in the Faculty of Arts and Science.

†Approved for credit in the Faculty of Education.

*†318. (3) **English Music of the 17th and 18th Centuries**

Study of English music and society from the end of the Elizabethan age to the death of Handel.

Prerequisite: Mu. 110 or FA. 101. (3-0; 3-0)

NOTE: If the prerequisite has been fulfilled, students may enrol in one of the History courses 310-318 in their second year.

325. (3) **Special Studies**

Study of special topics in consultation with the Music Division.

Prerequisite: Mu. 110. (3-0; 3-0)

425. (3) **Special Studies**

Study of special topics, in consultation with the Music Division.

Prerequisite: Mu. 110. (3-0; 3-0)

426. (3) **Seminar in Musicology**

For Music History majors only. Seminar will include the graduating essay.

(3-0; 3-0)

INSTRUMENTAL TECHNIQUES

†130. (2) **Introduction to Performance and Orchestration**

An introduction to musical instruments, their individual characteristics and use in ensemble, and to performance practice. (1-2; 1-2)

†330. (2) **Strings**

Group instruction in playing all orchestral stringed instruments. (1-3; 1-3)

†331. (2) **Brasses**

Group instruction in playing all orchestral brass instruments. (1-3; 1-3)

†332. (2) **Woodwinds**

Group instruction in playing all orchestral woodwind instruments. (1-3; 1-3)

†335. (3) **Orchestration**

Advanced study of instruments and orchestration.

Prerequisites: Mu. 130 and 200. (3-0; 3-0)

SOLO PERFORMANCE

†140. (1) **Individual Tuition**

Private lessons in piano, orchestral instrument or voice. Elementary level.

(0-1; 0-1)

†240. (1) **Individual Tuition**

Private lessons in piano, orchestral instrument or voice. Intermediate level.

(0-1; 0-1)

†340. (1) **Individual Tuition**

Private lessons in piano, orchestral instrument or voice. Senior level. (0-1; 0-1)

†440. (1) **Individual Tuition**

Private lessons in piano, orchestral instrument or voice. Advanced level. (0-1; 0-1)

PERFORMANCE GROUPS

†150. (0) **University Choir**

(0-2; 0-2)

†151. (0) **University Orchestra**

(0-2; 0-2)

*Approved for credit in the Faculty of Arts and Science.

†Approved for credit in the Faculty of Education.

†152. (0) Instrumental Ensemble	(0-2; 0-2)
†153. (0) Madrigal Singers	(0-2; 0-2)
354. (0) Collegium Musicum	(0-2; 0-2)
355. (1) Composers' Lab.	(0-2; 0-2)
†356. (2) Conductors' Lab.	(0-2; 0-2)

NOTE: The above courses may be repeated *once* for credit.

Choral Music

†360. (3) **Introduction to Choral Music**

Survey and performance of choral works, with an introduction to choral analysis and choral techniques. (1-2; 1-2)

†460. (3) **Advanced Choral Music**

A continuation of Music 360, with special attention to analytical and performance techniques.

Prerequisite: Music 360.

(1-2; 1-2)

†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, the Theatre Division and the Players Club present major productions in the Phoenix Theatre. As well, a season of noontime experimental productions is presented in the Workshop Theatre.

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 1967-68 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

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.

Text: Roberts, *On Stage*.

(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.

(Not offered 1967-68).

(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.

(Not offered 1967-68).

(3-0; 3-0)

ACTING

†120. (3) *Acting I*

First stage in acting, movement and voice; improvisation, mime, including the use of masks; muscular control, endurance, flexibility, response to imagery, awareness of spatial relationships; breath control, tonal development, range of pitch, relation of voice to body in action.

(2-4; 2-4)

*Approved for credit in the Faculty of Arts and Science.

†Approved for credit in the Faculty of Education.

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>
English	English 100	(3) English 200, 201 or 203	(3)	
Theatre (Academic)	Theatre 170	(3) Theatre 310, 311 or 312	Theatre 310, 311 or 312	(3)
Theatre (Laboratory)	Theatre 120 Theatre 140 Movement	(3) Theatre 299 (3) (0)	(3) Theatre 399	(3) Theatre 490
Theatre Major		Theatre 220, 230 or 240	Theatre 320, 330 or 340	Theatre 420, 430 or 440
Theatre Electives			(3)	6 units (6)
Non-Theatre Electives	3 units	(3) 3 units	(3) 6 units	(6) 3 units
Units	15	15	15	15

†220. (3) **Acting II**

Internal technique and theory, advanced work in improvisation and mime; continuing work in movement, styles of sword play; phonetics and work in rhythm.
Prerequisite: Acting I. (2-4; 2-4)

320. (3) **Acting III**

(Not offered 1967-68).

420. (3) **Acting IV**

(Not offered 1967-68).

DIRECTING

†230. (3)

(Not offered 1967-68).

330. (3)

(Not offered 1967-68).

430. (3)

(Not offered 1967-68).

DESIGN AND PRODUCTION

†140. (3) **Production I**

An exploration of the basic elements of stagecraft: scenery, properties, lighting, sound, costumes, and stage management.

Text: To be announced.

(3-3; 3-3)

†240. (3)

(Not offered 1967-68).

340. (3)

(Not offered 1967-68).

440. (3)

(Not offered 1967-68).

CRITICISM

†*170. (3) **An Introduction to the Theatre**

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.

(3-0; 3-0)

*270. (3) **The History of Theatrical Criticism**

A detailed examination of major dramatic theories and critical works from Plato to the present day.

(Not offered 1967-68).

*370. (3) **Advanced Theatre Aesthetics**

Advanced study in dramatic form; styles of theatrical presentation and acting; the relationship of the theatre to other dramatic media and to contemporary society, literature, and thought. Selected plays will be examined in depth.

Prerequisite: Theatre 170 and 270 or consent of the instructor.

(Not offered 1967-68).

(3-0; 3-0)

*Approved for credit in the Faculty of Arts and Science.

†Approved for credit in the Faculty of Education.

***470. (3) Analysis and Criticism**

Detailed examination of contemporary dramatic forms and criticism. Students will be required to write criticisms of current productions.

Prerequisite: Theatre 270 or consent of the instructor.

(Not offered 1967-68).

(3-0; 3-0)

CHILDREN'S DRAMA

†280. (3) Child Drama

An examination of the principles of creative expression in children through the use of improvisation and movement. Studio work will be required.

(Not offered 1967-68)

(3-3; 3-3)

†380. (3) Children's Theatre

A survey of the development of children's theatre; an examination of approaches to children's theatre; a study of plays and materials suitable for presentation to children. Studio work will be required.

(Not offered 1967-68)

(3-3; 3-3)

DIRECTED STUDIES

299. (3) Theatre Laboratory

Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of the theatre. Open only to second-year students in the B.F.A. programme.

(1-2; 1-2)

***390. (3) Directed Studies in Theatre**

(3-0; 3-0)

399. (3) Theatre Laboratory

Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of the theatre. Open only to third-year students in the B.F.A. programme. (Not offered 1967-68).

(1-2; 1-2)

490. (3) Graduating Project

(Not offered 1967-68).

*Approved for credit in the Faculty of Arts and Science.

†Approved for credit in the Faculty of Education.

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.

Degrees may be taken in one department, school or faculty, or in a combination of them.

Members of the Senate Committee on Graduate Studies are:

Chairman, (Ex-officio)

M. H. Scargill, Chairman of the School of Graduate Studies and Head,
Department of Linguistics

Representing Education

G. P. Mason, Faculty of Education

D. C. Thomas, Faculty of Education

Representing the Humanities

Ann Saddlemyer, Department of English

J.-P. Vinay, Department of Linguistics

Representing the Sciences

D. V. Ellis, Department of Biology

R. M. Pearce, Department of Physics

Representing the Social Sciences

G. W. Bertram, Chairman, Department of Economics and
Political Science

C. W. Tolman, Department of Psychology

Ex-officio

D. W. Halliwell, Head Librarian

F. T. Tyler, Dean, Faculty of Education

A. J. Wood, Dean, Faculty of Arts and Science

Secretary, (Ex-officio)

R. J. P. Ferry, Admissions and Awards Officer

REGULATIONS

The regulations stated below 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.

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 Science, Master of Education,* and Doctor of Philosophy. Degrees may be taken in one department, 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."

*The degree of Master of Education is not offered at the present time.

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 of Graduate Studies about their proposed programmes of studies as unclassified students.

NOTE 3: Overseas students should not make provision to travel to Canada until they have actually been admitted and have evidence of financial resources to allow them to pursue their studies here.

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 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 1: Except as specified in item 2 above, it is the student's responsibility to request the School of Graduate Studies to change his category.

NOTE 2: A full-time graduate student is a student registered in the School of Graduate Studies in more than nine units of work (course, thesis or dissertation, or both) in any twelve-month period. A part-time graduate student is a student registered in the School of Graduate Studies in not more than nine units of work (courses, thesis or dissertation, or both) in any twelve-month period.

NOTE 3: No part-time graduate student may offer for credit more than six units of course work at the graduate level (courses numbered 500 and higher) in any one winter session.

NOTE 4: No graduate student may take more than three units of course work at the graduate level in any one summer; moreover, he may not take an undergraduate level course in the same summer in which he does take a graduate course.

NOTE 5: No graduate student may offer for credit more than 18 units of work (courses, thesis or dissertation, or both) in any one twelve-month period.

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 May 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 normally 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 of Graduate Studies.

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 18 units of credit for courses, or thesis, or both, may be granted in any twelve-month period during which a student is registered full time at the University of Victoria. A maximum of nine units of credit for course work or thesis, or both, may be granted in any twelve-month period during which a student is not registered full time at the University of Victoria.

NOTE 2: A student with an honours baccalaureate degree may 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 or school or faculty 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 or school or faculty. The Committee shall recommend to the School of Graduate Studies 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 or school or faculty, 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.

NOTE: A maximum of 18 units of credit for course work or dissertation, or both, may be granted in any twelve-month period during which a student is registered full time at the University of Victoria. A maximum of nine units of credit for course work or dissertation, or both, may be granted in any twelve-month period during which a student is not registered full time at the University of Victoria.

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 the 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 Chair-

man 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 the examinations.

NOTE: 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 200 - 204, 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

In the year 1967-68 the Department is offering studies in the one-year and two-year programmes for the Master of Arts degree. Facilities are available for programmes in the following areas:

British History
Western Canadian History
European Intellectual History

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 degrees of M.Sc. and 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 a digital computer.

Nuclear Magnetic Resonance — Nuclear spin relaxation in liquids and solids.

TRI-U Cyclotron — Joint design study of 500 MeV, 100 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.

An outline of the Departmental regulations regarding the suggested course of graduate studies and examinations is available from the Departmental secretary.

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

Evening Division

EVENING DIVISION

Director: ROBERT T. D. WALLACE, M.A.

Assistant to the Director: CORA E. BROWNE, B.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 in person or by mail through the Evening Division.

Applications must be received in the Registrar's Office by September 7. *Registration without penalty must be completed by September 15.* On and after September 16 a late registration fee of \$10.00 will be charged. No registrations will be received, even upon payment of the late fee, after September 23.

In addition to the regular credit courses, the Evening Division offers non-credit courses of general interest. The courses to be offered in the Fall of 1967 will be announced during the late summer, and registration by mail or in person must be completed early in September.

The following courses will be offered by the Evening Division for the Session 1967-68.

Classes beginning at 4:30 p.m., two days a week:

FACULTY OF ARTS AND SCIENCE

- Anthropology 200 (3) **Introduction to Anthropology**
- Economics 200 (3) **Principles of Economics**
- English 100 (3) **Literature and Composition**
- English 200 (3) **A Survey of British Literature from the Elizabethan to the Romantic Period**
- English 201 (3) **Studies in Literature**
- English 300 (3) **English Composition**
- English *
- English *
- French 140 (3) **Elementary French**
- Geography 311 (3) **The Geography of Economic and Cultural Change**
- German 408 (3) **German Poetry from 1830 to the Present**
- History 420 (3) **The Evolution of the Canadian Constitution**
- Mathematics 220 (3) **Differential and Integral Calculus**
- Mathematics 222 (3) **Algebra and Geometry**
- Mathematics 330 (3) **Calculus II**
- Sociology 200 (3) **Introduction to Sociology**

*Two other senior English courses will be offered at 4:30; particulars available later.

FACULTY OF EDUCATION

- Education 331 (3) **Psychology of Childhood**
- Education 407 (3) **Introduction to the Study of Exceptional Children**
- Education 415 (3) **Developmental Reading**
- Education 461 (3) **Educational Diagnosis and Remedial Instruction**

Education 470 (3) **Educational Sociology**

Education 403 (3) **Social Psychology of School and Classroom**

SCHOOL OF FINE ARTS

Art 340 (3) **Renaissance and Baroque Art in Western Europe**
(Approved for credit in the Faculty of Arts and Science.)

Art 201 (3) **Painting I**
(Approved for credit in the Faculty of Education.)

Art 301 (3) **Painting II**
(Approved for credit in the Faculty of Education.)

Art 401 (3) **Painting III**
(Approved for credit in the Faculty of Education.)

Classes beginning at 7:30 p.m., two evenings a week:

FACULTY OF ARTS AND SCIENCE

English 100 (3) **Literature and Composition**

English 200 (3) **A Survey of British Literature from the Elizabethan to the Romantic Period**

English 201 (3) **Studies In Literature**

English *

English *

History 314 (3) **Europe from Westphalia to Waterloo**

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

Psychology 100 (3) **Introduction to Psychology**

Psychology 220 (3) **Dynamics of Behaviour**

*Two other senior English courses will be offered at 7:30; particulars available later.

SCHOOL OF FINE ARTS

Art 403 (3) **Ceramics II**

Theatre 120 (3) **Acting I**
(Approved for credit in the Faculty of Education.)

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 the 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 the University of Victoria.

AGRICULTURE

Suggested courses:

Biology 150
Chemistry 124 and 121
English 100
Mathematics 130
An elective

APPLIED SCIENCE

Suggested courses:

English 100
Mathematics 130
Chemistry 124 and 121
Physics 101
An Arts elective

ARCHITECTURE

Suggested courses:

English 100, 200
Mathematics 130
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: First Year Arts and Science or its equivalent with standing in 15 units (including English 100 and Mathematics 130).

DENTISTRY

Suggested courses:

English 100
Mathematics 130
Chemistry 124 and 121
Biology 150 or Physics 101
An elective (Language recommended)

HOME ECONOMICS

Suggested courses:

English 100
Chemistry 124 and 121
Physics 103, if Physics 91 not
already taken
Mathematics 130
Biology 150
Psychology 100

FORESTRY

Suggested courses:

Biology 150 or Physics 101
Chemistry 124 and 121
English 100
Mathematics 130
One additional course

LAW

Suggested course:

First Three Years Arts and Science

MEDICINE

Suggested courses:

English 100
 Mathematics 130
 Chemistry 124 and 121
 Physics 101 or Biology 150
 An option

NURSING (BSN)

Suggested courses:

English 100
 Chemistry 124 and 121
 Mathematics 130
 Biology 150
 Approved elective

PHARMACY

Chemistry 124 and 121
 English 100
 Mathematics 130
 Physics 101 or Biology 150
 Approved elective

PHYSIOTHERAPY

Chemistry 124 and 121
 English 100
 Psychology 100
 Mathematics 130
 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 130
 Biology 150
 Chemistry 124 and 121
 An elective

Awards and Financial Aid

AWARDS AND FINANCIAL AID

GENERAL REGULATIONS

All inquiries concerning material in this section should be directed to the Awards Officer, Registrar's Office.

All awards adjudicated by the University of Victoria are administered by the Senate Committee on Awards.

To be eligible for a scholarship offered by the University, a student must take a full year's programme (this shall be at least fifteen units) which must include the required courses for the year in which the student is registered. Where credit has already been obtained in a required course, however, another may be substituted with the permission of the Dean of the Faculty or Director of the School concerned, except that grades of compulsory courses must be included in the required number of units for the year and degree in which the student is registered.

A student who has a failure in one of the required courses for the year will not be eligible for an award based on academic merit. Except where terms and conditions of an award specifically state otherwise, award winners must return to the University of Victoria in the next regular session and must enrol in a full programme.

For general proficiency awards, the standing of students who are registered in more than 15 units of courses will be determined on the basis of the grades of the best 15 units of courses, except that grades of compulsory courses will be included in computing the overall standing.

The University reserves the right to limit the amount of money retained by a student and, if necessary, to reassign awards to other students by reversion. In cases of reassignment by reversion, the names of the original recipients will be included in the published list of awards.

Where applications are necessary, the deadline for submission of application forms is April 30, unless otherwise stated.

Awards may be withheld or cancelled for any of the following reasons: lack of suitable candidates; failure to meet terms and conditions of award; withdrawal from the University; unsatisfactory conduct, attendance or progress; withdrawal of the award by the donor.

Normally, monies will be disbursed by the Bursar's office in two instalments, the first after registration and the second in January. In the disbursement of these funds payment of tuition fees will be given first priority.

If for any reason recipients are not eligible for the second term disbursement, funds will be reassigned, by reversion, to other students. In such cases, the published list of award winners will show only the names of the original recipients.

Other awards, such as medals or book prizes, if not presented directly by donors or their agents, will be forwarded to the winners upon receipt.

DEFINITIONS

- (a) An award is any scholarship, fellowship, bursary, medal or prize.
- (b) A scholarship is a monetary award based on academic merit. It is normally offered at the undergraduate level.
- (c) A fellowship is a monetary award based on academic merit. It is normally offered at the graduate level.
- (d) A bursary is a monetary award based on need and reasonable academic standing.
- (e) A medal is an award based on academic merit.
- (f) A prize is an award in the form of cash or of some tangible object such as a book, based on academic merit.

NOTE: None of the above awards requires that the student discharge any duties for the University or any other agency. This applies to awards administered by the University of Victoria only.

LIST OF AWARDS

The sections of the Calendar which follow show awards grouped under certain headings.

Section 1: Entrance awards. See pages 224 to 234.

Section 2: Government of British Columbia awards. See page 235.

Section 3: University bursaries requiring application. See page 236.

Section 4: Awards for which no application is necessary: selection of recipients is made by the Senate Committee on Awards. See pages 237 to 243.

Section 5: Undergraduate awards for which application must be made to the Senate Committee on Awards. See pages 244 to 246.

Section 6: Undergraduate awards administered by other institutions and organizations. See pages 247 to 251.

Section 7: Awards for graduate study. See pages 252 to 257.

Section 8: Loan funds. See page 258.

SECTION 1

ENTRANCE AWARDS

The following scholarships are open to students who have completed University Entrance and are proceeding to the University of Victoria

ENTRANCE AWARDS ADMINISTERED BY THE UNIVERSITY OF VICTORIA

Applications for the following six awards may be obtained from the Awards Officer, University of Victoria, Victoria, B.C., and must be returned before June 30.

PRESIDENT'S ENTRANCE SCHOLARSHIPS — Five scholarships of \$500 each for British Columbia secondary school graduates who are entering the University of Victoria in September 1967. Awards will be based upon high standing in the matriculation record of students in June 1967. Recipients will be selected by the Committee on Awards and awards will be announced shortly after the release of the examination results in the summer.

CANADIAN UNION OF PUBLIC EMPLOYEES SCHOLARSHIPS — The C.U.P.E. will provide annual scholarships of \$100 each to five promising and deserving students who will register in the First Year at the University of Victoria. Students must have obtained first class standing or a good second class in the Departmental Examinations in the Grade 12 Academic-Technical Programme. All other things being equal, preference will be given to sons or daughters of members of the Canadian Union of Public Employees. Recipients will be selected by the Committee on Awards in consultation with officials of School Districts 61 and 63.

THE HARBORD INSURANCE LTD. SCHOLARSHIP — Five hundred dollars (\$500) awarded annually to the most promising scholar leaving School District No. 61, entering the School of Fine Arts at the University of Victoria and intending to specialize in Music. Selection of the winner will be made by the Committee on Awards after consultation with the appropriate officials of School District No. 61.

THE ISLAND TUG AND BARGE LIMITED ANNUAL SCHOLARSHIP — One hundred and fifty dollars (\$150) will be awarded to the member of the Indian community of Vancouver Island who obtains the highest average in Grade XII examinations and enters first year at the University of Victoria.

SARA AND JEAN MACDONALD BURSARY FUND — Provides annual bursaries for worthy and deserving women students entering the University of Victoria from secondary schools. Selection is to be made by the Committee on Awards on the basis of financial need and recommendations from secondary schools.

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 \$300 each. These scholarships are available to students, writing the required Department of Education scholarship examinations in June, who are proceeding from Grade XII (Graduation on the Academic-Technical 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.

ENTRANCE AWARDS ADMINISTERED BY OTHER INSTITUTIONS AND ORGANIZATIONS

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.

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 the University of Victoria. Candidates for these scholarships must write the required scholarship examinations conducted in June by the Department of Education, B.C. The scholarships will be awarded to the 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 British Columbia, Vancouver 8, B.C. This application must be received by the University of British Columbia not later than May 15 and must contain the necessary details of family service with the Company. Before June 1 they must also complete and submit, through the school principal, the special form required by the Department of Education from all those writing the scholarship examinations.

BRITISH COLUMBIA FOREST PRODUCTS LIMITED BURSARIES — Bursaries to a total of \$5,500, 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 the University of Victoria. Awards will be made to students selected on the basis of their academic standing and need for financial assistance. No award will normally be made, however, to a candidate who obtains an overall average of less than C+ or who is required to write supplementals to obtain clear standing in a full year's work. Winners of the Company's Entrance Scholarships will not be permitted to receive a Company Bursary in the same year. All candidates must apply on the Special Bursary form, which may be obtained from the Dean of Inter-Faculty Affairs, University of British Columbia. This application must be received by the University of British Columbia not later than July 15 and must contain the necessary details of family service with the Company.

THE 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 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 Grades 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 British Columbia, Vancouver 8, B.C., must be submitted to the University of British Columbia, 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 the 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 \$1,500 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 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 British Columbia, in consultation with the Commanding Officer. Applications, on forms available from the Dean of Inter-Faculty Affairs, must be submitted to the University of British Columbia not later than July 15.

COMINCO DIAMOND JUBILEE HIGHER EDUCATION AWARDS — Cominco Ltd. offers awards each year to the sons, daughters, or wards of a person who is regularly employed by Cominco, or of a widow whose husband died while regularly employed by Cominco or of a Cominco pensioner or his widow to encourage students of good scholastic accomplishment to continue their education at an institution of higher learning beyond high school or senior secondary school. By recognizing and rewarding scholastic attainment by children of Cominco employees, these awards shall also serve to mark the Diamond Jubilee of Cominco. Cominco shall offer each year two classifications of awards to children of employees who are students enrolled in a high school or senior secondary school leaving course, preparatory to attendance at an institution of higher education. Class I awards, in the amount of \$500 each, shall be awarded to all students who make application and who have obtained an 86% or better standing, or corresponding letter-grade, in their high school leaving course. Class II awards, in the amount of \$350 each, shall be awarded to all students who make application and who have obtained an average in the 73% to 86% range, or corresponding letter-grade, in their high school leaving course. Applicants for these awards must be planning to attend an accredited Canadian university or college to pursue any course of study which will lead to a recognized degree, or must be planning to enroll at a recognized provincial institute of technology. In the case of the latter institutions, these must be accredited by or under the supervision of provincial departments of education and where the course of study would lead to a recognized diploma or certificate. Courses of study must be of at least two years duration and will not be applicable when a student would be in receipt of remuneration while also undertaking study. Complete details regarding eligibility as well as application forms may be obtained from: The Secretary, Education Awards Committee, Cominco Ltd., Trail, B.C.

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 British Columbia or the 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 British Columbia, 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 British Columbia 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 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 the 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 British Columbia, 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 British Columbia 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.

CROWN ZELLERBACH CANADA LIMITED SCHOLARSHIPS FOR TEACHER TRAINING — Seven scholarships of \$2,000 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 British Columbia or the 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 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 the University of Victoria. To be eligible for consideration a candidate must have an overall average of at least 70% in the subjects of the grade in which he or she is registered. Candidates in Grade 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 British Columbia, in consultation with the Federation, from those who so qualify. In the final selection, a major factor will be the financial circumstances of applicants and their families. All candidates must apply to the University of British Columbia not later than May 15 by completing the "General Application for Scholarship" form. This form may be obtained from the Dean of Inter-Faculty and Student Affairs, University of British Columbia, Vancouver 8, B.C. Applications should contain details of family service with the Federation and other pertinent information.

THE GRAND LODGE MASONIC BURSARIES — The Grand Lodge of Antient Free and Accepted Masons of British Columbia annually offers bursaries in the range of \$200 to \$500 each to the sons, daughters, and legal wards of active members of Masonic Lodges in British Columbia or of deceased members who, at the time of death, were active members of these Lodges. The purpose of these bursaries is to give assistance to students who, without financial aid, would find it impossible or difficult to continue their education. Selection of winners will be made by the University of British Columbia from applicants with satisfactory academic standing who are entering undergraduate studies in the first or second year at the University of British Columbia, or the University of Victoria in a full programme leading to a degree in any field. In order to be considered, a candidate must obtain from the office of the Dean of Inter-Faculty Affairs, University of British Columbia, Vancouver 8, B.C., a Special Bursary Application form. The completed application must be received at the University of British Columbia not later than July 15. If the applicant is the son, daughter, or legal ward of a member of the Lodge the application must be accompanied by a letter giving the name and address and details of the lodge with which the applicant's immediate family is or has been associated.

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 the University of Victoria or the University of British Columbia.

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 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 British Columbia or the University of Victoria. Students who wish to compete for these 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 British Columbia, Vancouver 8, B.C. The completed application must be received at the University of British Columbia by May 15. The donors reserve the right to withhold awards if the academic standing of candidates is not sufficiently high or to re-award scholarships if winners receive other scholarships of substantial value.

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 the required 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 or the 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.

MacMILLAN BLOEDEL LIMITED COMMUNITY SCHOLARSHIPS — Nine scholarships of \$500 each, one in each of School Districts 65 (Duncan-Cowichan), 67 (Ladysmith-Chemainus), 68 (Nanaimo), 69 (Qualicum), 70 (Alberni), 79 (Ucluelet-Tofino), and 48 (Howe Sound); and two in School District 47 (Powell River), are offered by MacMillan Bloedel 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 Limited. Further information may be obtained from the Principal of the School.

MacMILLAN BLOEDEL LIMITED — SCHOLARSHIPS TO DEPENDENTS OF EMPLOYEES — Ten scholarships of \$500 each awarded to dependents of employees of MacMillan Bloedel Limited and subsidiary Companies. These scholarships are open to students beginning their studies at any recognized University in Canada or the United States and who are legal dependents of employees of the Company or its subsidiaries. Awards will be made on the basis of academic ability and potential leadership as indicated by grade achievements in Grades XI and XII and participation in school activities. Winners will be selected by a committee of three, two from the Company and one from the British Columbia Department of Education. Application forms, which must be submitted by May 31 each year, may be obtained from the Manager or Personnel Supervisor at each operating Division, or from the Secretary, Scholarship Committee, MacMillan Bloedel Limited, 1199 West Pender Street, Vancouver, B.C.

MEDICINE HAT NEWS SCHOLARSHIPS — Four scholarships, each valued at \$150 are offered annually. Two are available to carriers and former carriers of the *News*; two, to children of employees of the *News*. In each case, one is tenable at a university or accredited junior college, and one at an accredited technical institute. Selection will be based on school performance. The purpose is to help young men and women make a start in university or technical education. Application forms are obtainable from The Medicine Hat *News*, Medicine Hat, Alberta, and must be returned 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 British Columbia or the University of Victoria, with the intention either of following a permanent career in the Royal Canadian Navy or following a course of study which, coupled with such person's past associations, will qualify such person as potential personnel for the Royal Canadian Navy in times of national emergency. Preference will be given to present or former members of a cadet force, of a reserve force or of the permanent force, or the sons or daughters of any Commissioned Officer, Warrant Officer, Rating or man who has served or is now serving in the British Commonwealth naval forces or Merchant navies. Awards will be made on the basis of combined academic standing and need. These loans are repayable without interest within eighteen months after graduation. If by the due date the student has joined the permanent force, the loan may be cancelled in its entirety; if he has joined the reserve force 50% of it may be cancelled. Applications should be filed not later than October 15 with the Naval Officers' Association of British Columbia, Box 823, Station A, Vancouver, B.C.

NAVAL OFFICERS' ASSOCIATION OF BRITISH COLUMBIA SCHOLARSHIPS — Several scholarships of amounts up to \$250 each, provided by the Naval Officers' Association of British Columbia are offered to students beginning or continuing studies at the University of British Columbia or the University of Victoria with the intention either of following a permanent career in the Royal Canadian Navy or following a course of study which, coupled with such person's past association, will qualify such person as potential personnel for the Royal Canadian Navy in times of national emergency. Preference will be given to present or former members of a cadet force, of a reserve force or of the permanent force, or the sons or daughters of any Commissioned Officer, Warrant Officer, Rating or man who has served or is now serving in the British Commonwealth naval forces or Merchant navies. Awards will be made on the basis of all-round proficiency in the combination of academic studies, need and present or former interest in or association with a cadet force, reserve force or permanent force. Applications should be filed not later than October 15 with the Naval Officers' Association of British Columbia, Box 823, Station A, Vancouver, B.C. Winners of these awards are not precluded from accepting other awards which they may be offered.

THE RETAIL WHOLESALE & DEPARTMENT STORE UNION LOCAL 535 BURSARY — This bursary of \$250 is offered by the Retail Wholesale & Department Store Union Local 535 to sons, daughters, and legal wards of active members of the Union in good standing. It is open in competition to applicants who are proceeding from Grade XII or Grade XIII to begin studies at the University of British Columbia, the University of Victoria, or Simon Fraser University, in a full programme leading to a degree in any field. To be eligible for consideration a candidate must have satisfactory academic standing (normally an overall average of at least 65% in Grade XII or XIII). In the selection of the winner, the basic factor will be the financial need of the candidates and their families. Those who wish to apply for this bursary must obtain the University Bursary Form from Dean Walter H. Gage, University of British Columbia, Vancouver 8, B.C. The completed application must be received by him not later than July 15. The winner will be selected in consultation with the Union.

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 the University of Victoria. Candidates for these scholarships must (a) write the required 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 British Columbia. 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.

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.

STANDARD OIL COMPANY OF BRITISH COLUMBIA LIMITED ENTRANCE SCHOLARSHIP — Standard Oil Company of British Columbia Limited offers a scholarship worth \$2,000 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 the University of Victoria or other approved Canadian university of recognized standing, in a full course leading to a degree. Candidates must write the required scholarship examinations for High School Graduation on the Academic-Technical Programme conducted in June by the Department of Education, Victoria, B.C. The scholarship will normally be awarded to the eligible applicant obtaining highest standing in these examinations. Should this applicant win another award, however, the scholarship may be given, at the discretion of the University of British Columbia, to the eligible candidate with next highest standing. No award will be made to a candidate with an overall average less than 75%. General regulations of the University of British Columbia 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 British Columbia. The student must apply by letter, to be received by Dean Walter H. Gage, University of British Columbia, 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 \$2,000 to children or wards of employees or annuitants of the Standard Oil Company of British Columbia, or of deceased employees who die while in the employ of the Company or as annuitants of the Company, and who have or had not less than one year of service with the Company. It will be open in competition to students proceeding in the fall to the First Year at the University of British Columbia or the University of Victoria or other approved Canadian university of recognized standing, in a full course leading to a degree. Candidates must write the required scholarship examinations for High School Graduation on the Academic-Technical Programme conducted in June by the Department of Education, Victoria, B.C. The scholarship will normally be awarded to the eligible applicant obtaining highest standing in these examinations. Should this applicant win another award, however, the scholarship may be given, at the discretion of the University of British Columbia, to the eligible candidate with next highest standing. No award will be made to a candidate with an overall average less than 70%. General regulations of the University of British Columbia are also applicable to this scholarship. The winner of this award will receive \$500 during the first year of

attendance at the University, and is eligible for renewals of \$500 a year for three further years. Each renewal is subject to maintenance of standing satisfactory to the University of British Columbia. The student must apply by letter to be received by Dean Walter H. Gage, University of British Columbia, 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 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 British Columbia or the 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 British Columbia, Vancouver 8, B.C., must be received at the University of British Columbia not later than July 15.

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 the 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 on the Academic-Technical Programme conducted in June by the Department of Education, B.C. Applicants must write the required 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 British Columbia. A student who wishes to be considered for one of these scholarships must apply by letter to Dean Walter H. 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 the 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 on the Academic-Technical Programme, conducted in June by the Department of Education, B.C. All applicants must write the required examinations in the scholarship subjects prescribed by the regulations of the Department and the University. An applicant will be considered only if he obtains an overall average of at least 75%. The scholarship will be awarded to the eligible applicant who, in the opinion of the University of British Columbia, is the most outstanding in combining high scholastic attainment with achievement in one or more areas such as service to the school and community, writing, drama, fine arts; debating and public speaking; sports. A winner who, in successive years of his undergraduate course, obtains and maintains First Class standing (or ranks in the top 10% of the Year and Faculty in which he is registered) will be eligible for renewals of \$500 a year until graduation, not exceeding a total of five payments in all. All candidates must complete the "General Application for Scholarship" form, obtainable from Dean Walter H. Gage, University of British Columbia, Vancouver 8, B.C. The completed applica-

tion, accompanied by the service certificate of the Vancouver *Sun* must be received by the University of British Columbia not later than May 15. Candidates will be judged on the basis of their examination grades, their personal letters (see application form for details), and letters of recommendation from their references. The winner of this scholarship, while not also permitted to hold one of the Vancouver *Sun* Scholarships for Carriers, may accept other awards offered to him.

VICTORIA MECHANICAL INDUSTRY PROMOTION FUND SCHOLARSHIP — Provides a scholarship of three hundred dollars (\$300) each year for the session 1967-68 and 1968-69. The award is to be based on academic standing only with no reference to financial status or income. The award is open to students entering first year at the University of Victoria. Applicants must be sons, daughters or legal dependents of members of the United Association of Plumbers and Steamfitters, Local 324, who are employed by firms who are contributors to the Victoria Mechanical Industry Promotion Fund as provided in the Collective Agreement. Applicants may also be sons, daughters, or legal dependents of employers who employ members of the United Association of Plumbers and Steamfitters, Local 324 and who are contributors to the Victoria Mechanical Industry Promotion Fund. Further information may be obtained from Mr. E. H. McCaffery, Secretary Manager, B.C. Branch, Canadian Plumbing and Mechanical Contractors Association, 1128 West Georgia Street, Vancouver 5, B.C.

VICTORIA WOMEN'S CANADIAN CLUB SCHOLARSHIPS — (1) One hundred and fifty dollars (\$150) awarded to the female student attending a public high school in Greater Victoria School District (No. 61) who makes the highest standing in the Departmental Examinations, held in June, and registering for a full first year course in the University of Victoria or the University of British Columbia, the following September.

(2) One hundred and fifty dollars (\$150) awarded to the male student in Greater Victoria School District making the highest standing in the same examinations and under the same conditions. Should the student, in either case, be awarded a scholarship from any other source, the Club Scholarships shall then revert to the student having the next highest standing.

THE WESTMINSTER REGIMENT ASSOCIATION SCHOLARSHIP — 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.

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 British Columbia 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 British Columbia on the basis of academic standing and need for financial assistance. To be considered, a candidate must (a) write the standard departmental examinations conducted in June by the Department of Education, B.C. and obtain an overall average of at least 65% in these examinations; (b) submit the special bursary form to the University of British Columbia not later than July 15. This form may be obtained after June 1 from the Dean of Inter-Faculty and Student

Affairs, University of British Columbia, Vancouver 8, B.C. Winners will be considered for renewals of these bursaries for their second, third and fourth years of University attendance (up to graduation). Renewals each year, however, are not automatic and will be made only to those who file a new application, pass in all subjects with a minimum overall average of B-, and need financial assistance.

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 the 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.

THE YARROWS LIMITED ENTRANCE SCHOLARSHIP — A scholarship of \$1,000 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 British Columbia. 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.

SECTION 2

GOVERNMENT OF BRITISH COLUMBIA AWARDS

GOVERNMENT 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 the 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 1967-68 will be considered on the basis of standing received in the final examinations (excluding supplementals) in a full programme for the session 1966-67 in a full year's work. Candidates in the University of British Columbia or the 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 fulfil 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 the University of Victoria must apply through the University, applications to arrive before *July 1*. High School students must apply through their schools before June 1.

Students already registered at the University of Victoria must request application forms from the Registrar's Office; these forms are not mailed automatically with statements of marks.

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 the 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 the 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 4*. Application forms may be obtained from the Department of Education, Victoria, B.C., from the University of Victoria, or, where the student is attending school, from the principals of senior high schools.

SECTION 3

UNIVERSITY 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 for the first term will be acceptable only after registration and must be submitted by October 1. Applications for the second term must be submitted before January 5. Application forms are available in the Registrar's Office.

Completed application forms should be returned to:

The Awards Officer,
Registrar's Office,
University of Victoria,
Victoria, B.C.

SECTION 4

AWARDS FOR WHICH NO APPLICATION IS NECESSARY

The awards listed in this section are open only to students who attended the University of Victoria in the 1966-67 regular session.

FOR HEADS OF THE GRADUATING CLASSES

THE GOVERNOR-GENERAL'S MEDAL — The Governor-General's Medal is awarded annually to the candidate in the Faculty of Arts and Science, registered for the B.A. or B.Sc. degree, who stands at the head of the graduating class on the basis of the degree average.

DR. MAXWELL A. CAMERON MEMORIAL MEDALS AND PRIZES — The British Columbia Teachers' Federation annually offers a silver medal and a prize of fifty dollars (\$50) to the student completing the final year of the B.Ed. degree (secondary programme), who achieves the highest standing in general proficiency with a first-class standing in practice teaching. A similar award is made to a student in the B.Ed. elementary programme. Selection of the students is left to the Faculty of Education, University of Victoria.

UNDERGRADUATE AWARDS

***THE KATHLEEN AGNEW SCHOLARSHIPS** — Two scholarships, valued at one hundred and fifty dollars (\$150) each, are donated for the purpose of stimulating the study of the History of Canada.

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.

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.

***THE J. ALAN BAKER MEMORIAL SCHOLARSHIP** — Five hundred dollars (\$500) awarded annually to a deserving and promising student in an honours programme and continuing into the third or fourth year at the University of Victoria.

BETA SIGMA PHI SORORITY CITY COUNCIL SCHOLARSHIP — One hundred dollars (\$100) to be awarded annually to a promising and deserving woman student entering third or fourth year in Arts and Science or Education at the University of Victoria.

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.

THE BRITISH AMERICA PAINT COMPANY SCHOLARSHIP — One hundred dollars (\$100) awarded annually to the leader of second year Chemistry.

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY SCHOLARSHIPS — Six scholarships of two hundred and fifty dollars (\$250) each to be awarded for the 1967-68 season for general proficiency to students who have completed at least one year of studies at the University of Victoria. Winners must continue university studies in the following regular session.

*Administered by the University of Victoria Foundation.

*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 BRITISH COLUMBIA TELEPHONE COMPANY SCHOLARSHIP — One hundred dollars (\$100) awarded to a student of first or second year for excellence in Physics. The winner must continue university studies.

CAMOSUN GYRO CLUB 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.

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.

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.

*THE CLEARIHUE BURSARY — Three hundred dollars (\$300) awarded annually by Dr. and Mrs. J. B. Clearihue to a promising and deserving student in the Faculty of Education, who shows promise and who has at least a good second class average.

THE COMITAS CLUB SCHOLARSHIP — Fifty dollars (\$50) to be awarded to a promising and deserving student from first, second or third year in the Faculty of Education who is returning for the following year.

*THE EDGAR FERRAR CORBET SCHOLARSHIP — Two hundred and fifty dollars (\$250) to be awarded annually for proficiency in English to a second year student who is a graduate of a British Columbia public high school and who will be majoring or honouring in English in the third year.

*MATTHEW COWAN ANNUAL SCHOLARSHIP — 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 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 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.

T. EATON COMPANY (Canada) LTD. SCHOLARSHIP — Two hundred dollars (\$200) awarded to a first year student of high standing in Mathematics 130 and, preferably, with a first-class average. The winner must continue at the University of Victoria.

PERCY H. ELLIOTT MEMORIAL SCHOLARSHIP — One hundred and thirty dollars (\$130) awarded to a student of outstanding merit and promise in one specific field of study, who has also a high general academic standing and qualities of character indicating worthiness to hold the scholarship. The scholarship is awarded, upon the recommendation of the Committee on Awards, to a student in the first or second year and, unless service in the Armed Forces intervenes, proceeding immediately towards a degree.

*Administered by the University of Victoria Foundation.

*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.

FACULTY WOMEN'S CLUB PRIZE — One hundred dollars (\$100) to be awarded to a deserving woman student continuing studies either at winter or summer session.

FRANCIS GOLD WRIST WATCH — To be presented each year by F. W. Francis, Ltd. to the student obtaining the highest average on the Sessional Examinations, with the provision that no student win it more than once.

*THE 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 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.

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 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.

*FREEMAN F. KING SCHOLARSHIP — Two hundred and fifty dollars (\$250) awarded to a student entering third or fourth year, preferably the latter, and preparing for a career in natural history, considered in a broad sense. The award is to be based on high academic standing and demonstrated interest in field studies, especially in terrestrial biology. The recipient will be selected from candidates recommended by Biology Department staff members.

KIWANIS SCHOLARSHIP — Two hundred and fifty dollars (\$250) awarded to a man student completing the first year and entering the second year at University of Victoria. Selection of the recipient to be made by the Kiwanis Club of Victoria in conference with the Faculty.

LEON J. LADNER B.C. HISTORY SCHOLARSHIPS — Two scholarships, one hundred dollars (\$100) to the best undergraduate student studying the History of British Columbia, and one hundred dollars (\$100) for the best graduating essay on the History of British Columbia.

THE LADY LAURIER CLUB SCHOLARSHIP — One hundred dollars (\$100) to be awarded annually by the Lady Laurier Club of Oak Bay to a worthy and deserving student entering fourth year at the University and undertaking a course in Political Science.

LIONS CLUB SCHOLARSHIP — One hundred dollars (\$100) awarded annually to the student obtaining the highest standing in Biology 150 and Chemistry 102 or 124, and continuing similar work at the University of Victoria.

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.

*Administered by the University of Victoria Foundation.

MILLARD H. MOONEY MEMORIAL LIONS CLUB FINE ARTS SCHOLARSHIP — One hundred dollars (\$100) awarded annually to a worthy and talented student registered in the School of Fine Arts in first, second or third year, on condition that the student return to the University of Victoria the following year.

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 the University of Victoria.

THE OAK BAY BUSINESS AND PROFESSIONAL WOMEN'S CLUB BURSARY — One hundred dollars (\$100) to be awarded annually to a woman student who attains honours standing in History 303 — History of the Canadian West.

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.

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 the University of Victoria or at any other university.

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.

***THE ALAN PRATT MEMORIAL SCHOLARSHIP** — One hundred dollars (\$100) awarded annually to a student with broad interests completing second year.

THE PRESIDENT'S SCHOLARSHIPS — A number of scholarships up to the value of \$500.00 each will be awarded annually by the President upon the advice of the Committee on Awards. 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.

THE PROFESSIONAL INSTITUTE OF THE PUBLIC SERVICE OF CANADA SCHOLARSHIP — One hundred dollars (\$100) awarded annually to a worthy and needy first year student returning to the University of Victoria for the second year.

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 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.

RITHET CONSOLIDATED LIMITED BURSARY — One hundred dollars (\$100) to be offered to a promising student registered at the University of Victoria and continuing academic studies.

ROSE'S LIMITED JEWELLERS WATCH — To be awarded annually to the leading student in the Faculty of Education at the University of Victoria.

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 the University of Victoria or at some other recognized university.

*Administered by the University of Victoria Foundation.

*ROYAL INSTITUTION AND FRANK EATON MEMORIAL SCHOLARSHIP— Fifty dollars (\$50) awarded to the student taking the highest standing in English of the second year.

THE MADAME SANDERSON MEMORIAL SCHOLARSHIP— Fifty dollars (\$50) offered annually to a promising student for excellence in English and French of the second year.

*THE EDWARD J. SAVANNAH MEMORIAL SCHOLARSHIP — 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 the University of Victoria or elsewhere.

THE NORA LUGRIN SHAW MEMORIAL SCHOLARSHIP — 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 ANDREW SHERET, LTD. SCHOLARSHIP — One hundred and fifty dollars (\$150) per year for the sessions 1966-67, 1967-68, 1968-69, to be awarded to students achieving high academic standing and continuing their education at the University of Victoria.

THE A. W. SHERET SCHOLARSHIP — One hundred and fifty dollars (\$150) awarded annually to a promising student with high academic standing who is continuing studies at the University of Victoria.

SPECIAL SCHOLARSHIPS IN BIOLOGY — A number of scholarships are available to students enrolled in courses in the Department of Biology, on the recommendation of the faculty.

UNIVERSITY EXTENSION ASSOCIATION OF VICTORIA SCHOLARSHIP — One hundred dollars (\$100) to be awarded to a worthy and promising student who is returning to the University in the following year.

THE UNIVERSITY OF VICTORIA FACULTY ASSOCIATION SCHOLARSHIP — Two hundred dollars (\$200) to be awarded annually to further the education of a student of good academic standing.

UNIVERSITY WOMEN'S CLUB SCHOLARSHIP — Two hundred dollars (\$200) awarded to the woman student taking the highest standing in her first year of Arts and Science, and continuing her course in the second year at the University of Victoria or at any other university, provided the course desired is not available at this University. When a student wishes to attend a university outside Canada, the reasons for such attendance should be submitted to the Executive of the University Women's Club for approval.

THE VICTORIA COUNCIL, UNITED COMMERCIAL TRAVELLERS OF AMERICA SCHOLARSHIP — One hundred dollars (\$100) awarded annually to the leading student of the Humanities in the second year. The winner must continue university studies.

VICTORIA GYRO CLUB SCHOLARSHIP — Two hundred dollars (\$200) awarded annually to a male student completing his first year at the 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.

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.

*Administered by the University of Victoria Foundation.

VICTORIA MUNICIPAL CHAPTER, I.O.D.E. SCHOLARSHIP — One hundred dollars (\$100) awarded to an outstanding student in Canadian History in any year.

VICTORIA NATURAL HISTORY SOCIETY SCHOLARSHIP — 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 1967-68.

VICTORIA ROTARY CLUB SCHOLARSHIP — Two hundred and fifty dollars (\$250) to be awarded to the student taking the highest standing in first year English.

VICTORIA ROTARY WOMEN'S AUXILIARY CENTENNIAL SCHOLARSHIP — One hundred dollars (\$100) to be awarded to a promising and deserving student with a high academic standing who is continuing studies at the University of Victoria.

*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 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.

THE WESTON BAKERIES, LIMITED, SCHOLARSHIP — Two hundred and fifty dollars (\$250) to be awarded annually to a deserving student completing first or second year and continuing University studies.

THE WOODS TRUST SCHOLARSHIPS — Awarded annually to promising students at the University of Victoria who intend to pursue studies as undergraduates at the university or as post-graduate students at other universities or educational institutions or at any industrial or commercial concern engaged in the field of electrical engineering or in any allied field in the physical sciences. The scholarships are of varying amounts.

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 XI NU CHAPTER, BETA SIGMA PHI SORORITY ANNUAL BURSARY — Twenty-five dollars (\$25) to be awarded to a promising and deserving woman student in the third year of a course or courses in Philosophy, Psychology, Sociology, and proceeding to further university work, for books to be chosen in consultation with the winner.

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.

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.

*Administered by the University of Victoria Foundation.

ADDITIONAL AWARDS

The following awards are made annually to students for distinguished accomplishment:

- Adelphi Book Shop Prize
- Austrian Government Book Prizes
- B.C. Historical Association Book Prizes
- *The Denton Memorial Book Prize
- Gwen Downes Memorial Book Prize
- The French Government Book Prizes
- French Government Medal
- Government of the Federal Republic of Germany
Book Prizes
- The Marionette Book Shop Book Prize
- The Spanish Government Book Prize
- G. B. Stark Memorial Slide Rule Prize

*Administered by the University of Victoria Foundation.

SECTION 5

UNDERGRADUATE AWARDS FOR WHICH APPLICATION MUST BE MADE AT THE UNIVERSITY OF VICTORIA

These awards are open only to students who attended the University of Victoria in the 1966-67 regular session. Application for these awards must be made before April 30, unless otherwise indicated, on forms available in the Registrar's Office.

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.

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.

The University will make the award of the Bursaries in consultation with The Foundation.

CANADIAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION AND RECREATION, INC. (GREATER VICTORIA BRANCH) — 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 Committee on Awards of the University before September 25 in each academic year.

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 secondary 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 of members of the C.U.P.E. In each case, the student must make application for these scholarships.

THE ARTHUR S. DENNY SCHOLARSHIP—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 Awards.

THE IBM-THOMAS J. WATSON MEMORIAL BURSARY PROGRAMME—IBM makes available \$1,000 annually to the University of Victoria and to other universities to provide undergraduate bursaries known as the IBM-Thomas J. Watson Memorial Bursary Programme. The objective of the programme is to provide financial assistance to needy undergraduates in any year of any faculty who have good academic standing. These bursaries may be held concurrently with other awards, provided the University is satisfied that a need exists. Apply to the Committee on Awards, University of Victoria.

ROBERT H. B. KER SCHOLARSHIP—One hundred and fifty dollars (\$150) awarded to a student in the first year who is proceeding to the second year either at the University of Victoria or a Canadian university. The applicant must have been a cadet (Sea, Army or Air) for at least two years during his last three years of high school. If there be no such applicant, the Committee on Awards may recommend for the award a student who has satisfactorily completed first or second year at the University of Victoria and is enrolled for service in one of the University training units. Application must be accompanied by a certificate from the Cadet unit concerned. Selection of the winner is to be made by Faculty in consultation with the donor, Mr. R. H. B. Ker.

THE LADIES PHARMACEUTICAL AUXILIARY (VICTORIA) BURSARY—A Bursary of fifty dollars (\$50), available annually to a first year Vancouver Island Science student continuing studies at the University of Victoria, or the University of British Columbia. Preference will be given to a student planning to take Pharmacy as a profession. The award is to be made by the Committee on Awards of the University of Victoria.

THE GLADYS LEDINGHAM PARENT-TEACHER AWARD—Seventy-five dollars (\$75) awarded annually to a graduate of the University of Victoria who enrolls in a Course of Library at a university. Selection of the winner will be made by the Committee on Awards which will consider the need for financial assistance as well as scholastic ability. Applications may be obtained from the Awards Officer, and must be returned by April 30.

THE BENNY NICHOLAS MEMORIAL AWARD—One hundred dollars (\$100) presented annually by the *Victoria Daily Times* to the student who submits the best piece of original writing, such as an essay, poem, play, article or other entry, to a selection committee appointed by the Committee on Awards. Entries may be submitted after January 1, but no later than March 31, to the Awards Officer, Registrar's Office.

THE HON. AND MRS. G. R. PEARKES PRIZE—Fifty dollars (\$50) to be awarded annually by the Hon. and Mrs. Pearkes to the student who has taken Service Training and has highest academic standing among those returning to the University of Victoria.

THE PETER POLLEN FORD SALES LTD. CENTENNIAL AWARDS—Five hundred dollars (\$500) each to be granted to two worthy and deserving students entering either undergraduate or postgraduate studies in Political Science or Economics. These awards represent the donor's project for the celebration of Canada's Centennial. The selection will be made by the Senate Committee on Awards. Applications must be submitted to the Awards Officer before April 30.

***THE OLIVER PRENTICE MEMORIAL—DOUGLAS ROTARY SCHOLARSHIP**—Awarded annually to a student of outstanding merit and promise and qualities of character indicating worthiness to hold the scholarship, who is planning a business career and is continuing his studies at a recognized university or is articulated to a chartered accountant, or C.G.A. Selection of the student is to be made by the Committee on Awards of the University of Victoria. Applications must be submitted before April 30.

*Administered by the University of Victoria Foundation.

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.

W. F. SAVALE PRIZES— To the value of one hundred dollars (\$100) awarded annually to Vancouver Island native or metis Indian, preferably males, who complete a full programme of studies in any year with a high standing.

UNITED NATIONS ASSOCIATION (VICTORIA BRANCH) SCHOLARSHIP — Two hundred and fifty dollars (\$250) awarded annually to a student entering third or fourth year with a high academic standing and demonstrated interest in the work of the United Nations or its agencies or in international relations.

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 Awards.

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 Committee on Awards of the University and the Victoria Medical Society Scholarship Committee, and will be paid through the Bursar of the medical school involved. The successful candidate will be notified in June. The award will be forfeited if the candidate has not entered medical school by January 1968, at the latest. Application forms are available from the Office of the Registrar and must be returned to the Awards Officer before March 15.

VICTORIA MUNICIPAL CHAPTER IMPERIAL ORDER OF THE DAUGHTERS OF THE EMPIRE SCHOLARSHIP— One hundred dollars (\$100) awarded annually to a first year student who is the child of a veteran of World War I or World War II. The recipient of the Scholarship must be recommended for general proficiency and worth by the Faculty, and must continue university work into the second year.

VICTORIA WEST PARENT-TEACHER ASSOCIATION BURSARY — Fifty dollars (\$50) to be awarded for the Session 1967-68 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 Committee on Awards by September 25, 1967.

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.

SECTION 6

UNDERGRADUATE AWARDS ADMINISTERED BY OTHER INSTITUTIONS AND ORGANIZATIONS

ASSOCIATION FOR RETARDED CHILDREN OF BRITISH COLUMBIA BURSARIES — Bursaries in various amounts are offered by the Association for Retarded Children of British Columbia to students in education, medicine, nursing, psychology, and social work in graduate or undergraduate programmes who: (a) are undertaking a full year, part-time or summer school course at a recognized University or College, and (b) intend to pursue studies related to mental retardation. Awards will be made on the basis of combined academic standing and need. Closing dates for submission of application forms are July 15 and December 15. Forms of application may be obtained from: Association for Retarded Children of British Columbia, Room 221, 119 West Pender Street, Vancouver 3, B.C.

THE BAY SERVICE AWARD — A two-year Service Award offered by the Bay (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 Bay on graduation. Under the terms of the award whereby tuition fees will be paid and employment with the Bay 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 the 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 January 31. Selection will be made by a representative of the Bay.

ELIZABETH BENTLEY EASTERN STAR SCHOLARSHIPS — The Order of the Eastern Star offers annually a number of scholarships to students entering the final year of undergraduate study and obtaining the highest average in all subjects in the two previous (not necessarily consecutive) scholastic years. Applications together with a photostatic copy of marks should be sent to the secretary of a Chapter by July 15. Further information may be obtained from Mrs. Hazel Freeze, Grand Secretary, 4767 Collingwood, Vancouver 8, B.C.

BRITISH COLUMBIA FOREST PRODUCTS LIMITED BURSARIES — Bursaries to a total of \$5,500, 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 the University of Victoria. Awards will be made to students selected on the basis of their academic standing and need for financial assistance. No award will normally be made, however, to a candidate who obtains an overall average of less than C+ or who is required to write supplementals to obtain clear standing in a full year's work. Winners of the Company's Entrance Scholarships will not be permitted to receive a Company Bursary in the same year. All candidates must apply on the Special Bursary form, which may be obtained from the Dean of Inter-Faculty Affairs, University of British Columbia, Vancouver, B.C. This application must be received by the University of British Columbia not later than August 1 and must contain the necessary details of family service with the Company.

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 GRAND LODGE MASONIC BURSARIES — The Grand Lodge of Antient Free and Accepted Masons of British Columbia annually offers bursaries in the range of \$200 to \$500 each with preference to the sons, daughters, and legal wards of active members of Masonic Lodges in British Columbia or of deceased members who, at the time of death, were active members of these Lodges. The purpose of these bursaries is to give assistance to students who, without financial aid, would find it impossible or difficult to continue their education. Selection of winners will be made by the University of British Columbia from applicants with satisfactory academic standing who are beginning or continuing undergraduate studies at the University of British Columbia or the University of Victoria in a full programme leading to a degree in any field. First preference will be given to applicants entering university from 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 British Columbia, Vancouver 8, B.C., a Special Bursary Application form. The completed application must be received at the University of British Columbia not later than 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 INDEPENDENT ORDER OF ODDFELLOWS BURSARIES — Six bursaries of \$250 each, provided by the Grand Lodge of British Columbia, I.O.O.F., the Grand Encampment, and the Rebekah Assembly, are available annually for students in any year of any faculty. The awards will be made by a joint committee consisting of two representatives from each of the Grand Bodies. All applicants must have direct connection with one or more branches of the Order, through parents, grandparents, or close relatives. Special consideration will be given to applicants with financial need. Full details of the awards and application forms may be obtained from the Secretary of any 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 INTERNATIONAL LONGSHOREMEN'S AND WAREHOUSEMEN'S UNION UNDERGRADUATE SCHOLARSHIPS — Four scholarships of \$250 each are offered to members, sons and daughters of members, in good standing, of the International Longshoremen's and Warehousemen's Union. They are open to students in attendance at the University of British Columbia, the University of Victoria, or Simon Fraser University who will continue in a full programme of studies in the next session in an undergraduate faculty. These scholarships will normally be awarded to the candidates with highest standing as determined by the results of the Final Sessional Examinations conducted in April by the named universities. Candidates must notify the Dean of Inter-Faculty and Student Affairs, University of British Columbia, Vancouver 8, B.C. by May 1 of their intention of competing. The donors reserve the right to withhold awards if the academic standing of candidates is not sufficiently high or to re-award scholarships if winners receive other scholarships of substantial value.

THE DR. H. B. KING MEMORIAL SCHOLARSHIP IN EDUCATION — This scholarship of \$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 in the Faculty of Education, University of Victoria or University of British Columbia. 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.

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.

THE MERRILL C. ROBINSON BURSARY — One thousand dollars (\$1000) provided by the Canadian National Institute for the Blind, British Columbia Division, to be awarded annually to assist a blind student attending the University of Victoria, Simon Fraser University, or University of Notre Dame at Nelson, in graduate or undergraduate studies. Applications are to be directed to the Bursary Committee, Canadian National Institute for the Blind, British Columbia Division, 350 East 36th Avenue, Vancouver 15, B.C.

NAVAL OFFICERS' ASSOCIATION OF BRITISH COLUMBIA BURSARY LOANS — Several bursary loans not exceeding \$300 each are offered to students beginning or continuing studies at the University of British Columbia, or the University of Victoria, with the intention either of following a permanent career in the Royal Canadian Navy or following a course of study which, coupled with such person's past associations, will qualify such person as potential personnel for the Royal Canadian Navy in times of national emergency. Preference will be given to present or former members of a cadet force, of a reserve force or of the permanent force, or the sons or daughters of any Commissioned Officer, Warrant Officer, Rating or man who has served or is now serving in the British Commonwealth naval forces or Merchant navies. Awards will be made on the basis of combined academic standing and need. These loans are repayable without interest within eighteen months after graduation. If by the due date the student has joined the permanent force, the loan may be cancelled in its entirety; if he has joined the reserve force 50% of it may be cancelled. Applications should be filed not later than October 15 with the Naval Officers' Association of British Columbia, Box 823, Station A, Vancouver, B.C.

NAVAL OFFICERS' ASSOCIATION OF BRITISH COLUMBIA SCHOLARSHIPS — Two scholarships of \$150 each, provided by the Naval Officers' Association of British Columbia are offered to students beginning or continuing studies at the University of British Columbia or the University of Victoria with the intention either of following a permanent career in the Royal Canadian Navy or following a course of study which, coupled with such person's past association, will qualify such person as potential personnel for the Royal Canadian Navy in times of national emergency. Preference will be given to present or former 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.

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.

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 a male Canadian citizen or British subject and have been ordinarily resident in Canada for at least five years by October 1, 1967. A Rhodes Scholarship is forfeited by marriage after election, or during a scholar's first year of residence. Thereafter a Rhodes Scholar may marry and retain his stipend if he is able to give appropriate assurances of support and accommodation for his wife.

A candidate must be at least 19 but under 25 years of age on October 1, 1968.

He must have completed two years of university study by October 1, 1968.

A candidate may compete in a province in which he is eligible under either (a) or (b) below:

(a) The province in which he is ordinarily resident. If he is ordinarily resident in the Northwest Territories he may compete in a province in which he is eligible under (b) or, if there is no such province, in Manitoba, Saskatchewan or Alberta. If he is ordinarily resident in Prince Edward Island he may compete in a province in which he is eligible under (b) or, if there is no such province, in Nova Scotia or New Brunswick.

(b) The province in which his university study has taken place, provided that if he is ordinarily resident outside Newfoundland he may not compete in Newfoundland.

In that section of the will in which he defined the general type of scholar he desired, Mr. Rhodes mentioned four groups of qualities, the first two of which he considered most important:

1. Literary and scholastic attainments;
2. Qualities of manhood, truth, courage, devotion to duty, sympathy, kindness, unselfishness, and fellowship;
3. Exhibition of moral force of character and of instincts to lead and to take an interest in his fellows;
4. Physical vigour, as shown by fondness for and success in outdoor sports.

Some definite quality of distinction, whether in intellect or character, or both, is the most important requirement for a Rhodes Scholarship, and it is upon this that Committees will insist. Success in being elected to office in student organizations may or may not be evidence of leadership in the true sense of the word. Mr. Rhodes evidently regarded leadership as consisting in moral courage and 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, 1967, and, if elected, to go to Oxford in October 1968. Further information and application forms may be had from Michael J. Brown, 7th floor, 602 West Hastings St., Vancouver 2, 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 the University of Victoria and the University of British Columbia 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 British Columbia 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 the University of Victoria and the University of British Columbia under the auspices of the Department of National Defence.

VANCOUVER FOUNDATION — Educational aid is offered through the Vancouver Foundation to a limited number of deserving students at institutions of higher learning in British Columbia. Applications will be judged on the basis of (a) academic standing; (b) contributions to the university, school or community; (c) financial need which cannot be satisfied through the usual avenues. Further information may be obtained by writing to the Executive Director, Vancouver Foundation, 1105 West Pender Street, Vancouver 1, B.C.

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.

THE WOMAN'S INSTITUTE MEMORIAL SCHOLARSHIP — A scholarship of \$250 will be awarded annually by the Woman's Institute of B.C. It is available to the daughter of a member of the Institute. The member must have been in good standing for at least three years. Preference is given to a student registering at the University of British Columbia toward a degree in Home Economics. Application by letter from the Institute to the Secretary-Treasurer, Provincial Board, B.C. Woman's Institute, 545 Superior Street, Victoria, B.C., must be received before July 15.

THE WOMAN'S INSTITUTE MEMORIAL SCHOLARSHIP IN AGRICULTURE — A scholarship of \$250 will be awarded annually by the Woman's Institute of B.C. It is available to the son or daughter of a member of the Institute. The member must have been in good standing for at least three years. Preference is given to a student registering at the University of British Columbia toward a degree in Agriculture. Application by letter from the Institute to the Secretary-Treasurer, Provincial Board, B.C. Woman's Institute, 545 Superior Street, Victoria, B.C., must be received before July 15.

SECTION 7

AWARDS FOR GRADUATE STUDY

AWARDS ADMINISTERED BY THE UNIVERSITY OF VICTORIA

UNIVERSITY OF VICTORIA FELLOWSHIPS:

1. Fellowships of the value of \$3,600 each may be awarded to outstanding students registered in full-time programmes leading toward a doctoral degree. No student may hold such a fellowship more than twice. Fellowships will be paid in twelve monthly instalments.
2. Fellowships of the value of \$2,400 each may be awarded to outstanding students registered in full-time programmes leading toward a doctoral degree or toward a master's degree. No student may hold such a fellowship more than twice. Fellowships will be paid in eight monthly instalments.

UNIVERSITY OF VICTORIA BURSARIES — Bursaries of the value of \$1,500 each may be awarded to students of promise registered in full-time programmes leading toward a master's degree. No student may hold such a bursary more than once. Bursaries will be paid in eight monthly instalments.

Application forms are provided with forms of application for admission to the School of Graduate Studies. The deadline for submission of application for Fellowships and Bursaries is February 21.

THE LEON J. LADNER B.C. HISTORY SCHOLARSHIP — Four hundred dollars (\$400) awarded annually for the best graduate thesis on the History of British Columbia.

AWARDS ADMINISTERED BY OTHER INSTITUTIONS AND ORGANIZATIONS

ASSOCIATION FOR RETARDED CHILDREN OF BRITISH COLUMBIA BURSARIES — Bursaries in various amounts are offered by the Association for Retarded Children of British Columbia to students in education, medicine, nursing, psychology, and social work in graduate or undergraduate programmes who: (a) are undertaking a full year, part-time or summer school course at a recognized University or College, and (b) intend to pursue studies related to mental retardation. Awards will be made on the basis of combined academic standing and need. Closing dates for submission of application forms are July 15 and December 15. Forms of application may be obtained from: Association for Retarded Children of British Columbia, Room 221, 119 West Pender Street, Vancouver 3, B.C.

THE BRITISH AMERICAN OIL COMPANY LIMITED GRADUATE FELLOWSHIPS — Five Fellowships will be awarded for 1967-68, each fellowship is valued at \$4,000: \$3,000 to be paid to the successful candidate, and \$1,000 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, 151 Slater Street, Ottawa. The competition closes March 1.

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, University of British Columbia, Vancouver 8, 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, 151 Slater 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 others 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. Request 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—

1. **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.
2. **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.
3. **PROFESSIONAL FELLOWSHIPS \$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.
4. **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.

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 \$2,500 each will be awarded for one year. In particular cases a further grant of up to \$2,500 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.

COMINCO GRADUATE RESEARCH FELLOWSHIP — Cominco Ltd. offers annually ten Graduate Research Fellowships. Each fellowship has the value of \$3,000 of which \$2,200 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 British Columbia, Vancouver 8, B.C. They must be sent to the Association of Universities and Colleges in Canada, 151 Slater 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.

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, 151 Slater Street, Ottawa 4, Ontario.

THE DEPARTMENT OF SOCIAL WELFARE, PROVINCE OF BRITISH COLUMBIA, BURSARY IN SOCIAL WORK — A bursary of \$1,000, established by the Department of Social Welfare, Province of British Columbia, is offered annually to graduates of the University of British Columbia or the 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.

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.

INTERNATIONAL FELLOWSHIPS FOR WOMEN IN SENIOR GRADUATE WORK 1968-1969 —

1. 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.

2. 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.

3. 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.

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 \$9,000 each (\$3,000 a year for a maximum of three years). A fellow may hold other awards concurrently.

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 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 \$2,000 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.*

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 \$2,000 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 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 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.

THE MacKENZIE KING TRAVELLING SCHOLARSHIPS — These scholarships of not less than \$1,500 each are available for graduates of any Canadian university who propose to engage, either in the United States or the United Kingdom, in post-graduate studies in the fields of international or industrial relations. Information may be obtained from Dean Walter H. Gage, University of British Columbia, 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, \$2,500 and studentship, \$3,000. 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 January 15. 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 will be made each year. Requests for application forms should be made before December 1. Further information may be obtained from the Awards Officer, Registrar's Office.

THE MERRILL C. ROBINSON BURSARY — One thousand dollars (\$1,000) provided by the Canadian National Institute for the Blind, British Columbia Division, to be awarded annually to assist a blind student attending the University of Victoria, Simon Fraser University, or University of Notre Dame at Nelson, in graduate or undergraduate studies. Applications are to be directed to the Bursary Committee, Canadian National Institute for the Blind, British Columbia Division, 350 East Thirty-Sixth Avenue, Vancouver 15, B.C.

ROTARY FOUNDATION FELLOWSHIPS — The Board of Directors of Rotary International and the Rotary Foundation Trustees have established a number of Rotary Foundation Fellowships, each to the value of \$2,500 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 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 \$3,500 may be granted each year, \$2,500 to be given to the individual and \$1,000 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, 151 Slater St., Ottawa 4, Ontario. Applications are due by the end of February each year.

THE WOODROW WILSON NATIONAL FELLOWSHIPS — The purpose of these fellowships is to attract men and women to the profession of college teaching in the humanities and the social and natural sciences. Outstanding seniors and graduates who are not registered in a graduate school are eligible for nomination provided they are, or intend to become, Canadian or U.S. citizens and are seriously considering a career in college teaching. Successful nominees must undertake a full programme of graduate study in a U.S. or Canadian graduate school; only in exceptional circumstances will Fellows be allowed to remain at the university where they have done their undergraduate work. The stipend is \$2,000; married male Fellows with children also receive \$1,000 for the first child and \$250 for each additional child. Tuition fees are paid directly to the Fellow's graduate school by the Foundation. Nominations for Woodrow Wilson Fellowships are by faculty members and are made early in the academic session; students should indicate their interest to a faculty member as soon as possible after registration in their final year.

SECTION 8

LOAN FUNDS

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 \$1,000 in any one year and not more than \$5,000 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.

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 the University of Victoria, in October.

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.

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 \$1,250. 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 \$1,250 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. Peggy Wallace, 2728 Dunlevy, Victoria, B.C.

Student Assistance — The 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.

SCHOLARSHIPS AND AWARDS 1965-66

The Kathleen Agnew Scholarships of \$150.00 each	Judith Arline Lomon Brian Andrew Smith
Alcan Scholarship of \$500.00	Michael Adam Cochrane
Alliance Française Prize of \$100.00	Leonard Frank Schmidt
Association of Childhood Education (Victoria Branch), Marian D. James Memorial Award of \$50.00	Brenda Jean Melvin
Beta Sigma Phi Sorority City Council Scholarship of \$100.00	Susan Mary Fawcett
The Birks Family Foundation Bursaries: of \$100.00	Alexander Leonard Slade
of \$75.00	Cheryl Audrey Moyer Linda Evelyn Rich
The British America Paint Company Scholarship of \$100.00	John Bateman Anderson
The British Columbia 1958 Centennial Scholarship of \$500.00	Alexander Michael Dawes
British Columbia Hydro and Power Authority Scholarships of \$250.00 each	Terry Gail Guernsey Mary Barbara McKellar (by reversion from Hilary Judith Sterling Littleton) Robert George Pettit Richard Emil Tschritter
The British Columbia Telephone Company Scholarship of \$100.00	Per Holme Andersen
Camosun Gyro Club Scholarship of \$150.00	Donna Mary Louise Neve
Canadian Association for Health, Physical Education and Recreation Inc. (Greater Victoria Branch) Scholarship of \$100.00	Irene Elizabeth Smith
The Canadian Cancer Society, British Columbia Division Bursary of \$500.00	Robin Alan Meakes
Canadian Daughter's League Assembly No. 5 — Gertrude M. Ralston Memorial Bursary of \$100.00	Robert Sinclair Mitchell
Canadian Union of Public Employees Scholarships of \$250.00 each	Christopher Kenneth Bitten (by reversion from David James Bowering) Kathleen Alice Mooney
Canadian Union of Public Employees Entrance Scholarships of \$100.00 each	Robert George Cullen Roberta Ellen Farris Maureen Elizabeth Haire Ian Charles Benson Smith Ronald Stuart Wells
John Wesley and Emily E. Church Memorial Scholarship of \$100.00	Sheila Anne Haegert
The Clearihue Bursary of \$300.00	Judith Arline Lomon
The Comitass Club Scholarship of \$50.00	Lynne Elizabeth Johnston
Charles E. (Chuck) Copeland Memorial Bursary of \$100.00	Judith Arline Lomon
The Edgar Ferrar Corbet Scholarship of \$250.00	Heather Ann Boucher
Matthew Cowan Scholarship of \$150.00	David Frederick Holm
The Adeline Julienne Deloume Scholarships of \$100.00 each	Aveline Margaret Susan Bricknell Randolph Dennis Burgoyne Valerie Gail Chan Sandra Mary Irvine Bruce Alexander Kelly Leonard Frank Schmidt Daniel Richard Worsley
Arthur S. Denny Scholarship of \$100.00	Paul Walter Williams
The Harold M. Diggon Memorial Bursary of \$200.00	Joseph Ranallo

T. Eaton Company (Canada) Ltd. Scholarship of \$200.00 ..	Stephen Norman Sullivan
Percy H. Elliot Memorial Scholarship of \$130.00	John Bateman Anderson
The H. O. English Scholarship of \$125.00	Catherine Ann Grant (by reversion from Sister Mary Elizabeth MacCarthy)
Faculty Women's Club Prize of \$100.00	Terry Gail Guernsey
Fine Arts Prizes of \$200.00 each	Michelle Vivian Bradshaw Anthony Aish
Friends of the Fine Arts Travelling Grant	Terry Gail Guernsey
The George Hamilton Harinan Memorial Scholarship of \$100.00	Richard Lewis Ogmundson
The William A. and Frances E. Harper Scholarship of \$75.00	Lynne Elizabeth Johnston (by reversion from Gail Marguerite Herrewig)
The Harbord Insurance Ltd. Scholarship of \$500.00	Cheryl Keyes
Hudson's Bay Company Service Award	No Award this year
The IBM Thomas J. Watson Memorial Bursaries of \$100.00 each	Per Holme Andersen Hal Chalmers Diane Lynn Coupland Robert John Conway Edwards Lynne Maureen Henderson George Joseph Henry Heyd Gloria Louise Olenick (by reversion from Dianne Norma Toews) Geraldine Frances Owen Catherine Ann Reed Daniel James Robinson
The Don Ingham Memorial Scholarship of \$150.00	James Edward Melsness (by reversion from Robert William Harrison)
The Island Tug and Barge Limited Scholarship of \$150.00 ..	Robert William Harrison
The Island Tug and Barge Limited Scholarship for an Indian Student of \$150.00	No Award this year
Ker Scholarship of \$150.00	Neil William Vallance
Freeman F. King Scholarship of \$250.00 ..	David Robert Gray
Kiwanis Scholarship of \$250.00	Daniel Richard Worsley
The Ladies Pharmaceutical Auxiliary (Victoria) Bursary of \$50.00	Barbara Anne Marcia McCall
The Lady Laurier Club Scholarship of \$100.00	Michael Arthur de Rosenroll
Lions Club Scholarship of \$100.00	Mary Joyce Elizabeth Hallett (by reversion from Theo Quayle Dombrowski)
MacMillan Bloedel Limited Scholarship of \$250.00	Lindsay McNiven Hodge
Robert Burns McMicking Chapter, I.O.D.E. Scholarship of \$500.00	Marjorie Helen King
The Benny Nicholas Memorial Award of \$100.00	Louis Francis Capson
Quita Nichol Bursaries: of \$100.00	Julie Rae Goodwin
of \$50.00	Aveline Margaret Susan Bricknell Judith Violet Cameron
Oak Bay Kiwanis Scholarship of \$100.00 ..	Linda Stringer (by reversion from Linda Dianne Petch)
The Oak Bay Business and Professional Women's Club Bursary of \$100.00	Stella Higgins
Ocean Cement Limited, B.C. Cement Division Scholarship of \$100.00	Barrie Douglas Turnham
Esther Pearce Memorial Prize of \$50.00 ..	Barbara Elizabeth Turner
The Honourable and Mrs. G. R. Pearkes Prize of \$50.00 ..	Robert John Douglas Gage
The Alan Pratt Memorial Scholarship of \$100.00	Brian Arthur White

The President's Entrance Scholarships of \$500.00 Brian John Harvey
 Carolee Mae Orme
 William James Sparks
 Dawn Ellen Speed
 Gillian Patricia Wallace
 Carolyn Jean Zapf

The President's Undergraduate Scholarships:

of \$300.00 Lindsay McNiven Hodge

of \$200.00 Kathryn Ethel Anderson
 Aveline Margaret Susan Bricknell
 Eileen Laura Cavers
 Nancy Jean Chapman
 Ib Jarle Christensen
 Charles Rufus Tisdall Coleman
 Susan Mary Fawcett
 Douglas Roy Franks
 Ronald Kenneth Gamey
 Myra Elizabeth Hall
 James Alan Stephen Howell
 David William Johns
 George Victor Kemsshaw
 (by reversion from Joan Murray McFarland)
 Terry Jack Klokeid
 Margaret Elaine MacQuarrie
 Robert John McMaster
 Julia Ann Oxendale
 Stephen David Oxendale
 William James Salmond

of \$150.00 Judith Violet Cameron
 James Patrick Carley
 Bruce Alexander Kelly
 Kenneth John MacDonald
 Heather Anne Robertson
 Stephen Norman Sullivan

of \$100.00 Richard Allen Avis
 Robert Edward Botten
 Peter Corley-Smith
 Alexander Michael Dawes
 Theo Quayle Dombrowski
 Robert Bruce Dutton
 Julie Rae Goodwin
 Barbara Anne Gordon
 John Sephen Griffiths
 Stuart James Harris
 Robert William Harrison
 Alan Benjamin Hughes
 Merrilee Beth Hustler
 Peter William James
 Robin Bannerman Jeffrey
 Linda Marjorie Ley
 Margaret Odean Long
 Brenda Lee Lonsbury
 George Edgar Lovick
 Alan Michael Mann
 Thomas Marshall McNie
 Carolyn Gail Menzies
 Marje Molder
 Cheryl Elizabeth Osborn
 John Phillips
 Susan Marie Ptak
 Ronald Bruce Read
 Sylvia Elise Sanrud
 Sandra Elizabeth Schutz
 Janet Louise Stilman

Robert Thomas Smith
 David McNeil Summers
 James Creighton Taylor
 Timothy Frank Taylor
 Geoffrey Thornburn
 Brian Michael Tobin
 Barrie Douglas Turnham
 Johannes Pieter Van Netten
 Brian Thomas Whitten
 Paul Walter Williams
 Denise Hon Won
 Paul Gary Young
 David Lee Zirul

- The Professional Institute of the Public Service of Canada (Victoria Branch)
 Scholarship of \$100.00 John William McDonald
- The Professional Men's Garden Club of Victoria Scholarship
 of \$100.00 Marje Molder
- The Read Jones Christoffersen Ltd., Consulting Engineers, Scholarship
 of \$200.00 Douglas John McMillin
- Rithet Consolidated Limited Bursary of \$100.00 William Frank Burkholder
- The Rotary Club of Douglas (Victoria) Scholarship of \$100.00 .. Susan Mary Fawcett
- The Royal Canadian Legion (Victoria) Sir Percy Lake Memorial
 Scholarship of \$300.00 Susan Laubenstein
- Royal Institution and Frank Eaton Memorial Scholarship
 of \$50.00 James Patrick Carley
- The Madame Sanderson Memorial Scholarship
 of \$50.00 Aveline Margaret Susan Bricknell
- The Edward J. Savannah Memorial Scholarship of \$150.00 Frank Graham Sommer
- The Nora Lugin Shaw Memorial Scholarship of \$60.00 Joseph Ranallo
- The Andrew Sheret Ltd. Scholarships of \$75.00 each Theo Quayle Dombrowski
 Donna Mary Louise Neve
- Special Award of \$400.00 Hamar Russ Kenneth Foster
- Special Scholarships in Biology:
- of \$200.00 Sharon Excene Godkin
 Rita Mac Gustus
 Philip Lambert
- of \$150.00 Dorinda Ann Kerr
 Carolyn Gail Menzies
 Donald George Peden
 Edward Lloyd Pulford
- of \$100.00 John William Knodel
 Dianne Cecil Smith
- of \$50.00 Anne Dorothy Michell Dale
 Lindsay McNiven Hodge
 Johannes Pieter Van Netten
- of \$25.00 Judith Violet Cameron
 Theo Quayle Dombrowski
- The Fred Spencer Scholarship of \$100.00 No Award this year
- United Nations Association (Victoria Branch) Scholarship
 of \$250.00 Robert Nicholas Lang
- University Extension Association of Victoria Scholarship
 of \$100.00 Eric Neil Gelling
- University of Victoria Alumni Scholarships,
 five of \$250.00 each Marilyn Ruth Bowering
 Elizabeth Ann Dunn
 Ronald Gary McCaig
 Dianne Marguerite Trythall
 Mary-Lee Webster

The University of Victoria Faculty Association Scholarship of \$200.00	David Coburn
University of Victoria School of Graduate Studies Awards Fellowships:	
of \$2,400	Fred Paul Dieken Norina Irene Mickelson
of \$1,200	Martin Clutton-Brock Robert Milthorpe Dunnill Robert John Louis Marjorie Ruth Mitchell David James Thomson
Bursaries:	
of \$1,000	Padraig Austin Coughlan Henri Joseph Jean-Baptiste Martel Elizabeth Jean Nicol Robert George Otto Marianne Pearl Pflager Wolfgang Porschke John Douglas Pringle Michael George Roberts Mary Lee Thomson
of \$750.00	Malcolm John Roy Clark
of \$350.00	Corinne Elizabeth Argue Ronald Calvin Coates William Alexander Sloan
University Women's Club Scholarship of \$200.00	Rose-Marie Elizabeth Silkens
The Vancouver Island Branch, Engineering Institute of Canada Scholarship of \$100.00	Terrence Alexander Curran (by reversion from George Victor Kemshaw)
The Victoria Council, United Commercial Travellers of America Scholarship of \$100.00	Sandra Mary Irvine
Victoria Gyro Club Scholarship of \$200.00	Stephen Norman Sullivan
The Victoria Medical Society Scholarship of \$250.00	Mary Barbara McKellar
The Victoria Medical Society Scholarship II of \$500.00	David James Bowering
Victoria Municipal Chapter, I.O.D.E. Scholarship for General Proficiency of \$100.00	Donna Anne Cuthbert
Victoria Municipal Chapter, I.O.D.E. Scholarship in Canadian History of \$100.00	Rodney Leonard Hayley
Victoria Natural History Society Scholarship of \$100.00	Paul Gary Young
Victoria Rotary Club Scholarship of \$250.00	Rose-Marie Elizabeth Silkens
Victoria West Parent-Teacher Association Bursary of \$50.00	Daniel Richard Worsley
The Weber Memorial Bursary of \$100.00	Rita Mae Gustus
The Westad Scholarship of \$250.00	David Coburn
The Weston Bakeries, Limited, Scholarship of \$250.00	Kenneth John MacDonald
The Woods Trust Scholarships:	
of \$250.00	Douglas John McMillin Frank Graham Sommer
of \$200.00	Hamish Drummond Weaver Bridgman Neil Bruce Charles Lee Joan Murray McFarland (by reversion from Bunty Jaswant Bains) Robert James Tapp
The Woodward Stores, Limited, Scholarship of \$250.00	Heather Anne Robertson
The Xi Nu Chapter, Beta Sigma Phi Sorority, Annual Bursary of \$25.00	Susan Mary Fawcett
The Yarrows Limited Bursary of \$150.00	Terrence Alexander Curran (by reversion from George Victor Kemshaw)

The Yorkshire and Canadian Trust Limited Scholarships of \$175.00	Lynne Elizabeth Johnston
The Rosalind W. Young Scholarship of \$200.00	Linda Dianne Petch
The Governor-General's Medal	John Albert Matthews Eleanor Jane Turner
Dr. Maxwell A. Cameron Memorial Medal and Prize of \$50.00	Margaret Park
Adelphi Book Shop Prize	Catherine Ann Grant
Birk's Gold Watch	Alice Carolyn May Wootton
Book Prize for Excellence in Shakespeare Studies	Donna Ellen Smyth
B.C. Historical Association Book Prizes	David Frederick Holm Alison Agnes Armstrong
The Denton Memorial Book Prize	William Gerald Duckitt
Gwen Downes Memorial Book Prize	Bruce Thornton Sharp
First Year English Book Prize	Rose-Marie Elizabeth Silkens
Francis Gold Watch	Lindsay McNiven Hodge
The French Government Book Prizes	Aveline Margaret Susan Bricknell Julie Rae Goodwin
French Government Medal	Bruce Alexander Kelly
Government of Federal Republic of Germany Book Prizes, Government of Austria Book Prizes	Aveline Margaret Susan Bricknell Nancy Jean Chapman Gunter Enrik Mundschutz Luzia Luise Elisabeth Rausch Martin Vandcrpol Alicc Carolyn May Wootton Daniel Richard Worsley
The Haunted Bookshop Book Prize	Diane Jean Tognotti
Rose's Limited Jeweller's Watch	Adrienne Margaret Allen
The Spanish Government Book Prize	Jean Frances Alexander
G. B. Stark Memorial Slide Rule Prize	Andrew Paul Bacon (by reversion from Stephen Norman Sullivan)

Government of British Columbia Scholarships:

These scholarships were awarded to 740 students in the session 1966-67.

SUMMER SESSION

Director: HUGH E. FARQUHAR, M.A. (Leave of absence)

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 Director of Summer Session.

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 by June 5, 1967. A late registration fee of \$20.00 will be charged when permission to register late is granted.
3. All new students desiring to obtain credit for courses completed in the Summer Session must submit with their Application for Admission official transcripts of their matriculation standing and any university work completed elsewhere. In the case of teachers, official transcripts of their professional training are also required.
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 42.
6. Summer Session examinations are held at the close of Summer Session.
7. For regulations regarding standing and credit, see page 38.

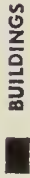
UNIVERSITY OF VICTORIA ALUMNI ASSOCIATION

Any student who has completed successfully 15 units of work at Victoria Normal School, Victoria College, or at the 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.

UNIVERSITY OF VICTORIA

LEGEND



BUILDINGS



RESERVED PARKING — DAY AND NIGHT



RESERVED PARKING — 7 A.M. TO 5 P.M.



STUDENT AND STAFF PARKING



MOTORCYCLE PARKING



— -- — SIDEWALKS

— All Cars parked on campus must bear valid parking permits.

— Parking is permitted in designated parking areas only.

— No parking is permitted on roads, shoulders, building entrances, grassed or undeveloped areas, on walkways, or adjacent to yellow curbs.

— Speed limit on campus is 20 m.p.h.
Speed limit in parking lots is 10 m.p.h.

— Parking lots and roads within the campus are subject to the provisions of the Motor Vehicle Act and Regulations.

KEY TO BUILDINGS

- A. Carpenter's Shop
- B. Paint Shop
- C. Buildings and Grounds Offices
- D. Campus Planning Offices
- E. Faculty Lounge
- F. Development Board, Information Office
- G. Computer Services
- H. Classrooms
- J. Offices
- K. Student Health Services
- L. Cafeteria
- M. Administration Offices
- N. Graduate Studies — Dept. of Linguistics
- O. Laboratories
- P. Field House
- Q. Theatre
- R. Stores
- S. Gymnasium
- V. S.U.B. Annex

REGISTRATION FOR 1966-67

FACULTY OF ARTS AND SCIENCE	Men	Women	Total
First Year	670	393	1063
Second Year	479	215	694
Third Year	251	85	336
Fourth Year	215	81	296
Unclassified	12	9	21
Total in Faculty	1627	783	2410

FACULTY OF EDUCATION

Elementary

First Year Regular	21	195	216
Second Year Regular	14	137	151
Third Year Regular	15	109	124
Fourth Year Regular	18	26	44
Partial and Irregular (2nd year)	—	3	3
	68	470	538
Second Year Transfers	30	92	122
Third Year Transfers	3	10	13
Fourth Year Transfers	5	2	7
Graduates	6	10	16
Partial (Graduates)	—	1	1
	44	115	159

Secondary

First Year	46	34	80
Second Year	29	19	48
Third Year	25	10	35
Fourth Year	19	3	22
Fifth Year (Regular)	8	1	9
Fifth Year (Transfer from Elem.)	6	1	7
Graduate (One Year Programme)	20	5	25
	153	73	226

Unclassified	2	2	4
Total in Faculty	267	660	927

SCHOOL OF FINE ARTS:

First Year	18	15	33
Second Year	2	1	3
Third Year	—	1	1
Total in School	20	17	37

SCHOOL OF GRADUATE STUDIES:

Total in School	39	10	49
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GRAND TOTAL	1953	1470	3423
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(Statistics compiled September 26, 1966.)

DEGREES CONFERRED

B.A. - 119; B.Sc. - 57; B.Ed. - 84 — Total - 260.

ENROLMENT 1961 - 67

	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Arts and Science						
First Year	631	699	733	891	1044	1063
Second Year	271	323	441	488	594	694
Third Year	109	165	180	228	268	336
Fourth Year	70	64	147	189	222	296
Graduates	5	4	8	10	11	—
Unclassified	—	—	—	2	6	21
Total in Faculty	1086	1255	1509	1808	2145	2410
Faculty of Commerce and Business Administration						
First Year	19	23	—	—	—	—
Faculty of Education						
Elementary Field						
First Year	194	141	141	206	203	216
Second Year	147	158	112	104	158	151
Third Year	26	36	43	70	104	124
Fourth Year	1	8	18	19	38	44
Partial and Irregular (2nd Year)	—	—	—	—	—	3
	368	343	314	399	503	538
Second Year Transfers	150	107	110	122	106	122
Third Year Transfers	15	8	13	17	14	13
Fourth Year Transfers	3	2	2	1	4	7
Graduate Transfers Partial (Graduates)	11	9	12	21	18	16
	—	—	—	—	—	1
	179	126	137	161	142	159
Post B.Ed. Degree (Elem.) 5th Yr. Programme	—	—	—	1	—	—
Secondary Field:						
First Year	26	29	46	52	80	80
Second Year	29	21	18	31	29	48
Third Year	24	34	24	22	25	35
Fourth Year	6	17	19	21	21	22
Fifth Year (Regular)	—	1	10	18	14	9
Fifth Year (Transfer from Elem.)	—	—	—	—	—	7
Graduates (One Yr. Prog.)	—	—	8	23	20	25
	85	102	125	167	189	226
Unclassified	4	—	—	5	3	4
Total in Faculty	636	571	576	733	837	927
School of Fine Arts:						
First Year	—	—	—	—	—	33
Second Year	—	—	—	—	—	3
Third Year	—	—	—	—	—	1
Total in School	—	—	—	—	—	37
School of Graduate Studies:						
Total in School	—	—	—	—	—	49
TOTAL	1741	1849	2085	2541	2982	3423

UNIVERSITY OF VICTORIA
STUDENT REGISTRATION — 1966 - 67

by School Districts, Provinces and Other Countries

School Districts		Provinces		Other Countries			
1 —	15	44 —	6	Alberta	50	United States	27
2 —	23	45 —	10	Saskatchewan	29	England	18
3 —	22	46 —	3	Manitoba	23	Ireland	3
4 —	3	47 —	14	Ontario	57	Scotland	5
7 —	22	48 —	—	Quebec	14	Wales	1
8 —	3	49 —	6	Nova Scotia	20	Antigua	1
9 —	13	50 —	—	New Brunswick	4	Hong Kong	3
10 —	4	51 —	—	Prince Edward Is.	2	Germany	3
11 —	44	52 —	13	Newfoundland	1	France	1
12 —	4	53 —	14	Yukon Territory	2	Hungary	1
13 —	4	54 —	3		—	Switzerland	1
14 —	12	55 —	—		202	Holland	2
15 —	13	56 —	3			India	2
16 —	1	57 —	15			Japan	3
17 —	3	58 —	—			Kenya	2
18 —	1	59 —	9			Uganda	1
19 —	12	60 —	2			Rhodesia	1
20 —	14	61 —	1863			South Africa	1
21 —	1	62 —	80			Tanzania	1
22 —	23	63 —	180				—
23 —	24	64 —	9				77
24 —	30	65 —	168				
25 —	—	66 —	23				
26 —	—	67 —	36				
27 —	9	68 —	101	School Districts		3,144	
28 —	3	69 —	28	Provinces		202	
29 —	2	70 —	36	Other Countries		77	
30 —	2	71 —	57			—	
31 —	8	72 —	26			3,423	
32 —	3	73 —	—				
33 —	6	74 —	—				
34 —	1	75 —	4				
35 —	1	76 —	—				
36 —	6	77 —	4				
37 —	2	78 —	2				
38 —	—	79 —	3				
39 —	49	80 —	7				
40 —	4	81 —	—				
41 —	4	85 —	3				
42 —	2	*86 —	20				
43 —	3						

3,144

*Former School Districts No. 5 and No. 6.

NOTE: Origin of students determined from Secondary School last attended.

**UNIVERSITY OF VICTORIA
REGISTRATION BY CENSUS DIVISION**

Census Division	1964-65	1965-66	1966-67
(1) East Kootenay and Upper Columbia River	40	64	60
(2) West Kootenay, Columbia River and Slocan Lake	93	106	108
(3) Okanagan, Similkameen, Kettle and Upper Shuswap Rivers	74	78	90
(4) Lower Fraser Valley, Howe Sound	29	26	18
Vancouver (Metropolitan)	35	41	49
(5) Vancouver Island	518	620	1026
Greater Victoria	1594	1853	1863
(6) N. Thompson, Shuswap, Nicola, Chilcotin S., Lillooet E., Bridge-Lillooet	40	41	49
(7) Bella Coola, Knight Inlet, Powell River	8	18	17
(8) Nechako, Fraser, Chilcotin-North Cariboo, Skeena, Tatla Lakes	22	55	33
(9) Atlin Lake, Skeena Coast, Queen Charlotte Islands	17	14	27
(10) N/E B.C., Laird, Finlay, Parsnip, Beaton River	16	15	10
	<hr/>	<hr/>	<hr/>
	2,486	2,931	3,350
Alberta	10	14	23
Saskatchewan	7	4	6
Manitoba	2	—	—
Ontario	15	8	9
Quebec	—	2	4
Nova Scotia	—	1	1
New Brunswick	2	1	—
Prince Edward Island	—	—	—
Newfoundland	1	1	—
Yukon	3	2	3
Northwest Territories	—	—	1
	<hr/>	<hr/>	<hr/>
	40	33	47
Other Countries	14	18	26
	<hr/>	<hr/>	<hr/>
	2,540	2,982	3,423

NOTE: Origin of students determined from permanent address.

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 Secondary 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 Secondary Schools. Completed applications **must** be submitted by the dates specified.

