

THE
UNIVERSITY
OF
VICTORIA

Calendar
1963-64

VICTORIA, BRITISH COLUMBIA

NOTICE

In March 1963, the British Columbia Legislature passed "An Act Respecting Universities" — Bill No. 119 — creating the University of Victoria effective July 1st, 1963.

Since the preparation of the *Calendar for the Session 1962-63* had to be completed prior to the passing of the Act, it was necessary to use the name Victoria College throughout the publication. All references to Victoria College will now read the University of Victoria, which is an independent, degree-granting institution, no longer affiliated with the University of British Columbia.



Victoria College
Library



THE UNIVERSITY OF VICTORIA

Calendar
1963-64

VICTORIA, BRITISH COLUMBIA



E. B. PAUL BUILDING

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ACADEMIC YEAR

1963

- Thursday, August 1st—Last day for submission of applications for bursaries.
Monday, August 5th—Supplemental examinations begin.
Tuesday, August 13th—Supplemental examinations end.
Thursday, August 15th—Last day for submission of applications for admission and applications for re-registration.
Sunday, September 1st—ACADEMIC YEAR begins.
Monday, September 2nd—Labour Day. College closed Saturday to Monday, inclusive.
Tuesday, September 10th } Registration in person for winter session. Details of
Friday, September 13th } place and time mailed to all students receiving Eligibility for Registration forms. Registration closes at 4:00 p.m. First term fees are due and payable. Ability Tests will be administered for new students.
Monday, September 16th—Lectures begin at 8:30 a.m.
Tuesday, September 17th—Meeting for all new students at 1:00 p.m., Gordon Head Gymnasium.
Saturday, September 21st—Last day for changes in students' courses; all changes must be reported to the Registrar's Office by this date.
Monday, October 14th—Thanksgiving Day: College closed Saturday to Monday inclusive.
Monday, November 11th—Remembrance Day. College closed.
Saturday, December 7th—Last day of lectures.
Tuesday, December 10th—Examinations begin.
Friday, December 20th—First Term ends.
Wednesday, December 25th—Christmas Day. College closed December 25th and 26th.

1964

- Wednesday, January 1st—New Year's Day. College closed.
Monday, January 6th—Second term begins. Second term fees are due and payable. Students are advised to mail second term fees to Accountant by this date.
Friday, February 14th }
Saturday, February 15th } Mid-term break; classes cancelled.
Friday, March 27th—Good Friday. College closed Friday to Monday inclusive.
Saturday, April 11th—Last day of lectures. Last day for handing in graduation essays.
Thursday, April 16th—Sessional examinations begin.
Saturday, May 2nd—Sessional examinations end.
Saturday, May 16th—College closed.
Monday, May 18th—Victoria Day. College closed.
Sunday, May 24th—Baccalaureate Service.
Monday, May 25th—Congregation.
Monday, June 8th—Last day for registration for summer session.
Wednesday, July 1st—Dominion Day. College closed.
Thursday, July 2nd—Summer session begins.
Friday, July 3rd—Summer session supplemental examinations.
Wednesday, July 15th—Last day for submission of applications for supplemental examinations.
Saturday, August 1st—Last day for submission of applications for bursaries.
Monday, August 3rd—Supplemental examinations begin.
Tuesday, August 11th—Supplemental examinations end.
Tuesday, August 18th—Summer session ends.
Monday, August 31st—ACADEMIC YEAR ends.

During 1963 the College is closed on Saturdays from May 18th to August 31st inclusive.

VICTORIA COLLEGE COUNCIL

John B. Macdonald, D.D.S., M.S., Ph.D., A.M. (Hon.), F.A.C.D.,
President, University of British Columbia.

S. N. F. Chant, O.B.E., M.A., Dean of the Faculty of Arts and Science.

Neville V. Scarfe, M.A., Dean of the Faculty of Education.

John Gough, M.A., District Superintendent of Schools, Greater Victoria District.

W. Harry Hickman, M.A. (Brit. Col.), Docteur de l'Université de Paris, Principal.

Appointed by Board of Governors:

Judge J. B. Clearihue, M.C., E.D., B.A., B.C.L., M.A., LL.D., (Chairman).
Term expires May, 1963.

Richard B. Wilson, B.Com. Term expires May, 1965.

Appointed by Lieutenant-Governor in Council:

Lloyd G. McKenzie, Q.C., B.A., LL.B. Term expires May, 1963.

Willard E. Ireland, M.A. (Vice-Chairman). Term expires May, 1965.

Appointed by Greater Victoria Board of School Trustees:

Kenneth L. Leeming. Term expires May, 1963.

William C. Gelling. Term expires May, 1965.

OFFICERS AND STAFF

W. Harry Hickman, M.A. (Brit. Col.), Docteur de l'Université de Paris, Principal.
Robert T. D. Wallace, M.A. (Brit. Col.), Vice-Principal and Director, Evening
Division.

Henry C. Gilliland, M.A. (Brit. Col.), Director, Teacher Education.

Hugh E. Farquhar, M.A. (Brit. Col.), Executive Assistant to the Principal and
Director of Summer Session. (On leave of absence 1963-64).

Miss Dorothy M. Cruickshank, B.A. (Brit. Col.), Registrar. (On leave of absence
September 1 - December 31, 1963.)

Ronald R. Jeffels, C.D., B.A., B.Ed. (Alberta), M.A. (Cantab.), Acting Registrar.

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

Robert W. McQueen, B.Com. (Brit. Col.), C.A., Accountant.

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

Mrs. Marjorie Hoey, Assistant Registrar.

Miss Catherine D. Cameron, Secretary to Principal.

FACULTY BOARD

The Principal (Chairman).

Ex-officio Members:

The Vice-Principal.

The Director of Evening Division.

The Director of Teacher Education.

The Director of Summer Session.

The Executive Assistant to the Principal.

The Librarian.

The Registrar (Secretary).

Elected Representatives:

Humanities—R. J. Bishop, P. S. Smith.

Social Sciences—S. G. Pettit, R. E. L. Watson.

Pure Science—J. L. Climenhaga, S. A. Ryce.

Education—G. A. Brand, R. H. J. Monk.

FACULTY OF ARTS AND SCIENCE

Professor Emeritus

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

Department of Anthropology and Sociology

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

Roy E. L. Watson, M.A., Ph.D. (Toronto), Associate Professor.

Mrs. Barbara S. Efrat, B.A. (Pembroke), M.A. (Brown), Honorary Research Associate.

Department of Astronomy

Mrs. Jean K. Petrie, B.Sc. (Alberta), Ph.D. (Michigan), Part-time Lecturer.

Department of Bacteriology

Mrs. Ann Johnston, M.Sc. (McGill), Part-time Lecturer.

Department of Biology, Botany and Zoology

W. Gordon Fields, B.A. (Brit. Col.), A.M., Ph.D. (Stanford), Professor of Biology and Zoology, and Head of Department.

Arthur R. Fontaine, B.Sc. (McGill), D.Phil. (Oxon), Assistant Professor of Biology and Zoology.

Edwin M. Hagmeier, M.A., Ph.D. (Brit. Col.), Assistant Professor of Biology and Zoology.

Marcus A. M. Bell, B.S.F. (Brit. Col.), M.F. (Yale), Lecturer in Botany.

Lynwood S. Smith, M.Sc., Ph.D. (Washington), Lecturer in Biology and Zoology.

Mrs. K. Diane Vaughan, B.A., M.D. (Brit. Col.), Part-time Lecturer in Zoology.

Mrs. Marion D. Fontaine, M.Sc. (McGill), Honorary Research Associate.

Department of Chemistry

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

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

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

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

Harry Lynton, B.Sc. (Chelsea Polytechnic), Ph.D. (Leeds), Assistant Professor.

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

Department of Classics

John Carson, M.A. (Oxon), Assistant Professor.

Peter L. Smith, B.A. (Brit. Col.), Ph.D. (Yale), Assistant Professor.

Geoffrey J. D. Archbold, B.A. (Brit. Col.), M.A. (Cincinnati), Instructor.

Department of Commerce, Economics and Political Science

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

Izzud Din Pal, M.A. (Panjab), M.Sc. (London), Ph.D. (McGill), Assistant Professor.

Neil A. Swainson, B.A., B.Ed., M.A. (Brit. Col.), Assistant Professor.

Edgar S. Efrat, B.A. (Reed Coll.), M.A., Ph.D. (Texas), Lecturer.

Robert W. McQueen, B.Com. (Brit. Col.), Part-time Lecturer in Commerce.

Department of English

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

John D. Peter, M.A. (Cantab.), B.A., LL.B., D.Litt. (South Africa), Professor.

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

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

Robert G. Lawrence, M.A. (New Brunswick), Ph.D. (Wisconsin), Associate Professor.
 G. Grant McOrmond, M.A. (Sask.), Associate Professor.
 Rodney Poisson, M.A. (Brit. Col.), Ph.D. (Washington), Associate Professor.
 Robin Skelton, M.A. (Leeds), Associate Professor.
 George Cuomo, B.A. (Tufts), M.A. (Indiana), Assistant Professor.
 Miss E. Ann Saddlemyer, B.A. (Sask.), M.A. (Queen's), Ph.D. (London), Assistant Professor.
 William Benzie, M.A., Ed.B. (Aberdeen), Instructor.
 David D. Buchan, M.A. (Aberdeen), Instructor. (On leave of absence 1963-64).
 Miss Joan Coldwell, M.A. (London), Instructor. (On leave of absence 1963-64).
 Miss Margaret A. Doody, B.A. (Dalhousie), B.A. (Oxon), Instructor.
 George H. Forbes, B.A. (Brit. Col.), Instructor.
 Neville L. Haddock, M.A. (Birmingham), Instructor.
 Carl R. D. Hare, M.A. (Alberta), Dip. R.A.D.A., Instructor.
 John G. Hayman, M.A. (Oxon), M.A. (Cornell), Instructor.
 Anthony W. Jenkins, M.A. (Cantab.), Instructor.
 Miss Jean E. Kennard, B.A. (London), Instructor.
 Michael J. Warren, M.A. (Oxon), Instructor.
 Douglas Young, M.A. (Aberdeen), Instructor.

Department of Geology and Geography

Charles H. Howatson, M.A. (Brit. Col.), Associate Professor.
 Charles N. Forward, M.A. (Brit. Col.), Ph.D. (Clark), Assistant Professor.
 Woodford Garrigus, A.B. (Middlebury), M.A., Ph.D. (Clark), Assistant Professor.
 Eric DeWitt Ross, M.A. (New Brunswick), Ph.D. (Edinburgh), Instructor.

Department of History

Sydney G. Pettit, M.A. (Brit. Col.), Professor and Head of Department.
 C. Anthony Emery, M.A. (Oxon), Assistant Professor. (On leave of absence 1963-64).
 Reginald H. Roy, M.A. (Brit. Col.), Assistant Professor.
 W. George Shelton, M.A. (Man.), Ph.D. (Penn.), Assistant Professor.
 John C. M. Ogelsby, A.B. (Stanford), M.A. (Washington), Instructor.
 Howard H. Sugimoto, B.A. (Queen's), Instructor.

Department of Mathematics

Robert T. D. Wallace, M.A. (Brit. Col.), Professor and Head of Department.
 Fernand E. Deloume, B.A. (Brit. Col.), M.A. (Toronto), Ph.D. (U.S.C.), P.Eng. (Brit. Col.), Associate Professor.
 Mrs. O. Phoebe Noble, B.A. (Brit. Col.), Associate Professor.
 Leon Bowden, B.Sc. (London), B.Litt. (Oxon), Assistant Professor.
 Mrs. D. Elizabeth Kennedy, M.A. (Brit. Col.), Assistant Professor.
 Herman H. Ferns, B.A. (Sask.), Ph.D. (Toronto), Visiting Professor.
 Ian Barrodale, B.Sc. (Univ. College of N. Wales), Instructor. (On leave of absence 1963-64).
 Byron L. Ehle, A.B. (Whitman), M.S. (Stanford), Instructor.
 H. Paul Smith, B.A., M.Ed. (Brit. Col.), Instructor.
 Mrs. Eileen Caner, B.Sc. (London), Part-time Lecturer.
 Mrs. Jean Sargent, B.A. (Brit. Col.), Ph.D. (Toronto), Part-time Lecturer.

Department of Modern Languages

W. Harry Hickman, M.A. (Brit. Col.), Docteur de l'Université de Paris, Professor and Head of Department.
 C. Vyner Brooke, B.A. (Queen's), A.M., Ph.D. (Harvard), Associate Professor of Spanish.

- Miss Gwladys V. Downes, M.A. (Brit. Col.), Docteur de l'Université de Paris, Associate Professor of French.
- J. Beattie MacLean, B.A. (Brit. Col.), M.A., Ph.D. (Washington), 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. (Washington), M.A. (Harvard), Assistant Professor of Russian.
- Miss Herta M. Hartmanshenn, Ph.D. (Marbourg), Assistant Professor of German.
- Gerald Moreau, M.A. (Laval), Docteur de l'Université de Poitiers, Assistant Professor of French.
- Frederick Kriegel, 2nd State Certificate (Vienna), Instructor in German.
- Jean-Pierre Mentha, M.Ed. (Brit. Col.), Instructor in French.
- Jerrold L. Mordaunt, M.A. (Utah), Instructor in Spanish.
- Walter Riedel, B.Ed. (Alberta), Instructor in French and German.
- Miss Adriana N. Slaniceanu, B.A. (Alberta), Instructor in Spanish.
- Mrs. Béragère E. Steel, L. ès L. (Paris), Instructor in French.
- James E. Travis, M.A. (Manchester), Visiting Lecturer.
- Ronald R. Jeffels, C.D., B.A., B.Ed. (Alberta), M.A. (Cantab.), Part-time Lecturer in French.

Department of Philosophy

- John De Lucca, B.B.A. (City Coll. of N.Y.), M.A. (New School for Social Research), Ph.D. (Ohio State), Assistant Professor.
- Edward J. Bond, M.A. (Queen's), Instructor.

Department of Physics

- John L. Climenhaga, M.A. (Sask.), M.A., Ph.D. (Michigan), Associate Professor and Head of Department.
- David Rankin, M.A. (Brit. Col.), Ph.D. (Alberta), Associate Professor.
- Harry W. Dosso, B.A., M.Sc. (Brit. Col.), Assistant Professor.
- Gerhart B. Friedmann, B.Sc., M.A. (Madras), Ph.D. (Brit. Col.), Assistant Professor.
- Grenville R. Mason, B.A.Sc. (Brit. Col.), M.Eng. (McMaster), Lecturer.
- Harbhajan S. Sandhu, B.A., M.Sc. (Panjab), Lecturer.

Department of Psychology

- William H. Gaddes, M.A. (Brit. Col.), Ph.D. (Claremont), Professor and Head of Department. (On leave of absence 1963-64).
- Geoffrey P. Mason, M.A. (Brit. Col.), Ph.D. (Wash. State), Associate Professor.
- G. Alexander Milton, A.B. (Western Wash.), M.S. (Oregon), Ph.D. (Stanford), Associate Professor.
- Erling Boe, B.A. (Concordia, Minn.), M.S., Ph.D. (Wash. State), Instructor.
- Douglas E. Alcorn, M.D., G.M. (McGill), Cert. R.C.P. and S.(C) Neur. and Psych., Part-time Lecturer.
- Ian S. Kenning, B.Sc., M.D., C.M. (McGill), Cert. R.C.P. and S(C) Psych., Part-time Lecturer.
- Robert M. Peet, B.A., M.B., B.Ch., B.A.O., M.D. (Trinity College, Dublin), M.R.C.P.I., M.S. (Minn.), F.R.C.P. (C), Part-time Lecturer.
- Lyle N. Roberts, M.D., F.R.C.S. (C), Honorary Research Associate.

COLLEGE OF EDUCATION

JOINT BOARD

Representing the University:

The Chancellor, Mrs. Phyllis G. Ross, C.B.E., M.A., LL.D., or her nominee.

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

The Dean of the Faculty of Education, Neville V. Scarfe, or his nominee.
Representative of the Senate, Dean Walter H. Gage (Chairman).

Representing the Provincial Department of Education:

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

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

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

The Coordinator of Teacher Recruitment, Mr. Philip J. Kitley, or his nominee.

Representing Victoria College:

The Principal, Dr. W. Harry Hickman, or his nominee.

Representing the B.C. School Trustees' Association:

Mr. F. M. Reder.

Representing the B.C. Teachers' Federation:

Mr. C. D. Ovans.

Mr. Harold N. Parrott.

The Registrar, Mr. J. E. A. Parnall, Secretary.

FACULTY OF EDUCATION

- H. C. Gilliland, M.A. (Brit. Col.), Professor and Director and Head of Teacher Education.
- George A. Brand, B.A., M.Ed. (Brit. Col.), Professor and Assistant Director of Teacher Education.
- Hugh E. Farquhar, M.A. (Brit. Col.), Professor. (On leave of absence 1963-64).
- Howard B. Barnett, A.R.C.T., B.A., Mus. Bac. (Toronto), M.A., Ph.D. (S. Calif.), Associate Professor.
- David J. Chabassol, B.A., B.Ed. (Acadia), M.Ed. (Toronto), Ph.D. (Alberta), Associate Professor.
- D. Boyce Gaddes, A.T.C.M., B.Mus. (Oregon), M.A. (Washington), Associate Professor.
- A. Wilfrid Johns, B.A. (Washington), Associate Professor.
- Fred L. Martens, B.A., B.Ed. (Brit. Col.), M.Sc. in P.E. (Washington), Associate Professor.
- Richard H. J. Monk, B.A. (Brit. Col.), M.Ed., Ph.D. (Washington), Associate Professor.
- Mrs. W. Copeland Brand, Assistant Professor.
- Mrs. Kathleen M. Christie, B.A. (Brit. Col.), Assistant Professor.
- Miss Jessie B. Fleming, B.A. (Brit. Col.), Assistant Professor.
- Otto F. Fritze, M.A. (Acadia), Ed.M. (Harvard), Ph.D. (Alberta), Assistant Professor.
- Cary F. Goulson, M.A. (Brit. Col.), Assistant Professor. (On leave of absence 1963-64).
- Mrs. Maureen C. Hibberson, B.P.E. (Brit. Col.), M.A. (Oregon), Assistant Professor.
- Alfred E. Loft, B.A. (Brit. Col.), Assistant Professor.
- G. Gordon Manson, B.A., B.Ed. (Brit. Col.), Assistant Professor.
- Edgar B. Horne, B.A.Sc., M.A. (Brit. Col.), Instructor.
- Mrs. Marion A. Small, B.Ed. (Brit. Col.), Instructor.
- Robert Swailes, B.S.A. (Man.), M.Ed. (Brit. Col.), Instructor. (On leave of absence 1963-65).
- Walter Thummi, B.A., B.Ed. (Brit. Col.), B.Sc. (Sir George Williams), Instructor.
- John R. Cameron, M.A. (Brit. Col.), Lecturer.
- William K. Cross, B.Ed. (Brit. Col.), Lecturer.
- John F. Hall, A.M. (Stanford), M.S. (Oregon State), Lecturer.
- Donald Harvey, A.T.D. (Britain), Lecturer.

Miss Mary I. Saich, B.A. (Brit. Col.), Lecturer.
Steinn W. Steinson, B.A. (Sask.), M.A., D.Ed. (U.C.L.A.), Lecturer.

OTHER DEPARTMENTS

Accounting Department:

Robert W. McQueen, B.Com. (Brit. Col.), C.A., Accountant.
M. Warren Davidson, Purchasing Agent.
Dennis G. Davis, C.A., Assistant Accountant.

Buildings and Grounds — Gordon Head Campus:

Arthur J. Saunders, B.A.Sc. (Brit. Col.), Superintendent.

Book Store:

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

Counselling and Testing:

Miss Esme N. Foord, M.A. (Queen's), B.Paed., Ed.D. (Toronto), Assistant Professor,
Supervisor of Counselling and Testing.

College Health Service:

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

Library:

Dean W. Halliwell, M.A. (Sask.), B.L.S. (Toronto), Head Librarian.
Miss Priscilla R. Scott, B.A. (Brit. Col.), B.L.S. (Toronto), Head of Public Services
Division.
Leland Windreich, B.A. (Calif.), B.L.S. (Calif.), Head of Technical Processes
Division.
Denis A. Godson, B.A. (Brit. Col.), B.L.S. (Toronto), Head of Serials Department.
Michael J. McCahill, B.A. (Brit. Col.), B.L.S. (Toronto), Head of Cataloguing
Department.
Miss Ann Van der Voort, B.A. (Queen's), B.L.S. (Toronto), Head of Acquisitions
Department.
Miss Freda Bailey, B.A. (Brit. Col.), B.L.S. (McGill), Cataloguer.
Mrs. Gladys Cropp, B.A. (Brit. Col.), B.S. in L.S. (Washington), Part-time
Cataloguer.
Mrs. Joan Lawrence, B.A. (New Brunswick), M.Sc. in L.S. (Wisconsin), Part-time
Cataloguer.
Miss Alison Maude, B.A. (Minnesota), Circulation Librarian.
Mrs. Helen Rodney, B.A. (Alberta), B.L.S. (Toronto), Reference Librarian.
Harry Stastny, B.A. (Brit. Col.), B.L.S. (McGill), Reference Librarian.
Miss Grace Tuckey, B.A., B.S.W. (Brit. Col.), Curriculum Librarian.

Women's Activities:

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

Athletics:

Fred L. Martens, B.A., B.Ed. (Brit. Col.), M.Sc. in P.E. (Washington), Coordinator.

VICTORIA COLLEGE

In Affiliation with the University of British Columbia

VICTORIA COLLEGE offers courses leading to degrees in Arts, Science and Education and the First Year of Commerce and Business Administration. Since the courses are the same as those prescribed by the University of British Columbia, students receive credits that are recognized wherever the credits of the parent University are recognized.

Victoria College also offers work preparatory to degrees in Law, Medicine, Dentistry, Architecture, Social Work, and Library Science. Only the first year of work preparatory to degrees in Agriculture, Applied Science, Chartered Accountancy, Forestry, Nursing, Occupational Therapy, Physiotherapy, Optometry, Pharmacy, and Veterinary Medicine is given at the College.

In 1894, by Act of the Provincial Legislature, High Schools of the Province were permitted to affiliate with recognized Canadian Universities, in order to provide the first stages of higher education.

Eight years later, in 1902, Victoria High School applied for affiliation with McGill University, and in the Fall of 1903 Victoria College opened its doors as a separate institution to give the first year in Arts and Science under the aegis of McGill. Second year work in Arts and Science was undertaken in 1907.

In 1906, the Provincial Legislature passed an Act incorporating the Royal Institution for the Advancement of Learning of British Columbia. This Institution, in the same year, established at Vancouver the McGill University College of British Columbia, and in the following year Victoria College became part of this foundation.

In 1908, an Act was passed establishing and incorporating the University of British Columbia, and in 1915, when the University of British Columbia was opened, Victoria College was closed.

Five years later, however, in 1920, public opinion demanded that higher education again be made available in the Victoria area, and Victoria College was re-established — this time in affiliation with the University of British Columbia.

In 1945, by virtue of an Agreement signed by the Education Department, the University, and the Greater Victoria School Board, the academic direction of the College was placed in the hands of Victoria College Council, on which all three authorities were represented. Financial direction remained in the hands of the Greater Victoria School Board.

At the 1955 session of the Legislature, Victoria College was by Statute created a second institution of higher learning in British Columbia, affiliated with the University of British Columbia, and offering courses approved by the University in the Faculties of Arts and Science and Education. The Victoria Normal School was incorporated into Victoria College as a part of the College of Education, which, beginning September 1, 1956, assumed responsibility for the training of teachers. The affairs of Victoria College are vested in Victoria College Council consisting of eleven members.

The College is presently operating on a "split campus". Approximately one half of the students will attend lectures on the Lansdowne Campus and the other half on the Gordon Head Campus. The two areas are just over a mile apart; bus service is available for students who have to move from one campus to the other.

The Lansdowne Campus consists of 43 acres at the corner of Lansdowne and Richmond Roads and commands beautiful views of the City of Victoria, Juan de Fuca Strait, and the Olympic Mountains in the State of Washington. Here are situated the Ewing Building (Administration and Library) and the Young and Paul Buildings (Classrooms, Faculty Offices, Accounting Office and Book Store).

The Clearihue Building, the Student Union Building, several converted army huts, the Auditorium-Gymnasium and playing fields are all situated on the Gordon

Head Campus which comprises 280 acres. Here also the Science Building will be ready for occupancy late in 1963 and the Library late in 1964.

With its relatively small enrolment and its carefully selected Faculty, Victoria College offers an individualized education to its students.

IMPORTANT NOTICES

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

As the College Session is short, the student must be prepared to do intensive work from the first day of the session to the last. Unless the student adapts himself to these conditions, his chances of success are slight.

The Principal and Staff are most willing at all times to give direction or advice but the ultimate responsibility in the selection of courses rests with the students.

Regulation of Victoria College Council Forbidding Hazing and other Unauthorized Student Activities

The following are prohibited:

1. Hazing.
2. Any act by any student attending the College or by anyone at all causing injury or likely to cause injury to any person or damage to College property.
3. Bringing and/or consuming liquor within the precincts of the College, or in association with any function held under the name of the College.
4. The Victoria College Council considers unlawful entry of buildings on either campus as a very grave offence. Any such occurrence will be reported to and dealt with by the Council.

Any student violating the above regulations will be liable to immediate expulsion.

Victoria College is governed by the regulations of the University of British Columbia, of which the official statement is the University Calendar; this Calendar is a digest of such regulations.

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

Application for admission should be made as early as possible before August 15th, 1963, to the Registrar, Victoria College. Students registering for the first time must present their High School Graduation (University Programme) Certificates, and any higher certificates they may have obtained.

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 Victoria College, its Library has undertaken an accelerated programme of development and service. By the spring of 1963, the book collection totalled approximately 117,000 volumes and was growing at a rate of over 20,000 volumes annually. The Library regularly receives some 1025 periodicals, and has in addition a collection of long-playing records.

Under the Library's open-stack system, students have access to all books with the exception of Reserve Books and bound periodicals. The former Dewey Decimal Classification is now being replaced by the Library of Congress Classification; well-

trained staff members are always available to help the student make the fullest use of the Library's collection. Regulations governing loan periods and fines are published in the Students' Handbook and are displayed prominently in the Library. Full Library privileges are extended without charge to all Victoria College students and staff members, and may be granted to other persons upon application.

While classes are in progress during the Session 1963-64, the Library's hours of opening will be as follows:

Mondays through Fridays:	8:30 a.m. to 9:30 p.m.
Saturdays:	8:30 a.m. to 4:30 p.m.

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

COLLEGE BOOK STORE

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

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

PARKING

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

GENERAL CONDUCT

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

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.

Courses of Study

For the session of 1963-64 the College offers instruction in the four years of the Faculty of Arts and Science, in the first year of the Faculty of Commerce and Business Administration, and in five years of the Faculty of Education leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Commerce, and Bachelor of Education.

By a proper selection of First Year courses in Arts and Science, students may equip themselves to enter, at the University, the first year of Engineering, Forestry, Nursing, and the second year of Agriculture, Physical Education, Pharmacy.

Courses preparatory to Medicine, Dentistry, Law, Architecture, etc., may be taken at the College.

Board and Residence

A list of private homes where students may obtain full board and room, room and breakfast only, or light housekeeping accommodation may be obtained from the Registrar's Office or the office of Mrs. O. P. Noble who acts as Dean of Women. While the College 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 College for every student who applies. Students wishing to work for their room and board should apply to Mrs. Noble. Men and women students are not permitted to lodge in the same house, unless they are members of the same family, or receive permission from the Faculty. The cost of full board and room varies from about \$65 to \$80 a month. Students should ascertain whether they are being offered two or three meals a day at the price quoted. Light housekeeping accommodation is available from \$30 to \$45 a month.

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

Cafeterias

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

Transportation

Victoria College is situated on two campuses, located just over a mile apart, and students should be prepared to travel between these two areas. Bus service is available at a nominal charge and students are advised to include this transportation expense in their budget.

COUNSELLING, TESTING AND PLACEMENT OFFICES

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

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

(2) TESTING:

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

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

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

(3) NATIONAL EMPLOYMENT SERVICE

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

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

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

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

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

ADMISSION REQUIREMENTS

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

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

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

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

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

3. Admission with Advanced Standing:

- (a) An applicant, resident in British Columbia, who has completed Grade 13 of this province, may be given credit for subjects passed that are appropriate to his objective subject to the following conditions: (i) that at least three subjects be passed at one sitting of the Grade 13 Departmental examinations; (ii) that a full programme of at least five Grade 13 subjects be presented if the applicant cannot qualify under (i). A Grade 13 student who fails to obtain passes in at least three subjects at one examination period will be required to complete successfully the full Grade 13 programme of at least five subjects before his application for admission to the College can be considered.

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

A student once having been admitted to the College shall be subject to the College regulations in respect of supplemental examination privileges

and may not obtain standing for subjects subsequently completed by way of Grade 13 Departmental examinations and thereby circumvent these regulations.

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

- (b) An applicant who has completed work at another university or college, or has the equivalent of senior matriculation taken outside British Columbia may be given credit for subjects previously passed provided they are equivalent to courses offered in the College 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 College.

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 College.

4. Registration for one course only: Students taking one course only of the Regular Session offerings must register by mail through the Evening Division before September 14th. Registration without penalty must be completed before lectures begin on September 16th. On and after September 16th a late registration fee of \$5.00 will be charged.

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

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

6. Limitation of Attendance:

- (a) The College 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. Information concerning limitations on registration and attendance for the various faculties and schools is found in the sections of this calendar devoted to those faculties and schools.
- (b) Except in special circumstances, no student under the age of sixteen is admitted to the College.

REGISTRATION

Every student is required to state the names of all educational institutions of secondary or higher level attended and to submit evidence of the standing obtained at each.

1. Registration for New Students: As a preliminary step, a student applying for registration for the first time in the College must obtain from the Registrar's office an **Application for Admission** form. The completed form, together with necessary certificates and a recent passport-type photograph of the applicant, should be submitted by August 15th in the case of a student proposing to attend the Winter Session and by May 6th for the Summer Session. Following receipt of this form the applicant will, in due course, be advised with respect to his admission and standing, and, if eligible, given instruction on procedure for completing registration.

2. Re-Registration: A student in the regular Winter Session will be permitted to re-register by mail provided that his application is received by April 30th and that he will not be writing any supplementals or attending summer session. Otherwise, he will be required to re-register in person September 10th-13th.

Change of Programme: A student who wishes to transfer to another faculty or school within the College should notify the Registrar of his intention as early as possible before August 15th.

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: Except for those students permitted to register by mail, registration must be completed in person on the dates indicated in the Academic Year, page 5. Assessed fees are due and payable at the time of registration. No student will be permitted to complete registration until such fees have been paid.

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

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

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

In the information furnished for the College records, the student is requested to indicate his religious denomination. This information is available upon request to the representatives of the denominations.

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 21st.

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

5. Student Responsibility: Each student is responsible for the completeness and accuracy of his registration. He must ensure that there is no discrepancy between the programme he is following and that entered on his course card in the Registrar's office.

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

CLASSIFICATION OF STUDENTS

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

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

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

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

GRADUATION

Every candidate for a degree must make formal application for graduation. Application for graduation in the spring must be made not later than March 1st, and for graduation in the fall, not later than September 21st. Special forms for this purpose are provided by the Registrar's office. The names of successful candidates for degrees to be awarded in the fall will not be available until after the October Senate meeting.

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 Principal 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 Principal and medical certificates or other evidence must be presented for absence of three days or more.

EXAMINATION RESULTS

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

TRANSCRIPT OF ACADEMIC RECORD

A transcript of a student's academic record will, on request of the student, be mailed direct to the institution or agency indicated in the request. Each transcript must include the student's complete record at the College. Since credit earned is determined on the results of the sessional examinations a transcript will not include results of Christmas or mid-term examinations.

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

No transcript will be issued to or for a student who has not made arrangements satisfactory to the Accountant'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 3 for \$1.00.

WITHDRAWAL

Any student who after registration decides to withdraw from the College must report to the Registrar's office. He will be required to obtain clearance from the College, to the satisfaction of the Registrar, before being granted **Honourable Dismissal** or recommended, where applicable, for refund of fees.

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

SUPPLEMENTAL EXAMINATION CENTRES

Supplemental examinations may be written in August at the following centres: Cranbrook, Dawson Creek, Kamloops, Kitimat, Ocean Falls, Penticton, Powell

River, Prince George, Prince Rupert, Trail, Vancouver; and at Whitehorse, Y.T. Other centres outside of British Columbia are restricted to universities or their affiliated colleges.

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

The fee for each supplemental examination written at the College is \$7.50; at a regular outside centre, \$10.00; at a special centre, \$20.00. In the event that a candidate does not appear for an examination the refund will be \$5.00 only.

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

RE-READING OF EXAMINATION PAPERS

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

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

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

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

FEEES

1. The College reserves the right to change fees without notice.

2. All cheques must be certified and made payable to "Victoria College."

3. In the Winter Session, undergraduate students taking not less than 12 units are subject to the same fees as full-time students.

4. The schedules below for full-time and partial students give fees payable by students in each Winter Session, including the "Alma Mater" fee but not the "Graduating Class" fee.

5. The Alma Mater fee, authorized by Victoria College Council, is exacted from all students in the Winter Session for the support of the Alma Mater Society. This fee is \$24.00 for all students.

6. The Graduating Class fee, authorized by Victoria College Council, is exacted from all students in the winter session who are registered in the Final Year of a course leading to a Bachelor's degree. This fee of \$10.00 is for the support of the graduating class activities. Inquiries with respect to this fee should be directed to the Alma Mater Society.

7. In the Winter Session, no refund will be made for first term fees after October 26th, and for second term fees after January 25th. The following amounts will be charged for each week, or part of a week, prior to the date on which the student notifies the Registrar officially of his cancellation of registration, or his withdrawal from the College:

First Term — \$23.00 per week (\$22 tuition fee; \$1 Alma Mater fee).

Second Term — \$22.00 per week.

8. The first term fees must be fully paid before registration is accepted. Students are not entitled to admission to classes until they have registered. The second term fees may also be paid at registration and, in any event, become due and payable in full on the first day of lectures of the second term; students are advised to mail cheques for second term fees to the Accountant's Office before this date to avoid queuing at the cashier's desk.

9. A student whose second term fees are not fully paid by January 11th will be excluded from classes and his registration cancelled.

10. If a student, whose registration has been cancelled because of non-payment of fees, applies for reinstatement and his reinstatement has been approved by the Principal, he will be required to pay a reinstatement fee of \$10.00 together with all other outstanding fees before he is permitted to resume classes.

11. When permission to register late is granted a late fee, additional to all other fees, will be charged. The late fee is \$25 on September 16th, 1963, and \$25 plus \$5 per diem on and after September 17th, 1963. This fee must be paid at the time of registration together with the first term fees. Refund of this fee will be considered only on the basis of a medical certificate covering illness or on evidence of domestic affliction.

12. Fees are not transferable from one session to another.

13. The proceeds of scholarships and bursaries issued by or through the College will be applied in September against the total fees for the academic year:

- (a) If the amount of the award or awards is less than the first term fees, the balance of the first term fees must be paid by the student at the time of registration in September;
- (b) If the amount of the award or awards exceeds the first term fees but does not equal the total fees for the academic year, the award will be applied against the total fees at the time of registration in September and the balance of the fees must be paid by the student on or before the first day of lectures of the second term;
- (c) If the amount of the award or awards exceeds the total fees for the academic year, the total fees will be deducted from the award at the time of registration in September, the balance of the award being paid to the student at the beginning of the first and second terms in two equal instalments.

14. Students who incur Library and Parking fines will receive bills payable at the Accountant's Office.

15. All students registering for Chemistry are required to pay \$3.00 Chemistry Laboratory fee.

16. Students in the Faculty of Education are required to purchase, through the Book Store, gymnasium equipment costing approximately \$6.00.

Full-time Students

First Term Fees—Payable in full at the time of registration.

Second Term Fees—Payable in full on or before the first day of lectures in the second term. Students are advised to mail cheques for second term fees to the Accounting Office to avoid queuing at the cashier's desk.

Faculty and Course:	1st Term	2nd Term	Total
Arts and Science (B.A. or B.Sc.)	\$185.00	\$161.00	\$346.00
Commerce (B.Com.)	185.00	161.00	346.00
Education (B.Ed.)	185.00	161.00	346.00

Partial Students

1. For a course of 12 units or more:
The same as for full-time students.

2. For a course of less than 12 units:

First Term—Fully payable at the time of registration:

Alma Mater fee	\$24.00
Sessional fee per unit	11.00

Second Term—Fully payable on or before the first day of lectures of the second term:

Sessional fee per unit	11.00
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Extra-Sessional Courses

First Term—Fully payable at the time of registration:

Sessional fee per unit	\$11.00
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Second Term—Fully payable at time of registration (by cheque dated to January 6th, 1964, if preferred):

Sessional fee per unit	11.00
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Late Registration Fee	5.00
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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.

Summer Session

Fees payable on registration:

Per unit	\$22.00
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Late Registration Fee	10.00
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Special Fees

For late registration, Winter Session (on September 16th, 1963)	\$25.00
(\$25.00 plus \$5.00 per diem on and after September 17th, 1963.)	

For late registration, Extra-Sessional	5.00
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For late registration, Summer Session	10.00
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For reinstatement after cancellation of registration	10.00
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*Regular supplemental examination, per paper	7.50
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*Supplemental examination at regular centres, per paper	10.00
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Supplemental examination at special centres, per paper	20.00
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Re-reading, per paper	5.00
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- * Supplemental examination fees in respect to winter session supplementals must be paid when application for examination is made and not later than July 15th. In the event a supplemental examination is not written, the refund, whether application had been made to write at the university, at a regular centre or at a special centre, will be \$5.00 only. No refunds will be granted after August 31st. Special examination fees and fees for re-reading are payable with application.

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 3 for \$1.00.

SCHOLARSHIPS AND PRIZES

General Regulations

To be eligible for a general proficiency scholarship a student must take the full year's course, which must include the required courses for the year in which he is registered. Where credit has already been obtained in a required subject, however, another course may be substituted, with the permission of Faculty.

The standing of students taking more than the required number of units will be determined on the basis of the required number of units to be chosen in a manner most advantageous to the students.

The Committee on Prizes and Scholarships reserves the right to limit the amount of money retained by a student and/or to reassign scholarships (by reversion).

PERCY H. ELLIOTT MEMORIAL SCHOLARSHIP—One hundred and thirty dollars (\$130) awarded to a student of outstanding merit and promise in one specific field of study, who has also a high general academic standing, and qualities of character indicating worthiness to hold the scholarship. The scholarship is awarded, upon the recommendation of a Staff Committee, to a student in the First or Second Year and, unless service in the Armed Forces intervenes, proceeding immediately towards a University degree.

ROYAL INSTITUTION AND FRANK EATON MEMORIAL SCHOLARSHIP—Fifty dollars (\$50) awarded to the student taking the highest standing in English of the second year.

ALLIANCE FRANCAISE PRIZE—One hundred dollars (\$100) awarded to the student in the second year who has made the most progress in French and who intends to continue university work in this subject.

T. EATON COMPANY (Canada) LTD. SCHOLARSHIP—Two hundred dollars (\$200) awarded to a first year student of high standing in Mathematics 101 or 120, and, preferably, with a first-class average. The winner must continue at Victoria College.

KIWANIS SCHOLARSHIP—Two hundred and fifty dollars (\$250) awarded to a man student completing the first year and entering the second year at Victoria College. Selection of the recipient to be made by the Kiwanis Club of Victoria in conference with the College Faculty.

QUITA NICHOL BURSARIES—Two hundred dollars (\$200) donated annually to Victoria College 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 Victoria College for their second year or the University of British Columbia for their third year.

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 Victoria College or at any other university, provided the course desired is not available at Victoria College. When a student wishes to attend a university outside Canada, the reasons for such attendance should be submitted to the Executive of the University Women's Club for approval.

THE KATHLEEN AGNEW SCHOLARSHIP—One hundred and fifty dollars (\$150) donated for the purpose of stimulating the study of the History of Canada.

SIDNEY ROOFING AND PAPER COMPANY SCHOLARSHIP—Two hundred and fifty dollars (\$250) awarded to the leading student of the second year, on condition that he continues his university studies without interruption in the third year.

THE BRITISH AMERICA PAINT COMPANY SCHOLARSHIP—One hundred dollars (\$100) awarded annually to the leader of Second Year Chemistry.

VICTORIA GYRO CLUB SCHOLARSHIP—Two hundred dollars (\$200) awarded annually to a male student completing his first year at Victoria College. The recipient is to be selected annually by a committee of the Gyro Club, upon the recommendation of the Principal of Victoria College, on the basis of qualities of leadership, distinction of mind, and merit in games.

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY SCHOLARSHIPS—Scholarships totalling \$1,000 to be awarded for 1963-64 on terms to be arranged.

KINSMEN CLUB OF VICTORIA SCHOLARSHIP—Two hundred and fifty dollars (\$250) awarded annually to a student of Victoria College. The recipient is to be selected by a committee of the Kinsmen Club, on the basis of outstanding scholastic ability and promise, upon the recommendation of the College Faculty.

ESTHER PEARCE MEMORIAL PRIZE—Fifty dollars (\$50) awarded annually by Chapter N, P.E.O. Sisterhood, to a woman student in First Year for excellence in English.

JOHN WESLEY AND EMILY E. CHURCH MEMORIAL SCHOLARSHIP—One hundred dollars (\$100) awarded annually by Mr. W. J. V. Church and Mr. C. A. J. Church to the student winning highest standing in Latin (Latin 90 or Latin 110 or 120), or in Greek, or in Latin and Greek, in the first year, and continuing with the subject (or subjects) in the second year at Victoria College.

BRITISH COLUMBIA CEMENT COMPANY, LIMITED, SCHOLARSHIP—One hundred dollars (\$100) awarded annually to the student in First Year who obtains the highest standing in Chemistry and who intends to continue studies at Victoria College or at any other university.

THE ARTHUR S. DENNY SCHOLARSHIP—One hundred dollars (\$100) awarded annually by the Standard Furniture Company to the leader of the First Year Commerce Course proceeding to Second Year Commerce at the University of British Columbia.

CAMOSUN GYRO CLUB SCHOLARSHIP—The Camosun Gyro Club of Victoria will present a scholarship in the amount of \$150 annually to a promising and deserving student of the First Year at Victoria College going into Second Year. The selection of the candidate shall be left to the discretion of the Victoria College Scholarship Committee.

THE MADAME SANDERSON MEMORIAL SCHOLARSHIP—Fifty dollars (\$50) offered annually to a promising student of Victoria College for excellence in English and French of the Second Year.

THE BRITISH COLUMBIA TELEPHONE COMPANY SCHOLARSHIP—One hundred dollars (\$100) awarded to a student of First or Second Year for excellence in Physics. The winner must continue University studies.

THE BENNY NICHOLAS MEMORIAL AWARD—One hundred dollars (\$100) presented annually by the Victoria Daily Times to the student who submits the best essay, poem, play or article.

THE ISLAND TUG AND BARGE, LIMITED, SCHOLARSHIP—One hundred and fifty dollars (\$150) awarded annually to the student leading courses numbered 200 in any two of the following departments: Botany, Chemistry, Geography, Geology, Mathematics, Physics, Zoology. The winner must continue his academic work at an approved university.

VICTORIA MUNICIPAL CHAPTER, I.O.D.E. SCHOLARSHIP—One hundred dollars (\$100) awarded to the top Second Year student in Canadian History.

THE FRED SPENCER SCHOLARSHIP—One hundred dollars (\$100) presented annually by Spencer's Stores Limited to an outstanding First Year student who is planning a business career and who is either continuing his studies at a recognized university or is articled to a chartered accountant. The candidate is to be selected by the Victoria College Committee on Prizes and Scholarships.

- THE VANCOUVER ISLAND BRANCH, ENGINEERING INSTITUTE OF CANADA, SCHOLARSHIP—One hundred dollars (\$100) awarded annually to an outstanding student proceeding into Engineering at an approved university. The award is to be made by the Committee on Prizes and Scholarships at Victoria College.
- THE VICTORIA COUNCIL, UNITED COMMERCIAL TRAVELLERS OF AMERICA, SCHOLARSHIP—One hundred dollars (\$100) awarded annually to the leading student of the Humanities in the Second Year. The winner must continue university studies.
- THE 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 up engineering as a profession.
- THE ALAN PRATT MEMORIAL SCHOLARSHIP—One hundred dollars (\$100) awarded annually to a student with broad interests completing Second Year.
- 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 Victoria College.
- 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 at Victoria College and who intends to continue University studies.
- THE LADIES' AUXILIARY OF VICTORIA UNIT No. 12, ARMY, NAVY AND AIR FORCE VETERANS OF CANADA, GENERAL PROFICIENCY SCHOLARSHIPS—Two scholarships of one hundred dollars (\$100) each to be awarded annually to a deserving woman and to a deserving man completing First Year and continuing University studies.
- THE P. H. B. DAWSON BURSARY—Two hundred dollars (\$200) awarded annually by Mr. P. H. B. Dawson to an outstanding student of Victoria College who intends to continue University studies.
- THE WESTON BAKERIES, LIMITED, SCHOLARSHIP—Two hundred and fifty dollars (\$250) to be awarded annually to a deserving student completing First or Second Year at Victoria College and continuing University studies.
- THE WOODWARD STORES, LIMITED, SCHOLARSHIP—Two hundred and fifty dollars (\$250) to be awarded annually to an outstanding student completing First or Second Year at Victoria College and continuing University studies.
- THE VICTORIA MEDICAL SOCIETY SCHOLARSHIP—Two hundred and fifty dollars (\$250) to be awarded annually to a Second Year student of outstanding merit and promise, who has a high general academic standing and qualities of character indicating worthiness to hold the scholarship. Selection of the student will be made by the Faculty of Victoria College.
- RITHET CONSOLIDATED LIMITED BURSARY—One hundred dollars (\$100) to be offered to a promising student registered at Victoria College and continuing academic studies. Selection of the student will be made by the Faculty Committee on Prizes and Scholarships.
- THE TRI-SERVICES UNIVERSITY TRAINING SCHOLARSHIPS—Four scholarships of \$150 each, established by the Tri-Services Committee, are offered to students enrolled in the University Naval Training Division, the Canadian Officers' Training Corps, and the R.C.A.F. Reserve University Squadron on the campus. Of these scholarships one will be available to the members of each of the three units and one to the combined membership. To be eligible for the awards candidates must have completed at least the first phase of their practical and theoretical training with the units concerned and be proceeding with their University studies. Winners will be selected by the Scholarship Committee of the University, in consultation with the Commanding Officers of the units, on the basis of academic proficiency and on qualities of leadership as exhibited in the

training programmes. Financial circumstances of candidates may, however, also be considered. If no candidate is considered to be sufficiently well qualified the awards may be withheld.

VICTORIA ROTARY CLUB SCHOLARSHIP—One hundred and fifty dollars (\$150) to be awarded to the student taking the highest standing in First Year English.

THE BRITISH COLUMBIA 1958 CENTENNIAL SCHOLARSHIP—Five hundred dollars (\$500) to be awarded annually to a student who has completed at least one year at Victoria College and who is continuing University studies in the Province of British Columbia. The award will be made on the basis of scholastic achievement and effective participation in campus activities.

THE WEBER MEMORIAL BURSARY—One hundred dollars (\$100) to be awarded annually in memory of Mr. and Mrs. E. Weber, to the most deserving student in the Third Year at Victoria College. Academic standing, citizenship and need are all to be taken into consideration, and the award is to be made by the Committee on Prizes and Scholarships of Victoria College.

THE ROTARY CLUB OF DOUGLAS (VICTORIA) SCHOLARSHIP—One hundred dollars (\$100) to be awarded annually to the full-time Third Year student of Victoria College who obtains the highest standing in two upper year Psychology courses and is continuing studies at the College or at some other recognized university.

THE NORA LUGRIN SHAW MEMORIAL SCHOLARSHIP of sixty dollars (\$60.00) to be awarded annually to the student of History who writes the best essay dealing with the Magna Carta, The Petition of Rights and The Bill of Rights as the Fountainhead of Constitutional Liberties. The award is to be made by the Committee on Prizes and Scholarships of Victoria College on the recommendation of the History Department.

THE XI NU CHAPTER, BETA SIGMA PHI SORORITY ANNUAL BURSARY of twenty-five (\$25.00) to be awarded to a promising and deserving woman student of Victoria College in the Third Year of a course or courses in Philosophy, Psychology, Sociology, and proceeding to further university work, for books to be chosen in consultation with the winner who will be selected by the Committee on Prizes and Scholarships of Victoria College.

FALK AND DIXON VENDING SERVICE SCHOLARSHIP of fifty dollars (\$50.00) to be awarded annually to the student who writes the best term essay in English 200.

FACULTY WOMEN'S CLUB PRIZE of fifty dollars (\$50.00) to be awarded to a deserving woman student continuing studies at Victoria College either at winter or summer session.

THE EDWARD J. SAVANNAH MEMORIAL SCHOLARSHIP of one hundred and fifty dollars (\$150.00), subscribed by his friends and former students, to be awarded annually to a Victoria College student proceeding to Third Year Science at Victoria or elsewhere.

THE EDGAR FERRAR CORBET SCHOLARSHIP of two hundred and fifty dollars (\$250.00) to be awarded annually for proficiency in English to a Second Year student who is a graduate of a British Columbia public high school and who will be majoring or honouring in English in the Third Year.

THE LADY LAURIER CLUB SCHOLARSHIP of one hundred dollars (\$100.00) to be awarded annually by the Lady Laurier Club of Oak Bay to a worthy and deserving student entering Fourth Year at Victoria College and undertaking a course in Political Science. The selection will be made by the Committee on Prizes and Scholarships of Victoria College.

FRANCIS GOLD WRIST WATCH—To be presented each year by F. W. Francis, Ltd., to the student obtaining the highest average on the Sessional Examinations, with the provision that no student win it more than once.

BIRKS GOLD WATCH—Offered by Henry Birks & Sons (B.C.) Ltd., of Victoria, and awarded annually to a first-class student who has, in the opinion of the committee on Prizes and Scholarships, made a valuable contribution to student life.

ROSE'S LIMITED JEWELERS WATCH—To be awarded annually to the leading student in the College of Education at Victoria College.

Scholarships for which application must be made at Victoria College:

THE CANADIAN LEGION, B.E.S.L. (VICTORIA, B.C.) SIR PERCY LAKE MEMORIAL SCHOLARSHIP—Three hundred dollars (\$300) to be awarded annually to a worthy student of Victoria College on the recommendation of the Faculty. To be eligible, a student must be a veteran of World War II, or a son or daughter of a veteran of World War II or World War I, or the wife or widow of a veteran of World War II, and must continue his or her studies.

VICTORIA MUNICIPAL CHAPTER IMPERIAL ORDER OF THE DAUGHTERS OF THE EMPIRE SCHOLARSHIP—Seventy-five dollars (\$75) awarded annually to a first year student who is the child of a veteran of World War I or World War II. The recipient of the Scholarship must be recommended for general proficiency and worth by the College Faculty, and must continue university work into the second year.

KER SCHOLARSHIP—One hundred and fifty dollars (\$150) awarded to a student in the first year who is proceeding to the second year either at Victoria College or a Canadian university. The applicant must have been a cadet (Sea, Army or Air) for at least two years during his last three years of high school. If there be no such applicant, the Committee on Prizes and Scholarships may recommend for the award a student who has satisfactorily completed first or second year at Victoria College and is enrolled for service in one of the University training units. Application, together with a certificate from the Cadet unit concerned, must be made not later than April 30th. Selection of the winner is to be made by Faculty in consultation with the donor, Mr. R. H. B. Ker.

HUDSON'S BAY COMPANY SERVICE AWARD—A two-year Service Award offered by the Hudson's Bay Company (Victoria) is open in competition to students completing (a) First Year Commerce or (b) Second Year Arts and proceeding to a higher year. Preference will be given to students interested in Department Store Careers. To be eligible for this award applicants must qualify in respect to academic standing, ability, aptitude, and personality, and should be considering possible employment with the Hudson's Bay Company on graduation. Under the terms of the award whereby tuition fees will be paid and employment with the Hudson's Bay Company guaranteed during Christmas and Summer vacations and at other times such as Saturdays, one of the following plans will be followed: (a) For a Victoria College Second Year Arts student tuition will be paid for Third and Fourth years toward successful completion of the B.A. degree at Victoria College; (b) For a Victoria College Commerce student completing First Year Commerce, tuition fees will be paid for Second and Third Year Commerce at U.B.C., with a possible continuation, or renewal of award for final year Commerce studies toward successful completion of Bachelor of Commerce degree. Subject to satisfactory performance, a winner will, on graduation, be given an opportunity for an executive career with the Company. Interested students should apply at the office of the Supervisor of Counselling not later than February 15th.

VICTORIA UNIT No. 12, ARMY, NAVY AND AIR FORCE VETERANS IN CANADA, GENERAL PROFICIENCY SCHOLARSHIPS—Two scholarships of one hundred dollars (\$100) each, to be awarded annually to students registered in First or Second Year at Victoria College. Selections will be made by the Victoria College Scholarship Committee on the basis of applications submitted after

registration has been completed at the beginning of each academic year. Preference will be given to sons and daughters of veterans and particularly of those of the Army, Navy and Air Force Veterans Association, also to those who are not in receipt of any other scholarships.

VICTORIA WEST PARENT-TEACHER ASSOCIATION BURSARY—Fifty dollars (\$50) to be awarded for the Session 1962-63 to a student entering his Second Year at Victoria College who has taken the major portion of his elementary education at Victoria West Elementary School. Application to be made to the Scholarship Committee of Victoria College by October 1, 1963.

CANADIAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION AND RECREATION, INC. (GREATER VICTORIA BRANCH)—One hundred dollars (\$100) to be awarded annually to a student of Victoria College 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 Victoria College Scholarship Committee before October 1st in each academic year.

Scholarships available only for students in the Faculty of Education:

THE CLEARIHUE BURSARY—Three hundred dollars (\$300) awarded annually by Judge and Mrs. J. B. Clearihue to a promising and deserving student in the Faculty of Education, who shows promise and has at least a good second class average.

THE OPTI-MRS. CLUB BURSARY of \$150 awarded annually to a deserving student desirous of education in Teacher Training at the Faculty of Education.

OAK BAY KIWANIS SCHOLARSHIP—One hundred dollars (\$100) offered annually to a Victoria College 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 at Victoria College.

THE ROSALIND W. YOUNG SCHOLARSHIP—One hundred dollars (\$100) to be awarded annually by the University Women's Club of Victoria to the leading woman in First Year Education who is continuing University studies.

THE YORKSHIRE AND CANADIAN TRUST LIMITED SCHOLARSHIP—One hundred and seventy-five dollars (\$175) awarded annually to an outstanding student of Victoria College who is registered in the Faculty of Education. The winner must be continuing university studies leading to a B.Ed. degree. Selection will be made by the Committee on Prizes and Scholarships at Victoria College.

THE BRITISH COLUMBIA TEACHERS' FEDERATION SCHOLARSHIPS IN TEACHER TRAINING—The following scholarships, the gift of the British Columbia Teachers' Federation, are offered annually to students proceeding to a degree or certificate in the field of elementary or secondary school teaching.

- (1) Two scholarships of \$250 each, available to students continuing in the Faculty of Education, either in Vancouver or Victoria, from Grade XIII or First Year University.
- (2) Two scholarships of \$250 each, available to students continuing in the Third Year in the Faculty of Education. Students from Victoria College are eligible for these awards.

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, must be submitted to the University not later than May 15th.

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 Victoria College. An applicant must be actively engaged in teaching in the Province, must hold a B.C. Teaching Certificate, must have high academic standing (an overall average of at least Second Class, in terms of University of British Columbia grades, with First Class in the particular area or areas in which he proposes to major), and must give assurance of returning to educational service in British Columbia on completion of his University studies. The awards are of two types: (a) two scholarships of \$1500 each for teachers taking leave of absence to proceed in a full programme of studies in the regular winter session toward a B.Ed. degree. One scholarship is for the elementary field, the other for the secondary field. (b) Four scholarships of \$250 each for teachers proceeding in a full programme of studies in the summer session toward the B.Ed. degree. Two of the scholarships are for the elementary field and two for the secondary field. The completed application form and all necessary documents must be received by Dean Walter H. Gage, University of British Columbia, Vancouver 8, B.C., not later than March 15th.

THE DR. H. B. KING MEMORIAL SCHOLARSHIP IN EDUCATION—This scholarship of \$150 has been established by the B.C. Association of District Superintendents and Inspectors of Schools as a memorial to Dr. H. B. King, who from 1939 to 1945 was Chief Inspector of Schools for British Columbia. For many years prior to 1939 Dr. King also served the Province of British Columbia with distinction and devotion as a teacher and principal, and as a technical adviser with the Department of Education. This scholarship will be awarded to a student who is proceeding to a degree or certificate in the teaching field and is taking a full course in the Second Year at the Faculty of Education (Vancouver or Victoria). The award will be made on the basis of academic standing, personal qualities, interest and participation in school and community affairs, aptitude for teaching, and other factors. Applications, on forms obtainable from the Dean of Inter-Faculty Affairs must be submitted to the University not later than May 15th.

THE WILLIAM A. AND FRANCES E. HARPER SCHOLARSHIP—Seventy-five dollars (\$75.00) to be awarded annually to a deserving and promising student in the Faculty of Education at Victoria College.

THE MARIAN D. JAMES MEMORIAL AWARD—Fifty dollars (\$50.00) 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 CHARLES E. (CHUCK) COPELAND MEMORIAL BURSARY of one hundred dollars (\$100.00) to be awarded annually by Mrs. C. E. Copeland, Senior, in memory of her son, Charles E. (Chuck) Copeland, to a promising and deserving student who is entering Second, Third or Fourth Year in the Faculty of Education at Victoria College.

GOVERNMENT OF BRITISH COLUMBIA SCHOLARSHIPS

These awards are available to students of the Province of British Columbia who are beginning or continuing a full programme of undergraduate studies at the University of British Columbia or Victoria College, 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 1963-64 will be considered on the basis of standing received in the final examinations (excluding supplementals) in a full programme for the session 1962-63 in a full year's work. Candidates in the University of British Columbia or Victoria College must take the final written examinations conducted by the University or College in April; those in Grade XII or XIII must write the examinations conducted in June by the Depart-

ment of Education, B.C. Candidates will be considered only if they fulfill requirements of being domiciled in British Columbia, to the satisfaction of the Government Awards Committee. Eligible applicants who obtain First Class standing (an overall average of at least 80%) will receive a grant of one-half the tuition fee. Awards, amounting to one-third the tuition fee, will also be made to the top Second Class students, up to the number of two thousand. All candidates must submit applications on special forms. Fuller and more precise details concerning these awards are available in a special circular issued by the Department of Education, B.C. Students at the College must apply through the College before July 10th; High School students must apply through their schools before June 1st.

The following scholarships are open to students who have completed University Entrance and are proceeding to Victoria College.

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 Victoria College or the University of British Columbia.

VICTORIA WOMEN'S CANADIAN CLUB SCHOLARSHIPS—(1) One hundred and fifty dollars (\$150) awarded to the female student attending a public high school in Greater Victoria School District (No. 61) who makes the highest standing in the University Entrance Examination, held in June, and registering for a full first year course in Victoria College or the University of British Columbia, the following September.

(2) One hundred and fifty dollars (\$150) awarded to the male student in Greater Victoria School District making the highest standing in the same examination and under the same conditions. Should the student, in either case, be awarded a scholarship from any other source, the Club Scholarships shall then revert to the student having the next highest standing.

UNIVERSITY SCHOLARSHIPS FOR UNIVERSITY ENTRANCE, School District No. 61, and School Districts Nos. 62-74—Two general proficiency scholarships of two hundred and twenty-five dollars (\$225) will be awarded on the results of the High School Graduation (University Programme) Examinations. The winners must attend either the University of British Columbia or Victoria College (District 61-66 only).

THE CHRIS SPENCER FOUNDATION SCHOLARSHIPS FOR UNIVERSITY ENTRANCE—Two scholarships of \$275 each, the gift of the Chris Spencer Foundation, will be awarded to the candidates selected by the University to receive the University Scholarships for University Entrance described above. Through this gift each of the winners will therefore receive a total scholarship of \$500. These supplementary scholarships are subject to the same conditions and regulations as those governing the University Scholarships for University Entrance.

THE CHRIS SPENCER FOUNDATION SPECIAL SCHOLARSHIPS—Two scholarships, each of the value of \$500 a year and renewable annually for a maximum of five years (to a total of \$2500), are offered to students entering the University of British Columbia or Victoria College from Grades XII or XIII and proceeding to a degree at this University. These scholarships, the gift of Chris Spencer Foundation, are available only to students whose ordinary private domicile, home, or residence is in the province of British Columbia. Applicants will require high scholastic standing. They will be considered, not only on the basis of this standing, but also on their interest and participation in activities such as sports, student government, youth groups in and out of school, and fine arts and music. Special attention will be given to the qualities developed through these activities and of indication during the period of high school, of moral force of character and of instincts to lead and take an interest in classmates. Students holding these scholarships in any year of their course will be permitted to retain them for the following year only provided they obtain an average of at least 80% in the Sessional examinations or rank in the upper 10% of their class (i.e.

the year and faculty in which they are registered). Selection of applicants will be made by a committee representing the Foundation and the University. Applications, on forms obtainable from the office of the Dean of Inter-Faculty Affairs, should be received by April 15th, and cannot be accepted after May 1st.

THE BRITISH COLUMBIA ELECTRIC COMPANY LIMITED SPECIAL SCHOLARSHIPS—Five scholarships of not less than \$200 each are offered annually by the British Columbia Electric Company Limited to sons and daughters of employees of the Company who are beginning or continuing their undergraduate studies in any faculty at the University. Winners of scholarships, however, whose homes are in Victoria or its vicinity may, if they wish, attend Victoria College. These scholarships will be awarded on the recommendation of the Joint Faculty Committee on Prizes, Scholarships and Bursaries to applicants who have outstanding records of scholastic achievement and are deserving of financial assistance. Application must be made to the Dean of Inter-Faculty Affairs not later than August 1st. Applications should state particulars of family service with the Company.

BRITISH COLUMBIA FOREST PRODUCTS LIMITED ENTRANCE SCHOLARSHIPS—Eight scholarships of \$300 each are offered by British Columbia Forest Products Limited to sons and daughters of employees who, by June 30th 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 Victoria College). Candidates for these scholarships must write a full set of scholarship examinations conducted in June by the Department of Education, B.C. The scholarships will be awarded to the eight candidates obtaining highest standing. No award will be made, however, to an applicant with an overall average of less than 70%. Applicants for these scholarships must complete the General Application for Scholarship form, which may be obtained from the Dean of Inter-Faculty Affairs, University of B.C. This application must be received by the University not later than May 15th and must contain the necessary details of family service with the Company. Before June 1st they must also complete and submit, through the school principal, the special form required by the Department of Education from all those writing the scholarship examinations.

THE FEDERATION OF TELEPHONE WORKERS OF BRITISH COLUMBIA, PLANT DIVISION SCHOLARSHIP—The Federation of Telephone Workers of British Columbia, Plant Division, offers a scholarship of \$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 Victoria College. 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, 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 not later than May 15th by completing the "General Application for Scholarship" form. Applications should contain details of family service with the Federation and other pertinent information.

U.B.C. ALUMNI ASSOCIATION REGIONAL SCHOLARSHIPS—Alumni contributions to the Annual Giving Programme of the U.B.C. Development Fund have made possible the establishment of forty-two regional U.B.C. Alumni Association Scholarships of \$300 each. These scholarships are available to students proceeding from Grade XII (High School Graduation, University Programme) or Grade XIII to the University of British Columbia or Victoria College. One scholarship will normally be awarded in each of the Provincial Electoral Districts. Winners will be selected by a special committee representing the University and the Alumni Association. Application forms may be obtained from Dean Walter H. Gage, University of B.C., Vancouver 8, B.C., and completed application forms should be received by April 15th, and cannot be accepted after May 1st. All

applicants must write a full set of High School Graduation (University Programme) or Grade XIII examinations conducted by the Department of Education, British Columbia, in June.

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 Victoria College), in a full programme leading to a degree in any field. To be eligible applicants must have been carriers of The Vancouver Sun for at least two years. The scholarships will be awarded to the two applicants who rank highest on the basis of the marks obtained in the written examinations for High School Graduation (University Programme), conducted in June by the Department of Education, B.C. Applicants must write a full set of examinations in the scholarship subjects prescribed by regulations of the Department and the University. Winners who obtain and maintain First Class standing (or who, in successive years of their undergraduate course, rank in the top 10% of the Faculty and Year in which they are registered) will be eligible for renewals of \$500 a year until graduation, not exceeding a total of five payments in all. Selection of the winners will be made by the University. A student who wishes to be considered for one of these scholarships must apply by letter to Dean Walter Gage, University of British Columbia, Vancouver 8, B.C., not later than May 15th. 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 Victoria College), in a full programme leading to a degree in any field. To be eligible an applicant must have been a carrier for the Vancouver Sun for at least two years, and must take the written examinations for High School Graduation (University Programme), conducted in June by the Department of Education, B.C. All applicants must write a full set of examinations in the scholarship subjects prescribed by the regulations of the Department and the University. 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 is the most outstanding in combining high scholastic attainment with achievement in one or more areas such as service to the school and community, writing, drama, fine arts; debating and public speaking; sports. A winner who, in successive years of his undergraduate course, obtains and maintains First Class standing (or ranks in the top 10% of the Year and Faculty in which he is registered) will be eligible for renewals of \$500 a year until graduation, not exceeding a total of five payments in all. All candidates must complete the "General Application for Scholarship Form" obtainable from Dean Walter H. Gage, University of B.C., Vancouver 8, B.C. The completed application, accompanied by the service certificate of The Vancouver Sun must be received by the University not later than May 15th. Candidates will be judged on the basis of their examination grades, their personal letters (see application form for details), and letters of recommendation from their references. The winner of this scholarship, while not also permitted to hold one of the Vancouver Sun Scholarships for Carriers, may accept other awards offered to him.

THE YARROWS LIMITED ENTRANCE SCHOLARSHIP—A scholarship of \$1000 for sons, daughters, or legal dependents of employees of Yarrows Limited, Victoria, is offered annually under terms and conditions identical to those of the Burrard Dry Dock Company Limited Scholarship. If the winner so desires, however, attendance at Victoria College will be accepted in lieu of attendance at the University. Candidates must apply on special forms which may be obtained from, and must be returned to, Yarrows Limited before May 30th. Selection of the winner will be made by the University in consultation with Victoria College.

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 Victoria College) 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 30th on special forms obtainable from the Personnel Department of any Woodward store, will be considered on the basis of (a) academic standing; (b) activity and interest in youth programmes and organizations (within the school and community); and (c) personal qualities, character, and demonstration, during attendance at school, of citizenship, leadership, and service. Renewals are subject to maintenance of satisfactory standing, progress, and conduct.

STANDARD OIL COMPANY OF BRITISH COLUMBIA LIMITED ENTRANCE SCHOLARSHIP—Standard Oil Company of British Columbia Limited offers a scholarship worth \$2000 to students who are residents of British Columbia and are proceeding in the fall to studies in the First Year at the University of British Columbia, (or Victoria College) or other approved Canadian university of recognized standing, in a full course leading to a degree. Candidates must write a full set of scholarship examinations for High School Graduation (University Programme) conducted in June by the Department of Education, Victoria, B.C. The scholarship will normally be awarded to the eligible applicant obtaining highest standing in these examinations. Should this applicant win another award, however, the scholarship may be given, at the discretion of the University, 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 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 or College, 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. All candidates for this award must, by May 15th, notify the Dean of Inter-Faculty Affairs, University of British Columbia, of their intention to compete. Before June 1st, 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.

STANDARD OIL COMPANY OF BRITISH COLUMBIA LIMITED SPECIAL SCHOLARSHIP—Standard Oil Company of British Columbia Limited offers a scholarship worth \$2000 to children or wards of employees or annuitants of the Standard Oil Company of British Columbia, or of deceased employees who die while in the employ of the Company or as annuitants of the Company, and who have or had not less than one year of service with the Company. It will be open in competition to students proceeding in the fall to the First Year at the University of British Columbia (or Victoria College), or other approved Canadian university of recognized standing, in a full course leading to a degree. Candidates must write a full set of scholarship examinations for High School Graduation (University Programme) conducted in June by the Department of Education, Victoria, B.C. The scholarship will normally be awarded to the eligible applicant obtaining highest standing in these examinations. Should this applicant win another award, however, the scholarship may be given, at the discretion of the University, 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 are also applicable to this scholarship. The winner of this award will receive \$500 during the first year of attendance at the University or College, 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. All candidates for this award must, by May 15th, notify the Dean of Inter-Faculty Affairs, University of British Columbia, of their intention to compete. Essential details of family service with the Company must also be supplied. Before June 1st they must also complete and submit, through the school principal, the special form required by the Department of Education from all candidates writing the scholarship examinations.

SUPER-VALU STORES LTD. SCHOLARSHIP—Super-Valu Stores Ltd. offers, in competition, a scholarship worth \$1500 to students with High School Graduation (University Programme) standing, who, in September, 1961, will proceed to a full course of studies in the First Year at the University of British Columbia (or Victoria College) leading to a degree in any field. To be eligible a candidate must be a regular full or part-time employee of Super-Valu Stores Ltd. or a son, daughter, husband, or wife of such an employee. The scholarship, payable in three annual amounts of \$500 each, will be awarded on the basis of the written examinations for University Entrance, conducted in June by the Department of Education, B.C. Applications must be filed with the University not later than May 15th.

THE ROYAL ARCH SCHOLARSHIP—Two 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 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 Victoria College). Candidates for these scholarships must (a) write a full set of scholarship examinations conducted in June by the Department of Education, B.C.; (b) complete the General Application for Scholarship Form, which may be obtained from the Dean of Inter-Faculty Affairs, University of B.C. This application form, which is to be received by the University not later than May 15th, must clearly indicate (i) the applicant's relationship to a member or deceased member of the Royal Arch Masonic Order, the name of the member, and the name of the Chapter with which he is or was connected; and (ii) the applicant's financial circumstances and those of his or her immediate family. Only candidates who obtain an overall average of 70% in the Department examinations will be considered. If, in the opinion of the University, no applicant is suitably qualified, the award will be withheld.

THE INTERNATIONAL LONGSHOREMEN'S AND WAREHOUSEMEN'S UNION ENTRANCE SCHOLARSHIPS—Three scholarships of \$400 each are offered to members, and sons and daughters of members, in good standing, of the International Longshoremen's and Warehousemen's Union. They will normally be awarded to the candidates who obtain the highest standing in Grade XII or XIII written examinations conducted in June by the Department of Education, Victoria, B.C., and who are proceeding in the fall to a full programme of studies at the University of B.C. (or Victoria College). Students who wish to compete for these awards must apply on the General Application Form for Scholarships, which may be obtained from the office of the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C. The completed application must be received at the University by May 15th. 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.

BURSARIES

Government Bursaries—The Government of the Province of British Columbia (with a contribution also from the Federal Government) provides funds annually for the award of bursary assistance to selected capable persons who can show financial need and who fulfill 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 Victoria College, 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 Victoria College (e.g., dentistry, 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 5th. Application forms may be obtained from the

Department of Education, Victoria, B.C., from the Dean of Inter-Faculty Affairs of the University, from Victoria College, or, where the student is attending school, from the principals of senior high schools.

The B.C. Government Employees' Association Bursaries—Two bursaries of \$150 each, the gift of the B.C. Government Employees' Association, are offered annually to sons and daughters of members, or of deceased members, and to members themselves. They will be awarded, on the basis of scholastic standing and financial need, to students who are beginning or continuing their undergraduate studies at the University of British Columbia or Victoria College. Selection of the winners will be made by the University in consultation with the Association. Further details may be obtained by writing to the Dean of Inter-Faculty Affairs, University of British Columbia.

British Columbia Forest Products Limited Bursaries—Bursaries to a total of \$4300, each with a maximum value of \$200, are offered by British Columbia Forest Products Limited to sons and daughters of employees who, by June 30th 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 Victoria College). Awards will be made at the discretion of the University to students selected on the basis of their academic standing and need for financial assistance. No award will normally be made, however, to a candidate who obtains an overall average of less than 60% or who is required to write supplementals to obtain clear standing in a full year's work. Winners of the Company's Entrance Scholarships will not be permitted to receive a Company Bursary in the same year. All candidates must apply on the Special Bursary form, which may be obtained from the Dean of Inter-Faculty Affairs, University of B.C. This application must be received by the University not later than August 1st and must contain the necessary details of family service with the Company.

The Khaki University and Young Men's Christian Association Memorial Fund Bursaries—A sum of money given to the University by the administrators of the Khaki University of Canada provides a fund from which are awarded annually five bursaries of the value of \$100 each, known as the Khaki University and Young Men's Christian Association Memorial Bursaries. Under conditions specified by the donors these bursaries may be used for undergraduate purposes only, and in making the awards a preference is given to the sons and daughters of soldiers of the First Great War. The financial necessities of candidates are also taken into account. To be eligible for an award a soldier's dependent must obtain at least Second Class standing, i.e., 65 per cent.; for all others 75 per cent. is required. Dependents of soldiers and others who have attained the standing as stated above and who are in need of financial assistance should apply not later than August 1st. These bursaries are also open to students from Victoria College proceeding to a course of study in the University.

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, in consultation with the Commanding Officer. Applications, on forms available from the Dean of Inter-Faculty Affairs, must be submitted to the University not later than August 1st.

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 (or Victoria College) 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.

Naval Officers' Association of British Columbia Bursary Loans—Bursary Loans not exceeding \$300 each, up to an aggregate amount of \$600, provided by the Naval Officers' Association of British Columbia, are offered to students beginning or continuing studies at the University (including 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 must be filed not later than September 1st.

The Department of Social Welfare, Province of British Columbia, Bursary in Social Work—A bursary of \$1000, established by the Department of Social Welfare, Province of British Columbia, is offered annually to graduates of the University of British Columbia or Victoria College 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.

AWARDS MADE BY OTHER INSTITUTIONS

The Grand Lodge Masonic Bursaries—The Grand Lodge of Ancient 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 from applicants with satisfactory academic standing who are beginning or continuing undergraduate studies at the University of British Columbia or Victoria College in a full programme leading to a degree in any field. First preference will be given to applicants entering the University or College from Grades XII and XIII, then to undergraduates who were assisted in a previous year, and finally, to others. In order to be considered, a candidate must obtain from the office of the Dean of Inter-Faculty Affairs, University of B.C., Vancouver 8, B.C., a Special Bursary Application form. The completed application must be received by the University not later than August 1st. If the applicant is the son, daughter, or legal ward of a member of the Lodge the application must be accompanied by a letter giving the name and address and details of the lodge with which the applicant's immediate family is or has been associated.

The Rhodes Scholarships

The Rhodes Scholarships—The Rhodes Trustees offer annually for award in the Province of British Columbia one Rhodes Scholarship of the value of £750 a year. At most Colleges, and for most men, this sum is scarcely sufficient to meet a Rhodes Scholar's necessary expenses for term-time and vacations, and Scholars who can afford to supplement it by, say, £50 a year from their own resources are strongly advised to do so. The cost of the voyage to and from England must be borne by the Scholar.

The Scholarship is tenable ordinarily for two years at Oxford University. A third year (at Oxford or elsewhere abroad) may be authorized in proper cases.

A candidate must be an unmarried male Canadian citizen or British subject domiciled and resident for five years in Canada. He must be in his second year at least of work in a Canadian university and may apply either in the province of his residence or of his university, if these differ. A candidate for the scholarship for 1962 must have passed his 19th birthday but not have reached his 25th birthday by October 1st, 1962.

In that section of the Will in which he defined the general type of scholar he desired, Mr. Rhodes mentioned four groups of qualities, the first two of which he considered most important:

1. Literary and scholastic attainments;
2. Qualities of manhood, truth, courage, devotion to duty, sympathy, kindliness, unselfishness, and fellowship;
3. Exhibition of moral force of character and of instincts to lead and to take an interest in his fellows;
4. Physical vigour, as shown by fondness for and success in outdoor sports.

Some definite quality of distinction, whether in intellect or character, or both, is the most important requirement for a Rhodes Scholarship, and it is upon this that Committees will insist. Success in being elected to office in student organizations may or may not be evidence of leadership in the true sense of the word. Mr. Rhodes evidently regarded leadership as consisting in moral courage and in interest in one's fellow men quite as much as in the more aggressive qualities. Physical vigour is an essential qualification for a Rhodes Scholarship, but athletic prowess is of less importance than the moral qualities developed in playing outdoor games. Financial need does not give a special claim to a Scholarship.

A candidate for a Scholarship is required to make application by November 1st, 1961, and, if elected, to go to Oxford in October, 1962. Further information and application forms may be had from the Dean of Inter-Faculty Affairs, University of British Columbia, Vancouver 8, B.C.

For Graduate Study

British Columbia Library Association Bursary—One or more bursaries, given by the British Columbia Library Association, are available annually for students intending to adopt librarianship as a profession. To be considered an applicant must be eligible for acceptance in the University of British Columbia School of Librarianship, and must plan to attend that School. The recipient will be selected on the basis of scholarship, personality, ability to work with others, aptitude for library work, physical fitness and financial need. It is to the student's advantage to have had some library experience. Application forms and further information may be obtained from the Director of the School of Librarianship, U.B.C., or from Miss T. G. Rhodes, B.C. Telephone Co. Library, 768 Seymour St., Vancouver 2, B.C.

British Council Scholarships—The British Council offers scholarships to overseas students, normally tenable at universities and other educational institutions in the United Kingdom. The awards are mainly for men and women who have already completed university degree courses or who have equivalent professional qualifications. Preference is given to candidates between 25 and 35 years of age. The scholarships are normally for one academic year of 10 months or for two academic years (22 months), according to the duration of the approved course of study. A full scholarship is intended to cover all expenses of maintenance and study, and includes fares, fees, personal maintenance, a grant for books and apparatus and approved travelling expenses in the United Kingdom. Inquiry should be directed before the middle of October to the Executive Secretary, National Conference of Canadian Universities, 77 Metcalfe St., Ottawa 4, Ontario.

The Canada Council Awards—The Canada Council offers scholarships, fellowships and grants in the field of the arts, humanities, and social sciences. These include pre-master's degree scholarships; pre-doctor's degree fellowships; senior research fellowships in the humanities and social sciences; senior arts fellowships for musicians, artists, writers and other workers in, and teachers of, the arts; arts scholarships for artists, musicians, writers and other workers in the arts; scholarships for secondary school teachers and librarians; scholarships for arts teachers and professional staff members of art galleries and museums; grants in aid of research and other productive scholarship; fellowships of one year duration for non-residents for study or teaching

in Canada in the arts, humanities, and social sciences; fellowships for journalists, broadcasters and film-makers; and special awards. Requests for application forms should be sent to The Secretary, The Canada Council, 140 Wellington Street, Ottawa, Canada.

Canadian Federation of University Women Fellowships—The Travelling Fellowship of the Canadian Federation of University Women, of the value of \$2500, available for study or research work, is open to any woman holding a degree from a Canadian university. In general, preference will be given to those candidates who have completed one or more years of graduate study and have a definite course of study or research in view. The award is based on evidence of character, intellectual achievement, and promise of success in the subject to which the candidate is devoting herself.

The Margaret McWilliams Fellowship, \$2000, 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. The award will be based on evidence of character, achievement and promise. Preference will be given to candidates who have started their graduate work and who have a definite course of study on research in view.

The Junior Fellowship of the Canadian Federation of University Women, of the value of \$1500, is open to any woman holding a degree from a Canadian university. Preference will be given to students who have studied in only one university and who desire to continue their studies in another.

The Professional Fellowship of the Canadian Federation of University Women, of the value of \$1000, is open to any woman holding a degree from a Canadian university, who is not more than 35 years of age at the time of award. Preference will be given to candidates who have completed one or more years of professional work and who desire to spend a year at an accredited Library School, College of Education, School of Social Work or similar professional school.

The proposed place and plan of study or research must be approved by the Fellowships Committee.

Application blanks and further information may be obtained from Dr. May Smith, 2424 Crown Crescent, Vancouver 8, B.C. Applications and recommendations must be received not later than February 1st.

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 31st. For the dates of countries below the Equator and other details of Commonwealth Scholarships write to The Canadian Universities Foundation, 77 Metcalfe Street, Ottawa.

Consolidated Mining and Smelting Company Graduate Research Fellowship—The Consolidated Mining and Smelting Company offers annually ten Graduate Research Fellowships. Each fellowship has the value of \$3000 of which \$2200 will be granted to the holder and \$800 to the University for the department in which research investigations are undertaken. At least five of the awards will be made to graduates undertaking study and research leading to an advanced degree in Canadian universities west of Ontario. They are open to any Canadian citizen who is a graduate in pure science, applied science, or agriculture of a recognized university who is planning research at a Canadian university leading toward a higher degree. The subject of the research investigation shall be in the same field of pure or applied science bearing some relationship to the broad technical interests of the Company in the fields of mining, geology, metallurgy, chemistry, chemical engineering, physics, agriculture, and electrical, mechanical and civil engineering. Application forms, required in quadruplicate, may be obtained from the Dean of Inter-Faculty Affairs. They must be sent to the Secretary, Canadian Universities Foundation, 77 Metcalfe St., Room 205, Ottawa 4, Ontario, and must be received not later than February 1st. An application must be supported by letter of approval from the appropriate university authority stating that the applicant's plan of study and research has been accepted and may be undertaken at the university.

French Government Scholarships—Scholarships of the present value of approximately \$800 are donated by the French Government for graduate study in France. They are tenable for an eight-month period. Travelling expenses for the return to Canada and university fees are defrayed by the French Government. These scholarships are open to students of all faculties. Candidates must, however, produce satisfactory evidence that they are able to profit by instruction given in French. The awards are made by the French Embassy on the recommendation of the University, from whom further information may be obtained.

The 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 \$4800 each (\$1600 a year for a maximum of three years). In addition each fellowship may be supplemented by an amount of \$900 if the fellow continues his thesis work during the summer months. A fellow may not hold concurrently other awards which annually equal or exceed the value of the regular Imperial Oil payments (\$1600). An annual grant of \$1250 per individual is made to each Canadian university at which fellows are pursuing their research studies. The fellowships are open to any graduate of an approved university in Canada and are offered in the following fields: pure and applied natural and/or exact sciences, including mathematics—3 fellowships; 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 of the Imperial Oil Scholarship Committee, Imperial Oil Limited, 111 St. Clair Avenue West, Toronto 7, not later than March 1st of each year.

Imperial Order Daughters of the Empire War Memorial I Scholarship (Overseas)—This fund was established by the I.O.D.E. in order to perpetuate the memory of the men and women who gave their lives in the defence of the Empire in the First Great War. Graduate scholarships to the value of \$2000 each are offered annually, one in each province of Canada. Each candidate must have done or be doing post-graduate work. The conditions under which they are awarded may be obtained from the Dean of Inter-Faculty Affairs, or from the Education Secretary of the Provincial Chapter, I.O.D.E., 9031 Hudson St., Vancouver 14, B.C. Applications must be submitted by October 15th 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 post-graduate scholarships to the value of \$2000 each are to be offered annually in Canada. Each candidate must have done or be doing postgraduate work. In view of the fact that for many years the emphasis for advanced study has been placed on science rather than on the humanities, these scholarships provided under War Memorial II will be offered annually to carry on postgraduate work in History, Philosophy, English or French Literature. The conditions under which they are awarded may be obtained from the Dean of Inter-Faculty Affairs, or from the Educational Secretary of the Provincial Chapter, I.O.D.E., 9031 Hudson St., Vancouver 14, B.C. Applications must be submitted by October 15th of each year.

The Johnson's Wax Fund Scholarship Award—The Johnson's Wax Fund, Racine, Wisconsin, through S. C. Johnson and Son, Limited, Brantford, Ontario, offers an award to pay for one year the reasonable expenses for travel to and study in the United States of at least one worthy and needy student (at a university or college of his or her choice) in postgraduate fields such as Economics, Business Administration, Chemistry, Engineering, Law, Medicine, Teaching, etc. An applicant must be a Canadian citizen, and must be recommended for the award by his or her university. Preliminary applications must be in Brantford by December 15th, accompanied by a letter of recommendation from the dean of the faculty or some other appropriate official. For further details consult the Dean of Inter-Faculty Affairs.

The Mackenzie King Travelling Scholarships—These scholarships of not less than \$1500 each are available for graduates of any Canadian university who propose to engage, either in the United States or the United Kingdom, in postgraduate studies in the fields of international or industrial relations. Information may be obtained from Dean Walter H. Gage, University of B.C., Vancouver 8, Canada. Applications for those proposing to proceed to study in the fall of any year must be submitted by the previous March 1st.

National Research Council Bursaries and Studentships—The National Research Council awards annually a number of bursaries and studentships for graduate work. These are open to selected graduates in science and engineering who have shown distinction in their undergraduate studies. The values of the awards are as follows: bursary, \$2000 and studentship, \$2400. Students receiving these awards will be expected to spend the summer months in their research, and if they do not do so, the award will be reduced. Also available are a limited number of special scholarships for postgraduate study outside Canada and post-doctorate fellowships for those who have completed their work for the Ph.D. degree. These fellowships may be held either in Canada or abroad. Applications must be received in Ottawa before February 1st. Application forms and regulations governing the awards may be obtained from heads of departments, the Dean of Inter-Faculty Affairs, or from the Awards Officer, National Research Council, Ottawa 2.

The P.E.O. International Peace Scholarships—Believing that education is fundamental to World peace and understanding, the members of the P.E.O. Sisterhood contribute funds for the purpose of providing scholarships for selected women from other countries to study in the United States and Canada. The applicant must have full time graduate status working towards a degree. She must state her intention to return to her own country on completion of her educational programme. Two or more awards of varying amounts of approximately \$600.00 per session will be made each year. Request for application forms should be made before December 1st. Further information may be obtained from the Dean of Women, University of British Columbia, Vancouver 8, B.C.

Rotary Foundation Fellowships—The Board of Directors of Rotary International and the Rotary Foundation Trustees have established a number of Rotary Foundation Fellowships, each to the value of \$2500 approximately, for advanced study for a period normally of one year. Candidates are expected to pursue studies outside their own country. Preference will be given to a candidate who proposes to study in a country where the language is different from that of his own homeland and who is reasonably proficient in that language. These fellowships are open to unmarried students between the ages of twenty and twenty-eight. Applicants must be graduates or in their graduating year. They are advised to make application early in the year to the Rotary Club in their home district. It is suggested that complete information be obtained from the Rotary Club of Vancouver or any other Rotary Club.

The Woodrow Wilson National Fellowships—The purpose of these fellowships is to encourage promising students to consider careers as college teachers in the fields of the humanities and the natural and social sciences. Outstanding college seniors and graduates who have not commenced graduate studies are eligible for nomination provided they indicate a sincere interest in college teaching. The stipend is \$1500 (plus dependency allowance for wife and children). The Foundation also pays directly to the graduate school tuition and other fees for the fellow. An applicant may choose any graduate school in the United States and Canada, but this choice is subject to review by the Woodrow Wilson Fellow Foundation. Except under unusual circumstances, fellows may not remain at the university where they were undergraduates. Prospective fellows are nominated by faculty members. Students interested in these fellowships should indicate their interest to the head of the department concerned as soon as possible after registration in the Final Year. Nominations of suitable candidates must be submitted by faculty members very early in the academic session.

For Undergraduates

Cominco Undergraduate Scholarships—The Consolidated Mining and Smelting Company of Canada Limited offers annually a number of scholarships fuller details of which should be obtained from the Secretary, Scholarship Committee, The Consolidated Mining and Smelting Company of Canada Limited, Trail, B.C. Applications, on special forms available at the above address, must be postmarked not later than May 15th and forwarded to that address. These awards include: (a) Two major awards of \$1400 each payable \$350 each per year. Known as Cominco Undergraduate Scholarships, Class 1, they are open in competition at the Senior Matriculation or equivalent level (i.e. equivalent First Year University) to sons and daughters of Cominco employees. (b) Four one-year awards of \$300 each, known as Cominco Undergraduate Scholarships, Class 2, are open in competition to sons and daughters of Cominco employees. These awards are based on Senior Matriculation standing

only. (c) Two one-year awards of \$300 each, known as Cominco Undergraduate Scholarships, Class 3, open in competition to all students who are attending high schools in School Districts Nos. 1-11 inclusive, which cover the East and West Kootenay Districts of British Columbia. These awards are based on Senior Matriculation standing only.

Crown Zellerbach Canada Limited Scholarships for Teacher Training—Seven scholarships of \$2000 each, payable in yearly instalments of \$400 for five years, are offered annually by Crown Zellerbach Canada Limited to high school graduates beginning studies at the University 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; Occan Falls; Richmond School District No. 38; and the combined area of New Westminster School District No. 40, Coquitlam School District No. 43, and Surrey School District No. 36. Selection of the winners of the scholarships, which are open to students whose parents reside in these districts, will be made by the School Boards concerned, on the basis of scholastic standing, leadership, citizenship, and suitability for the teaching profession. Application to compete should be made to the high school principal. Yearly renewals to winners will be dependent upon maintenance of good academic standing.

The Elizabeth Bentley Eastern Star Scholarship— This scholarship, in the amount of \$400, is given annually by the Order of the Eastern Star to a student who is attending the University of British Columbia or Victoria College, and in whose immediate family there is a member of the Order. Names of eligible students, with complete information and photostatic copies of their marks, are forwarded each year by the various chapters to the Secretary of the Grand Chapter of British Columbia, to be received in that office not later than July 31st. The award is made to that student who attains the highest average of marks in regular subjects during the Second and Third Years of attendance at the University or College. Further information may be obtained from Mrs. Hazel Freeze, Grand Secretary, 4767 Collingwood, Vancouver 8, B.C.

The IBM-Thomas J. Watson Memorial Scholarship—Two scholarships, each ranging from \$200 to \$1000 and based on individual need and the cost of studies concerned, are offered each year in competition by International Business Machines Company Limited, Don Mills (Toronto), to children of (a) regular employees; (b) retired employees; (c) deceased employees who died while employed; (d) employees receiving total and permanent disability benefits from IBM; (e) employees on an authorized leave of absence. Each scholarship is renewable in an amount to be determined annually, for three further years subject to maintenance by the holder of a "B" average. Applicants who have completed or will complete the prescribed secondary school course necessary for University entrance prior to the commencement of the university year, are eligible to apply. Awards are tenable at any Canadian University. Selection of the winners will be made by a committee appointed by the Canadian Universities Foundation. Financial need will not be a factor in the selection. A minimum average grade of 70% in the University entrance year is a prerequisite. Winners will not be permitted to hold other awards.

The Imperial Oil Undergraduate Scholarships—Imperial Oil Limited offers annually eleven scholarships for undergraduate study, open to children and wards of employees and annuitants of Imperial Oil Limited and its Canadian subsidiaries. One of these scholarships is available to students completing Grade XII or Grade XIII in British Columbia. These scholarships entitle the holders to \$700 per annum each for a period up to four years, providing other awards of equal or greater value are not held concurrently. The university concerned also receives an unrestricted grant-in-aid annually for each scholarship winner in attendance. Further information and application forms, which must be submitted by June 1st, may be obtained from the Secretary, Imperial Oil Scholarship Committee, 111 St. Clair Avenue West, Toronto 7, Ontario.

The Independent Order of Oddfellows Bursaries—Six bursaries of \$250 each, provided by the Grand Lodge of B.C., I.O.O.F., the Grand Encampment, and the Rebekah Assembly, are available annually for students in any year of any faculty. The awards will be made by a joint committee consisting of two representatives from each of the Grand Bodies. All applicants must have direct connection with one or

more branches of the Order, through parents, grandparents, or close relatives. Special consideration will be given to applicants with financial need. Full details of the awards and application forms may be obtained from the Secretary of any Oddfellows Lodge or Rebekah Lodge, I.O.O.F. Applications should be submitted to the Oddfellows or Rebekah Lodge by May 1st so that they may be received by the Committee not later than May 15th. All applications must be sponsored by an Oddfellows Lodge, Rebekah Lodge, or Encampment.

The above Committee will award annually an additional bursary of \$200 to a student in a recognized theological college of university status. This bursary will be known as the Dr. A. M. Sanford Memorial Bursary. Applicants will follow the same procedure as for all other I.O.O.F. bursaries, except that family connections with the I.O.O.F. will not be required.

The I.O.D.E. Second War Memorial Bursaries—These bursaries were established as a memorial to Canadian men and women who gave their lives in the Second World War. They are open to sons and daughters, residents in Canada, whose fathers or mothers, having served during World War II in the Navy, Army, Airforce, 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 St., Vancouver 14, B.C. Applications must be submitted by April 1st.

The I.W.A., Local 1-80, Scholarship—I.W.A., Local 1-80, offers a scholarship in the amount of \$300, open in competition to I.W.A. members (Local 1-80), or the wife, son or daughter of a member. The scholarship will be awarded to the candidate obtaining the highest standing in the written examinations for Grade XII (University Programme) conducted in June by the Department of Education, B.C. All applicants must write a full set of examinations, details of which may be obtained from the principal of any high school offering Grade XII work, or from the Department of Education, Victoria, B.C. The scholarship will be open to those proceeding in the fall to university studies at the University of British Columbia, Vancouver, or Victoria College, 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 3rd. They must also consult the school principal before this date about the arrangements to write the examinations and apply to write the departmental scholarship examinations. The I.W.A. reserves the right to withhold the scholarship if no candidate makes sufficiently high standing, or to award it to another candidate if the winner receives another award of higher monetary value.

Leonard Foundation Scholarships—This National Foundation awards each year a number of scholarships for which students of the Victoria College are eligible. Application forms and further information may be secured from Dean F. H. Soward, a member of the General Committee of the Foundation or from the Registrar. These forms should be forwarded to the Honorary Secretary of the Foundation, c/o Toronto General Trusts Corporation, 253 Bay Street, Toronto, not later than March 31st of each year. Whenever possible these applications should be filed in February. The awards are made at the annual meeting of the General Committee on the last Friday in May.

MacMillan, Bloedel and Powell River Limited Scholarships—Seven scholarships of \$400 each, one in each of School District 65 (Duncan-Cowichan), 67 (Lady-smith-Chemainus), 68 (Nanaimo), 69 (Qualicum), 70 (Alberni), 79 (Ucluelet-Tofino), and 48 (Howe Sound) are offered by MacMillan, Bloedel and Powell River Limited. These scholarships are open to students beginning their studies at the University of British Columbia or affiliated Theological Colleges on the Campus or at Victoria College. 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, Vice-Principal, the Senior Girls' and Senior Boys' Counsellors, the Dean of Inter-Faculty Affairs of the University (con-

sultative member), and a representative of MacMillan, Bloedel and Powell River Limited. Further information may be obtained from the Principal of the School.

Northern Electric Employee Bursaries—The Northern Electric Company Limited has provided for a number of bursaries to an annual maximum value of \$500 each to assist employees of the Company and their dependents to obtain a university education. The recipients must have completed previously one year of undergraduate studies at a recognized university. Application forms obtainable from the Company should be submitted directly to the Northern Electric Bursary Award Committee, Dept. 107, P.O. Box 6123, Montreal, P.Q. before July 31st.

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 St., Vancouver 5, B.C.

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 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 St., 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 toward a degree in Agriculture. Application by letter from the Institute to the Secretary-Treasurer, Provincial Board, B.C. Woman's Institute, 545 Superior St., Victoria, B.C., must be received before July 15.

THE STUDENT AID LOAN FUND

The Student Aid Loan Fund—By an Act of the Provincial Legislature the University was authorized in 1959 to borrow money for the establishment of this Fund. Loans will be made to students with satisfactory standing who fulfil (to the satisfaction of the Loan Committee) requirements of being domiciled in British Columbia, and who require financial assistance. Loans bear interest from the date of issue, and are repayable in regular instalments commencing not later than October 1st of the year in which the approved training programme will be completed. For fuller details and application forms, apply to the Dean of Inter-Faculty Affairs, University of British Columbia, Vancouver 8, B.C.

THE MILVA REID REVOLVING LOAN FUND

The Milva Reid Revolving Loan Fund, sponsored by Chapter V, P.E.O. Sisterhood, provides the sum of \$500 for short term loans to women students in attendance at Victoria College. For further information please consult the Principal.

STUDENT ASSISTANCE

Victoria College has a small loan fund to assist students requiring financial assistance. For further information please consult the Principal.

Work in the Library and in the Cafeteria, at the rate of \$1.00 per hour, will be provided for students of good standing who require financial assistance. Application should be made to the Registrar at time of registration on a form available for this purpose.

FACULTY OF ARTS AND SCIENCE

The degrees offered in this Faculty at Victoria College are Bachelor of Arts (B.A.) and Bachelor of Science (B.Sc.).

Registration and Admission

1. Registration must be completed by September 13th, as described on pages 17 and 18.
2. After September 21st, except in very special circumstances and with the permission of Faculty, no student may change the programme for which he has registered.
3. All changes in registration must be made by the student at the Registrar's office. A student may not take courses for which he has not registered, and will be considered as having failed in all courses dropped without permission.

Summer Session and Other Credits

1. Although the degrees in this Faculty are normally granted on completion of the required units in the winter session, credits obtained in summer session may be combined with those obtained in winter session to complete the required number of units. A degree will not be granted, however, in less than four years from High School Graduation (University Programme) or three years from Senior Matriculation.
2. The maximum credit for summer session work in any one calendar year is 6 units.
3. The maximum credit for work other than that of the winter and summer sessions is 3 units in each academic year, not exceeding a total of 15 units subsequent to Senior Matriculation or First Year.
4. No credit will be granted for work done at other universities in the same academic year in which work has been attempted in this College, whether in the summer session, the winter session, or otherwise. Extra-mural work done at other universities prior to registration at this College may be accepted, if approved by Faculty, but may not exceed 3 units in respect of any one academic year or a maximum of 15 units subsequent to Senior Matriculation.
5. Students in attendance at the University of British Columbia or the College may not register for extra-mural or correspondence work to be taken concurrently.
6. Candidates for degrees are advised to attend at least one winter session, preferably that of the Final Year.

Senior Matriculation Credits

See page 16.

General Regulations

1. Students who are accepted by transfer from other institutions must complete all further courses at Victoria College. The College will normally not grant a degree for residence of less than two regular winter sessions or the equivalent.
2. Students who take more than 15 units in any year may not receive credit in a higher year for these extra units unless they already have advance credit in the year.
3. Subjects credited to one year may not be transferred later to a higher year.
4. No student may take more than 18 units and, without special permission of the Faculty, fewer than 15 units, in each winter session.
5. Students may not receive University credit for courses passed for High School Graduation whether taken among the required credits or as extra subjects.
6. Students may not continue with work in a higher year, unless they take concurrently all courses required to clear conditions or deficiencies in the lower years. The total of all work taken may not exceed 18 units. They may continue only in subjects for which they have successfully completed the prerequisites.

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

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

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. In April they are held in all courses except those final at Christmas. These examinations are obligatory for all students.

2. Applications for special consideration on account of illness or domestic affliction must be submitted in writing to the Registrar not later than two days after the close of the examination period. In cases of illness a medical certificate must be presented to the Registrar's office.

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

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

Standing and Credit

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

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

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

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

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

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

Supplementals

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

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

2. If a supplemental granted in a course is passed with a grade of at least 50%, credit will be given for the course. In the computation of the overall average in the work of a session or for a degree, the grade in a supplemental, if passed, will be considered as 50%. Similarly the overall average will not be changed if a subject already passed is written for higher standing.

3. In all but the Final Year a candidate who has been granted a supplemental may write it only once. If he fails, he must repeat the course or take a permissible substitute. In the Final Year he may write it twice.

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

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

6. If a student, because of exceptional circumstances, is permitted to postpone a supplemental beyond the first regular supplemental examination period, he will be responsible for the content of the course as currently offered. If the course is not offered or has been discontinued, the supplemental privilege may be cancelled. Attention is also drawn to section 3 under "Standing and Credit."

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

Re-Readings

See page 20.

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 Section 3 under "Standing and Credit."

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

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

COURSES LEADING TO DEGREE OF B.A.

A student may proceed to the B.A. degree either in a General Course or in an Honours Course. The requirements for a General Course B.A. enable a student to obtain a broad general education in several fields without specialization in any one of them. The course of study for an Honours degree, on the other hand, requires that a student study one or two subjects intensively during the last two or three years of his course. In some cases students may postpone the decision as to whether to proceed in a General Course or in an Honours Course until the end of the Second Year, but as requirements usually involve certain prerequisite courses which must be taken in the first two years, students should consult pages 50-56.

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

Course credits are described in terms of units. The unit values are given in the various course descriptions, pages 58-80.

Students planning to article for Chartered Accountancy after completion of the B.A. degree are advised by the Institute of Chartered Accountants of British Columbia to include Commerce 151, Economics 200 and Commerce 371 in their programmes.

First and Second Years

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

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

Reference Notes

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

2. All courses for First Year credit must be selected from the following list. For prerequisites and other details, see pages 58-80.

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

3. All courses for Second Year credit must be selected from the list in Note 2 or from the following additional subjects. For prerequisites and other details consult pages 58-80.

Anthropology 200	*History 200, 201, 212, 304
Botany 205	Latin 210 or 220
Chemistry 200, 203, 205, 210	*Mathematics 201, 202, 205, 220, 221, 310
*Classical Studies 315, 331	Philosophy 202, 210
*Commerce 151	Physics 211, 222
*Economics 200, 321	Political Science 200, 201
*English 200, 202, 245	Psychology 200, 206
French 210 or 220, 223	Russian 200
Geography 201	Sociology 200
Geology 200	Spanish 201
German 200	Theatre 200
Greek 301	Zoology 202

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

(i) they must take a language course of the 100 level in the First Year, and a course in the same language of the 200 level in the Second Year;

* Commerce 151 is open only to those students who are permitted to register in the Second Year. English 202, English 245, History 304, and Mathematics 201, 220, 221, 310 are open only by special permission. For Classical Studies a knowledge of Greek and Latin is not required. Economics 321 requires the permission of the instructor.

(ii) they must take a language course numbered 90 in the First Year, a course in the same language of the 100 level in the Second Year, and, in the same language, a course of the 200 level in the Third or Fourth Year.

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

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

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

7. Mathematics 120 is required for admission to Architecture, Engineering, Forestry, for all programmes leading to a B.Sc. degree, and for majors or Honours in Mathematics and most of the Sciences. It is prerequisite to Mathematics 202 and 220. Mathematics 110 or 120 is required for entrance to Commerce, Medicine, Nursing and Pharmacy. Mathematics 110 is recommended for students in the humanities and social sciences. Departments should be consulted. The pre-requisite for Mathematics 120 is Mathematics 91 of the British Columbia High School Programme, or the equivalent.

8. The special Honours elective, which must be chosen from the subjects listed in Notes 2 and 3, need be taken only by students who are proceeding to these Honours Courses which require 18 units in the Second Year. The individual departments should be consulted. See also pages 50-56.

THIRD AND FOURTH YEARS

The requirements for a B.A. in a General Course and in an Honours Course, single or combined or double, are described in the following sections.

Except in an approved Honours Course, credit will not be given toward the B.A. degree for courses in Commerce (except 151 and 371), Education, Home Economics (except 210), Physical Education, and Social Work (except 499). Similarly credit for courses in other faculties will not be granted unless the courses are listed among those offered in the Faculty of Arts and Science or prior special permission has been obtained from the Committee on Admissions, Standing, and Courses.

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

General Course Curriculum

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

1. Courses must be selected so as to include two majors in different subjects. In general a major in a subject consists of a 9-unit combination of courses, numbered 300 or higher, in that subject. Each major has a prerequisite course or courses, numbered less than 300, which should be taken in the first two years. Details of majors and prerequisites are given under each subject in which a major is offered. (See pages 50-56).

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

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

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

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

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

HONOURS CURRICULUM

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

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

The B.A. in any Honours Course requires the completion of the First and Second Years in conformity with the regulations on pages 44-48. For Single or Combined Honours 51 units are required in the combined Second, Third, and Fourth Years; for Double Honours 66 units are required in the combined Second, Third, Fourth, and Fifth Years. For single Honours at least 18 of the requisite units in the combined Third and Fourth Years must be taken in the subject concerned and at least 6 units in another subject or subjects.

Prerequisites and requirements for Single and Combined Honours Courses are listed under those subjects in which such courses are offered. Combined Honours, however, may be taken only if the combination proposed is approved by the departments concerned.

Five-Year Double Honours Courses are open only to students well qualified to do intensive study in two fields. As requirements and prerequisites are not listed in the case of most subjects, the heads of departments concerned should be consulted as early as possible.

The following regulations govern Honours Courses:

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

2. A candidate for Honours may be required to present a graduating essay, which will count from 3 to 6 units. A candidate for Honours in two subjects will not be required to present more than one graduating essay. The latest date for receiving graduating essays in the second term is the last day of lectures; the corresponding date for the Autumn Congregation is October 1st.

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

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

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

REQUIREMENTS FOR MAJORS AND HONOURS

Anthropology

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

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

(c) Combined Honours and Five-Year Double Honours—See University Calendar.

Biochemistry

(a) Major—Third and Fourth Years: 9 units of biochemical or related courses numbered 300 or above, selected in consultation with the Department.

(b) Single Honours—First and Second Years: Chemistry 102 (or 101), 200, 203, Mathematics 120, 202 (or 220), Physics 101, Zoology 105. Third and Fourth Years: see University Calendar.

(c) Combined Honours—First and Second Years: as for Single Honours. Third and Fourth Years: see University Calendar.

Biology

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

(b) Single Honours—Students may take Honours in Biology through specialization in one of cytology, genetics, or animal physiology. Both Botany 105 and Zoology 105 are required for cytology and genetics, but only Zoology 105 in the case of animal physiology. It is recommended that 18 units be taken in the Second Year; it is required that 18 units be taken in each of the Third and Fourth Years. First Year: Botany 105 or Zoology 105, Chemistry 101 or 102, Mathematics 120; Second Year: Botany 105 or Zoology 105, Physics 101, Chemistry 200 or 205, Mathematics 202. Third and Fourth Years see University Calendar.

(c) Combined Honours—First and Second Years: as Single Honours.

Botany

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

(b) Single Honours—Students may take Honours in any one of ecology, forest pathology, mycology, phycology, plant physiology or taxonomy. It is recommended that 18 units be taken in the Second Year; it is required that 18 units be taken in each of the Third and Fourth Years. First Year: Botany 105, Chemistry 101 or 102, Mathematics 120; Second Year: Botany 205, Zoology 105, Physics 101, Chemistry 200 or 205 (replaced by Geology 200 for taxonomy option). For Third and Fourth Years see University Calendar.

(c) Combined Honours—First and Second Years: as for Single Honours.

Chemistry

It is assumed that all students entering the Department have passed Chemistry 91 or its equivalent; those who have not must consult the department before registering for Chemistry 101 or 102. Students intending to major in Chemistry must secure written consent from the Head of the Department.

(a) Major—First Year: Chemistry 101 or 102, Mathematics 120, and Physics 101. Second Year: Chemistry 205 (biological, medical, agricultural and related sciences), or Chemistry 200 (physical sciences), Mathematics 202 and Physics 211. Third and Fourth Years: Chemistry 300 (or 203 and 303), 304 and 310. Chemistry 311 is strongly recommended.

(b) Single Honours—Students electing Honours in Chemistry must obtain, at the end of their First Year, written approval of their course programme from the Head of the Department. First Year: Chemistry 102 (or 101), Mathematics 120, Physics 101. Second Year: Chemistry 200, 203; Mathematics 220, (or with permission Math.

202), Physics 222, and 6 additional units. Third Year: Chemistry 303, 304, 310, 311, 312, Mathematics 300 and additional units to complete Calendar requirements (to be chosen in consultation with the Head of the Department). Fourth Year: It is expected that the complete Honours programme will be offered in 1964-65. (This will probably be: Chemistry 403, 407, 412, 417, 449 and three additional units chosen in consultation with the Department.) A reading knowledge of German, Russian or French is highly desirable.

Note: Except under special circumstances a first year average of 65% or over, with 70% or more in Chemistry 102 (or 101) will be required for candidates for the Honours programme. A student who fails to maintain Honours standing in any year must withdraw from Honours. Such a student may apply for admission to the Pass Course (i.e., a Major or enriched Major in Chemistry).

(c) Honours in Chemistry and Mathematics, Chemistry and Physics, or Combined Honours—First and Second Years: as for Single Honours. Third and Fourth Years: 15 additional units chosen in consultation with the Heads of the Departments concerned.

Classical Studies

Major: Classical Studies 331 and 9 units of Classical Studies or 6 units of Classical Studies plus 3 units (numbered above 300) of Greek or Latin.

A knowledge of the Greek and Latin languages is not required for courses in Classical Studies, which are designed to present studies in the life, literature and thought of the Greek and Roman world. Classical Studies 315, 331 may be taken by Second Year students and three units of credit in History will be given for Course 331.

Economics

(a) Majors—Admission to Third Year: Economics 200 and one of Economics 100, 321. Mathematics 205 and 202 also recommended. Third and Fourth Years: Economics 300 and 6 additional units in courses numbered 303 and above.

Honours—A First or Second Class standing in Economics 302 and a First or Second Class average in all Economics courses taken in the Third Year are prerequisites for admission to the Fourth Year of a Single, Combined or Five-Year Double Honours programme.

(b) Single Honours—Admission to the Third Year: Economics 100 or 321; a First or Second Class in Economics 202 (or Economics 200 with approval of the Department); Mathematics 120; a reading knowledge of French, German or Russian. Third and Fourth Years: A minimum of 21 units to include Economics 302, 441, 449; and one of Economics 308, 400 and 415. If Economics 304 and a course in economic history have not already been taken, Economics 304 and 320 or 321 must be taken in addition to the 21 units.

(c) Combined Honours—Admission to Third Year, a First or Second Class in Economics 202 (or Economics 200 with approval of the Department); Economics 100 or 304 or 321, and a reading knowledge of French, German or Russian. Third and Fourth Years: (1) if the graduating essay is written in Economics, a minimum of 15 units to include Economics 302, 441, 449; and one of Economics 308, 400 and 415. (2) If the graduating essay is not written in Economics, a minimum of 12 units to include Economics 302 and one of Economics 308, 400 and 415.

(d) Five-Year Double Honours—The same as for Single Honours in Economics, except that if the graduating essay is written in the other subject in which the student is taking Honours, another Economics course shall be substituted for Economics 449.

English

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

(b) Single Honours—The Honours Programme allows students of proven ability to study English Language and Literature more comprehensively than is possible in the General Programme. Courses range more widely over the whole field of English studies, and the approach within the special Honours course is more intensive. Since such classes are normally small enough to meet as tutorial or seminar groups, Honours

work is controlled and closely supervised, but it also makes greater demands on a student's initiative and judgment than work in a General Course. Students who take a special interest in Language or Literature are strongly advised to enroll in the Honours rather than in the General Programme.

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

French

(a) Major—First Year: French 120; Second Year: French 220; Third and Fourth Years: 9 units of French courses numbered 300 or higher, including 302.

(b) Single Honours—First Year: French 120 and one year of Latin (if Latin 92 has not been passed in high school); Second Year: French 220 and 223. For Third and Fourth Years see University Calendar.

(c) Combined Honours—As for Single Honours.

Geography

(a) Major—First or Second Year: Geography 101 and 201 or 207. Third and Fourth Years: (i) Two of 301, 302, 304, 305, 307, and (ii) One of 408, 409.

(b) Single Honours—First two years: Geography 101, Mathematics 120 and two years of a modern language; Geography 201. For Third and Fourth Years see University Calendar.

(c) Combined Honours—See University Calendar.

Note: Geology 200 may be substituted for Geography 101 but Geography 301 and 302 must then be included in the major.

Geology

Students who intend to make Geology their profession are advised to take Geological Engineering or an Honours Course leading to the B.Sc. Degree.

(a) Major—In the first two years, English 100; one course of foreign language (German or Russian preferably); Mathematics 120, and 202, Chemistry 101 or 102; Physics 101; Zoology 105 or Botany 105; Geology 200; one of Chemistry 200, 205, or Physics 211; a non-science elective. For Third and Fourth Years see University Calendar.

(b) Honours—In the first two years, as above, but an additional 3 units are advisable in the Second Year.

German

(a) Major—First Year: German 110 or 120; Second Year: German 200 and/or German 223; Third and Fourth Years: a total of 9 units in German courses numbered 300 or above.

(b) Single Honours—First Year: German 110 or 120 (with satisfactory standing); Second Year: German 200 and 223. For Third and Fourth Years see University Calendar.

(c) Combined Honours—See University Calendar.

Greek

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

(b) Single Honours in Greek—First and Second Years; two courses in Greek. For Third and Fourth Years see University Calendar.

History

(a) A major consists of 9 units (three courses) in courses accepted for credit in History, of which at least 6 must be selected from regular departmental offerings. These courses should be selected in consultation with one of the members of the Department from two of the following areas of interest: American, British, Canadian, Commonwealth, European. Prerequisites for these areas of interest are as follows—American: History 212; British and Commonwealth: History 201; Canadian: History 102; European: History 101 or 200.

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

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

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

(c) Combined Honours—See University Calendar.

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, 409; Philosophy 100, Political Science 200, 300; Sociology 200. (2) A reading knowledge of French, German, Russian or Spanish is useful. (3) All courses numbered above 300 are open to both Third and Fourth Year students.

International Studies

(a) Major—First and Second Years: International Studies 200. Economics 200 and History 201 are recommended courses, and a reading knowledge of French, German, Spanish or Russian is advised; Third and Fourth Years: total of 9 units in courses numbered 300 or above, accepted for credit in International Studies, of which 6 must be from regular Departmental offerings.

(b) Single Honours—Prerequisites for admission to the Third Year include a First or high Second Class standing in International Studies 200 and a reading knowledge of French, German, Russian or Spanish. Second Year: English 200, French 210 or 220 (or its equivalent), International Studies 200 and two electives, for which History 101 (if not already taken) and Economics 200 are recommended. For Third and Fourth Years see University Calendar.

(c) Combined Honours—as for Single Honours. See University Calendar for Third and Fourth Years.

Latin

(a) Major—First Year: Latin 110 or 120; Second Year: Latin 210 or 220; Third and Fourth Years: total of 9 units in Latin courses numbered above 300, or 6 units in Latin courses numbered above 300 plus 3 units in Classical Studies (316, or 331 or 333).

(b) Single Honours in Classics—By the end of the Second Year the student should have completed Latin 220 and two courses in Greek. For Third and Fourth Years see University Calendar.

(c) Single Honours in Latin—By the end of Second Year the student should have completed Latin 220. For Third and Fourth Years see University Calendar.

(d) Combined Honours (Classics)—First and Second Years: the student should elect Latin and Greek in each year. For Third and Fourth Years see University Calendar.

(e) Combined Honours (Latin)—By the end of Second Year the student should have completed Latin 220. For Third and Fourth Years see University Calendar.

Mathematics

(a) Major—First and Second Years: Mathematics 120, 202, or 220 with the consent of the Department. Students who are permitted to take Mathematics 220 are advised to take Mathematics 221 concurrently. At least second class standing in Mathematics 120 is prerequisite to Mathematics 220 and 221. Third and Fourth Years: total of 9 units chosen from Mathematics 300, 301, 302, 305, 306, 308-322, 310, 402-410, 320-412, 441. Students who do not take Mathematics 221 are advised to take Mathematics 310 in their Third Year.

(b) Single Honours—Students may take Honours in (i) Mathematics, (ii) Mathematics (Actuarial Option), (iii) Applied Mathematics. A reading knowledge of French, German or Russian is highly desirable and students who have taken French in High School should take German or Russian. First Year: Mathematics 120, Physics 101 (students interested in Applied Mathematics should take an additional course in a related subject chosen in consultation with the department). Second Year: Mathematics 220, 221, which must be taken concurrently, Physics 222 (students interested in Actuarial Science should take Commerce 151 and Economics 200 in the Second or Third Year). For Third and Fourth Years see University Calendar.

(c) Combined Honours—See University Calendar.

Philosophy

(a) Major—First Year: Philosophy 100; Second Year: Philosophy 202 or 212; Third and Fourth Years: Philosophy 210 or 315, and six additional units in Philosophy courses numbered 300 or above, chosen in consultation with the Department.

(b) Single Honours—First and Second Years: Mathematics 120, Philosophy 100, and 3 units of laboratory science. Third and Fourth Years: Philosophy 202 or 212, and 15 additional units in Philosophy selected in consultation with the Department.

(c) Combined Honours—First and Second Years: as for Single Honours. For Third and Fourth Years see University Calendar.

(d) Five-Year Double Honours—Same as for Single Honours.

Physics

(a) Major—First Year: Mathematics 120, and Physics 101; Second Year: Mathematics 202, Physics 211; Third and Fourth Years: Physics 312, 322, and 413.

(b) Single Honours—First Year: Chemistry 101 or 102, Mathematics 120, Physics 101; Second Year: Mathematics 220, 221, Physics 211, 222, and 6 additional units chosen to meet Calendar regulations among which Chemistry 200 is recommended. Third Year: Physics 321, 322, 324, 413; Mathematics 300, 308/322. Fourth Year: Physics 421, 433, 423, 429, Physics seminar; Mathematics 402/410, 320/412.

(c) Honours in Physics and Mathematics—First and Second Years: as for Single Honours.

(d) Combined Honours (Physics with a subject other than Mathematics or Geology)—First Year: Mathematics 120, Physics 101; Second Year: Mathematics 202 or 220, Physics 211, 222. For Third and Fourth Years see University Calendar.

(e) Honours in Physics and Geology—First Year: as for Single Honours; Second Year: Chemistry 200 or 205, Geology 200, Mathematics 202 or 220, Physics 211, 222 and 3 additional units to meet Calendar regulations. For Third and Fourth Years see University Calendar.

Physiology

(a) Single Honours—First and Second Years: Chemistry 101 or 102, and 200, Mathematics 120, Physics 101, and Zoology 105; Third and Fourth Years: see University Calendar.

(b) Combined Honours—First and Second Years: as for Single Honours.

Political Science

(a) Major—Prerequisite: Political Science 200 or 201; Third and Fourth Years: 9 units in Political Science numbered 300 or above (including Political Science 300).

(b) Single Honours—Prerequisites for admission to Third Year. A reading knowledge of French, German or Russian; First or Second Class standing in Political Science 200 or 201. Students are advised to take both of these courses and Economics 200 in their Second Year.

Third Year course: 18 units including Political Science 300 and 301; other courses chosen in consultation with the Department. A student's programme must include Political Science 200, or Political Science 201 and 401. If Economics 200 has not been taken, it must be included in these 18 units.

Prerequisite for admission to the Fourth Year is First or Second Class standing in political science courses and First or Second Class standing in the Third Year programme generally.

Fourth Year course: 18 units, including Political Science 441, Political Science 449, two further courses in Political Science, and two electives.

(c) Combined Honours—the same prerequisites as for Single Honours.

(d) Five-Year Double Honours—See University Calendar.

Psychology

For students planning a major at Victoria College one of the following programmes is recommended.

(a) Major—(1) General Major, not intended to lead to further work in Psychology: First and Second Years: Psychology 100, 200 or 206; Third and Fourth Years: any three Psychology courses at the Third or Fourth Year level. Mathematics is not a necessary prerequisite to the General Major programme. (2) Professional Major: First and Second Years: Mathematics 120; Physics 101 or Zoology 105; Psychology 100 and 200; Third and Fourth Years: Psychology 305 or 405, and 410, and at least six more units in Psychology at the Third or Fourth Year level. Students taking a Professional Major are encouraged to elect some of the following courses: Biology 332-333, Mathematics 202 or 220, Philosophy 100, Anthropology 200 or Sociology 200, Zoology 303, and other courses in the Humanities. Students who wish to major in Psychology must have their programmes approved by the Department before enrolling in Third and Fourth Year courses.

(b) Single Honours: Professional Major (15 units) plus Psychology 449. Courses to be selected in consultation with the departmental adviser. First class students wishing to enrol on the Honours programme should apply before the commencement of their Third Year, or early in the Fall term of the Third Year.

Russian

(a) Major—First Year: Russian 100; Second Year: Russian 200; Third and Fourth Years; a total of 9 units in Russian courses numbered 300 or above including Russian 300 and Russian 400.

Sociology

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

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

(c) Combined Honours (Sociology combined with some other subject)—Prerequisites for admission to Third Year: as for Single Honours.

(d) Five-Year Double Honours (Sociology and some other subject)—See University Calendar.

Spanish

(a) Major—First and Second Years: Spanish 120, and 201; Third and Fourth Years: 9 units in Spanish courses numbered 300 or higher; or First and Second Years: Spanish 90 and Spanish 120; Third and Fourth Years: Spanish 201 and 9 units in Spanish courses numbered 300 or higher. (A course numbered 300 or higher may be taken concurrently with 201, with the consent of the Department).

(b) Single Honours—First Year: Spanish 120 and one year of Latin (if Latin 92 has not been passed in high school). Second Year: Spanish 201; Third and

Fourth Years: 18 units in Spanish courses numbered 300 and above, including 300 and 449.

(c) Combined Honours—First and Second Years: as for Single Honours. See University Calendar.

Zoology

(a) Major—First Year: Zoology 105; Second Year: Zoology 202; Third and Fourth Years: 6 units from the general courses in Zoology, and 3 units from the special courses in Zoology. Biology 332, 333 may be included in the above.

(b) Single Honours—First Year: Zoology 105, English 100, Mathematics 120, Chemistry 101 or 102, Language. Second Year: Zoology 202, Physics 101, Chemistry 205 or 210, Botany 105, Language (advised), non-science elective.

Third Year: Zoology 301, Zoology 302, Zoology 303, Mathematics 202 (advised), and 6 units selected from Biology, Botany, Microbiology, Geology, Chemistry, or a non-science field as advised. Fourth Year: Biology 332, Zoology 400 or Zoology 401, and 6 units of Zoology courses numbered 300 or above, Zoology 449.

COURSES LEADING TO THE DEGREE OF B.Sc.

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

FIRST AND SECOND YEARS

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

- (a) In the First Year a minimum of 15 units is required. In the Second Year of a General Course and of all Honours Courses, at least 15 units are required; in certain Honours Courses, however, 18 units must be taken.
- (b) English 100, Mathematics 120, two science courses (see Note 2 below), and one language course (see Note 1 below) must be taken in the First Year.
- (c) Three science courses (see Note 2 below) and one non-science elective (see Note 3 below) must be taken in the Second Year.
- (d) General electives must be selected in accordance with Notes 1, 2, 3, and 8 on pages 47-48.

Reference Notes:

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

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

3. The non-science elective required in (c) above must be a course without laboratory, not already taken, selected from English, Languages, Anthropology, Classical Studies, Economics, Fine Arts, Geography, History, Philosophy, Political Science, Psychology, and Sociology, and chosen from the courses in notes 2, 3, page 47.

THIRD AND FOURTH YEARS

The requirements for the B.Sc. degree in the Third and Fourth Years are the same as those stated on pages 48 and 49 for the B.A. degree. The following special regulations, however, should be noted:

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

Honours Courses. See page 49 and department requirements.

COURSES IN ARTS AND SCIENCE

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

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

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

ANTHROPOLOGY

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

200. (3) **Introduction to Anthropology.**—A comparative study of cultural institutions in the primitive world; of family and other social structures; of economics, government, language, art, religion; of the origins of man and culture, the races of mankind and the nature of race. (3-0; 3-0)

430. (3) **Social Change.**—General theory of cultural evolution and social change. The impact of Western cultures upon the native peoples of Africa, Asia, the Pacific and the Americas. (3-0; 3-0)

ASTRONOMY

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

Text-book: Baker, *Astronomy* (7th ed.). (3-2; 3-2)

300. (3) **Fundamental Astronomy and Elementary Astrophysics.**—Spherical trigonometry and coordinate systems; the effects of refraction, annual parallax, aberration, precession and nutation on the apparent position of a star; planetary motions and orbits; other problems of celestial mechanics. Observed characteristics of stars; physical interpretation of stellar spectra; stellar structure; stellar evolution. Prerequisites: Astronomy 120, Mathematics 202 or 220 and Physics 211. The Mathematics and Physics courses may be taken concurrently.

Text-book: Smart, *Spherical Astronomy*.

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

BACTERIOLOGY AND IMMUNOLOGY

100. (3) **Introductory Bacteriology.**—History of bacteriology; bacteria in nature; classification of bacterial forms; methods of culture and isolation; relation of bacteria to agriculture, industry, veterinary science, public health and sanitation.

Prerequisite: Chemistry 101 or 102, which may be taken concurrently. This course is prerequisite to all other courses in the Department. (2-3; 2-3)

Text-books: To be announced.

BIOLOGY

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

105. (3) **Fundamentals of Biology.**—The principles of biology with emphasis upon its relation to man. Characteristics of living things; life processes; plants and animals; heredity and evolution; environmental relationships. Credit will not be given both for this course and Biology 100 (Senior Matriculation).

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

320. (3) **General Ecology.**—Methods and principles of ecology; plant and animal communities: bioecology. Laboratory and field work. Prerequisites: Botany 105, Zoology 105.

Text-book: Odum, **Fundamentals of Ecology**, second edition. (2-3; 2-3)

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

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

333. (1) **Laboratory in Introductory Genetics.**—Designed for students who wish laboratory work in the principles, methods and applications of genetics. Planned to supplement Biology 332 which must be taken either concurrently or previously. Prerequisites: Botany 105 or Zoology 105.

Text-books: Demerec, **Drosophila Guide**. Additional text-book to be announced. (0-2; 0-2)

BOTANY

105. (3) **Introduction to Botany.**—General perspective of the plant kingdom, physiological anatomy, ecological relations, and developmental trends.

Text-book: Hill, Overholts, Pop, Grove, **Botany, A Text-Book for Colleges**, 1960. (3-3; 3-3)

205. (3) **Morphology of Plants.**—A survey of the plant kingdom with emphasis on comparative and evolutionary features. Prerequisite: Botany 105.

Text-book: Cronquist, **Introductory Botany**, 1961. (2-3; 2-3)

315. (3) **Introductory Mycology.**—Morphology and taxonomy of fungi. Prerequisite: Botany 105.

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

330. (2) **Introductory Plant Physiology.**—Introduction to physiological processes of plants. Photosynthesis, transpiration, absorption, enzymes, respiration, plant hormones, and growth. Prerequisite: Botany 105.

Text-book: To be announced. (2-4; 0-0)

342. (3) **Plant Anatomy and Microtechnique.**—Study of the development and organization of plant tissues and organs. Techniques in the preparation of slides for anatomical study; microphotography. Prerequisite: Botany 105.

Text-book: To be announced. (2-3; 2-3)

404. (3) **Taxonomy of Vascular Plants I.**—Prerequisite: Botany 205.

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

411. (3) **Phycology.**—Introduction to the systematics of the algae; first term emphasis on freshwater forms; second term emphasis on marine groups. Prerequisite: Botany 205.

Text-book: To be announced.

(1-4; 1-4)

448. (1-3) **Directed Studies.**—In special cases and with the approval of the Department a student in attendance may carry on directed studies to supplement another course in the Department.

CHEMISTRY

It is assumed that all students entering the Department have passed Chemistry 91 or its equivalent; those who have not must consult the Department before registering for Chemistry 101 or 102. All students who intend to major in Chemistry or to enrol in the Honours programme must secure written consent from the Head of the Department before registration each year.

101. (3) **General Chemistry.**—Fundamental theories, periodic table, descriptive inorganic chemistry, chemical calculations, modern valency concepts, elementary nuclear chemistry. Mathematics 120 must precede or be taken concurrently.

Text-book: To be announced.

(3-3; 3-3)

102. (3) **General Chemistry.**—Similar to Chemistry 101 but in somewhat more detail. This course is intended only for prospective Honours science and engineering students. Prerequisites: Mathematics 120 and Physics 101 which must precede or be taken concurrently.

Text-book: Sienko and Plane, *Chemistry*, Second Edition.

(3-3; 3-3)

200. (3) **Analytical, Inorganic and Physical Chemistry.**—The fundamental principles of analytical, inorganic and physical chemistry. The laboratory course largely consists of experiments designed to illustrate the principles of modern chemistry. Prerequisites: Minimum of 65% in Chemistry 101 or 102 and Mathematics 120. This course is only for those students intending to take an Honours degree or to major in the physical sciences. The permission of the Head of the Department is required before enrolling.

Text-books: E. J. King, *Qualitative Analysis and Electrolytic Solutions*; Fischer, *Quantitative Chemical Analysis*, Second Ed.

(3-4; 3-4)

203. (3) **Organic Chemistry.**—Fundamental principles of the chemistry of aliphatic, aromatic, alicyclic and heterocyclic organic compounds. This course is only for prospective Honours (or Major) students in physical sciences. Prerequisites: Minimum of 65% in Chemistry 102 (or 101). Chemistry 200 must be taken concurrently. The permission of the Head of the Department is required before enrolling.

Text-book: Cram and Hammond, *Organic Chemistry*.

(3-3; 3-3)

205. (3) **Physical-Inorganic and Analytical Chemistry.**—Systematic inorganic chemistry, properties of matter from a molecular standpoint, equilibria in solution, introduction to physical chemistry. This course is for students taking Honours (or Majors) in biological, medical, agricultural and related sciences. Prerequisites: Chemistry 101 or 102, and Mathematics 120. Credit will not be given for both Chemistry 200 and 205.

Text-books: E. J. King, *Qualitative Analysis and Electrolytic Solutions*; Fischer, *Quantitative Chemical Analysis*, Second Ed.

(3-4; 3-4)

210. (3) **Introduction to Organic Chemistry.**—A terminal course dealing with fundamental principles of organic chemistry as well as applications and uses of organic substances. Prerequisites: Chemistry 101 or 102, and Mathematics 120. Credit will not be given for both Chemistry 210 and 300 (or for 203, 303, and 300). This course is intended for students entering Dentistry, Nursing, Home Economics. It does not carry credit as a science course for the B.Sc. Degree.

Text-books: To be announced.

(2-3; 2-3)

Primarily for Third and Fourth Year students.

300. (3) **Organic Chemistry.**—Fundamental principles as illustrated by the main classes of organic compounds in the aliphatic and aromatic series. Prerequisite: Chemistry 200 or 205.

Text-book: Laboratory Manual: MacKenzie, *Experimental Organic Chemistry.* (3-3; 3-3)

303. (2) **Theoretical Organic Chemistry.**—Modern theories of organic chemistry. Organic ions and radicals as stable entities and as reactive intermediates. Stereochemical, isotopic, and physical methods of elucidating organic reaction mechanisms. Prerequisites: Chemistry 203 and 304 (the latter may be taken concurrently).

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

304. (3) **Physical Chemistry.**—Kinetic theory of gases; thermodynamics; thermochemistry; atomic spectra; elementary quantum theory; chemical kinetics; solutions; phase equilibria; electrochemistry. Prerequisites: Chemistry 200 or 205 (or Physics 211) and Mathematics 202 or 220. Corequisite: Mathematics 300. (3-3; 3-3)

References: Barrow, *Physical Chemistry.* Glasstone and Lewis, *Elements of Physical Chemistry.* Maron and Prutton, *Principles of Physical Chemistry.*

310. (3) **Inorganic Chemistry.**—A two-part course. (1) Essentially qualitative discussions of some of the more important aspects of theoretical inorganic chemistry: electronegativity, the solid state, theories of the metallic, ionic and covalent bond, molecular stereochemistry, coordination compounds. (2) Descriptive chemistry of the elements in the context of the periodic table and the theoretical considerations developed in Part (1). The practical work consists of the preparation and characterization of representative inorganic compounds. Prerequisites: Chemistry 200 or a mark of 65% in Chemistry 205, Chemistry 304 which may be taken concurrently.

Text-books and reference books: To be announced. (3-3; 3-3)

311. (2) **Instrumental Analysis.**—An introduction to modern methods of chemical analysis, including gas chromatography, electrochemical methods, infra-red and ultra-violet spectrophotometry, mass spectrometry, and X-ray methods. Prerequisite: Chemistry 200 or 205. Physics 211 concurrently is recommended. (1-4; 1-4)

References: To be announced.

312. (2) **Structural Chemistry.**—Elementary crystal chemistry. An introduction to molecular structural determinations by the methods of X-ray and neutron diffraction, electron diffraction, dipole moments, ultra-violet and infra-red spectroscopy, and nuclear magnetic resonance spectroscopy. Prerequisite: Chemistry 200 or 205. (2-0; 2-0)

403. (3) **Modern Organic Chemistry.**—Chemistry of alkenes, aromatic compounds and carbonyl compounds; natural products; applications of spectroscopy and other physical methods to organic chemistry. For Honours students in Chemistry or in Chemistry combined with another subject. Prerequisites: At least Second Class standing in each of Chemistry 200, 203, and 303. (Not offered 1963-64).

Text-books: To be announced. (3-4; 3-4)

407. (3) **Advanced Physical Chemistry.**—Chemical thermodynamics; electrochemistry; elementary statistical mechanics, atomic and molecular structure; chemical kinetics; catalysis; surface phenomena; colloids; photo-chemistry. Prerequisites: Chemistry 304 and Mathematics 300. (Not offered 1963-64).

Text-books: To be announced. (3-4; 3-4)

409. (1½) **Advanced Organic Chemistry I.**—The lectures cover the chemistry of organic qualitative analysis, the literature of organic chemistry, infra-red and ultra violet spectra and the structure of molecules, and selected reactions used in syntheses. The laboratory work consists of the identification of a number of organic compounds. Prerequisites: Chemistry 300 or Chemistry 203 and 303.

Text-book: Shriner, Fusson and Curtin, *The Systematic Identification of Organic Compounds*, Fourth Edition; other texts and references to be announced. (2-4; 0-0)

410. (1½) **Advanced Organic Chemistry II.**—Selected topics with reference to the study of condensation reactions, alicyclic, heterocyclic and polynuclear aroma-

tic compounds, and reaction mechanisms. The practical work will illustrate the lecture material and involve the use of special equipment and advanced techniques
Prerequisite: Chemistry 409.

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

417. (1) **Nuclear and Radiochemistry.**—Nuclear structure and disintegration kinetics of radioactive decay, natural radioactivity, nuclear reactions, radiation selection and measurement, nuclear counting, artificially produced elements, tracers in chemical applications.

Text-book: To be announced. (1-0; 1-0)

CLASSICAL STUDIES

(Given by the Department of Classics)

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

315. (3) **Greek Epic and Drama.**—Study, in translation, of the *Iliad*, the *Odyssey* and selected plays of Aeschylus, Sophocles, and Euripides. Collateral reading.

Text-books: Homer, *Iliad*, trans. R. Lattimore; Homer, *Odyssey*, trans. E. V. Rieu; Hesiod, *Works and Days*, *Theogony*, trans. R. Lattimore; *Complete Greek Tragedies*, ed. Grene and Lattimore, Vols. I, III, V. Aristophanes, *The Frogs*, trans. Dudley Fitts. (3-0; 3-0)

331. (3) **Ancient History.**—The rise of the Greek city-states; special emphasis on the political, economic, and cultural achievements of the fifth and fourth centuries B.C.; the growth of Rome and the development of her political institutions during the Republic; the social and economic history of the Empire; the transition from the classical to the mediaeval world.

Text-books: Rostovtzeff, *Rome*; Hammond, N. G. L., *History of Greece to 322 B.C.* (3-0; 3-0)

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-book: Finney and Miller, *Principles of Accounting, Introductory* (5th Ed.). (3-0; 3-0)

ECONOMICS

Economics 200 is a prerequisite to all Third and Fourth Year courses except Economics 304, 405 and 406.

100. (3) **Economic History of Europe.**—Influence of geographic factors, discoveries and inventions, religion, business and labour organizations, and government on the economic development of civilizations from Ancient Greece and Rome to Western Europe in 1939.

Text-books: Heaton, *Economic History of Europe*, Revised Ed.; Reference texts to be announced. (3-0; 3-0)

200. (3) **Principles of Economics.**—The institutions and processes involved in the production and distribution of wealth; basic determinants of prices and costs, the determinants of income and employment; international trade. Prerequisites: First Year standing.

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

300. (3) **Intermediate Economic Analysis.**—Theory of consumer demand; production theory; equilibrium of the firm; study of market structures; monopoly, monopolistic competition and oligopoly. The social accounts; income and employment theory; economic fluctuations; inflation; economic growth.

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

303. (3) **History of Economic Thought.**—The development of economic analysis from ancient to modern times including some description of the changing environment in which economists wrote. Readings include selections from the classics in the field from Aristotle to Keynes.

Text-book: Roll, **History of Economic Thought**, Enlarged, Third Ed. (3-0; 3-0)

308. (3) **Money and Banking.**—Origins of money media; the function of banks; measures of purchasing power; interest rate determination; problems of inflation; monetary management; foreign exchanges.

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

321. (3) **The Economic History of Canada.**—Special emphasis on the growth of the Canadian economy in relation to natural resource development, changing market conditions, industrialism, communications and technology. May be taken as a Second Year course with permission of the instructor.

Text-book: Easterbrook and Aitkin, **Canadian Economic History**. (3-0; 3-0)

400. (3) **Advanced Economic Analysis.**—Methodology; general and partial equilibrium; welfare economics. Theories of money, capital and interest; distribution; economic growth. Prerequisite: Economics 300 or 302.

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

402. (3) **International Trade.**—Comparative costs and factor endowments; terms of trade; free trade vs. protection; monetary mechanism; gold vs. paper; internal vs. external stability; the transfer problem; capital movements. Prerequisite: Economics 300 which may be taken concurrently.

Text-books: Kindleberger, **International Economics**; Meade, **A Geometry of International Trade**. (3-0; 3-0)

412. (3) **Theory of Economic Development.**—Theories of economic development with application to advanced and underdeveloped economies; problems of carrying out developmental programmes. Prerequisite: Economics 300 or 302.

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

415. (3) **Mathematical Economics.**—Dynamic models; input-output models; application of linear programming and theory of games to economic analysis; general equilibrium models and mathematics of marginal analysis. Prerequisite: Economics 300 or 302 and Mathematics 202 or 220, or permission of the instructor.

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

ENGLISH

Prerequisites

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

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

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

First Year

100. (3) **Literature and Composition.**—A study of literature in the nineteenth and twentieth centuries, and of the principles of composition. Themes and exercises are required.

Texts: *A Little Treasury of Modern Poetry*, revised edition, Ed. O. Williams; Shaw, *Saint Joan*; Shakespeare, *Othello*; Short Story text to be announced; *Four*

Great Comedies of the Restoration and Eighteenth Century; Huxley, *Brave New World*; Four Modern Plays, Rinehart Ed.; Thouless, *Straight and Crooked Thinking*; D. Robertson, *Errors in Composition*; R. McKeen Wiles, *Scholarly Reporting in the Humanities*; Text of Novel: To be announced. (4-0; 4-0)

Second Year

200. (3) **Literature and Composition.**—A study of literature from Wyatt to the end of the Romantic Period, and of the principles of composition. Themes and exercises are required.

Texts: *The College Survey of English Literature*, revised edition, Whiting, et al.; Shakespeare, *Hamlet* and *Henry IV, Part I*; Austen, *Pride and Prejudice*; Fielding, *Joseph Andrews*; *Etherege, Man of Mode*. (3-0; 3-0)

202. (3) **Writing.**—Practice in imaginative writing, with particular attention to the short story, the familiar essay, the novel, the one-act play, and to contemporary verse forms, but with reference also to radio and television forms. Also, candidates must submit for judgment, an original manuscript in one of the forms listed above. Prerequisite: English 100. (Not offered 1963-64). (3-0; 3-0)

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

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

Third and Fourth Years

300. (3) **English Composition.**—A study of the principles and practice of good writing. For credit in the Faculty of Education only.

Texts: *Webster's New Collegiate Dictionary*; *Roget's Thesaurus*; Colville and Koerner, *The Craft of Writing*; Nesfield, *Manual of English Grammar and Composition*; Perrine, *Sound and Sense*; *An Introduction To Poetry*. (3-0; 3-0)

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

Text: Johnson et al, eds., *Anthology of Children's Literature*. (3-0; 3-0)

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

Texts: A good dictionary (*Webster's Collegiate*, *The Concise Oxford*); *Roget's Thesaurus*; Nesfield, *Manual of English Grammar and Composition*. (3-0; 3-0)

401. (3) **Writing.**—Advanced practice in imaginative writing: drama, fiction, and poetry. Prerequisite: English 202 or the consent of the instructor. (3-0; 3-0)

405. (3) **Poetics.**—The imagination and the poetic process; the emotional element in poetry and the tests of value; the content of poetry and the nature of poetic truth; poetic form and its varieties, diction, imagery, tone-colour, and metrics.

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

408. (3) **Elizabethan and Jacobean Literature.**—Studies in the non-dramatic literary forms, conventions and ideas of the Renaissance in England. The development of the major types of poetry and prose will be studied in some detail. (Not offered 1963-64).

Texts: Lamson and Smith, *Renaissance England*; *The Age of Shakespeare*, ed. Boris Ford. (3-0; 3-0)

411. (3) **The Drama to 1642.**—Main emphasis upon the major Elizabethan dramatists, including Shakespeare; some attention is given to the influence of Greek and Roman dramatic theory and practice.

Text: Brooke and Paradise, *English Drama, 1580-1642*. (3-0; 3-0)

413. (3) **Shakespeare.**—Lectures on eight plays: *Richard III*, *Richard II*, *Twelfth Night*, *Othello*, *Measure for Measure*, *Macbeth*, *Coriolanus* and *The Winter's Tale*. Outside reading will consist of the poems and three additional plays.

Texts: Shakespeare, *The Complete Works*, ed. G. B. Harrison; *The Age of Shakespeare*, ed. Boris Ford. (3-0; 3-0)

424. (3) **Seventeenth-Century Literature, from Donne to Milton.**—Studies in the forms, styles and prose of the later Renaissance in England.

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

426. (3) **Restoration and Eighteenth-Century Literature.**—Particular emphasis will be placed on Restoration Comedy, Dryden, Pope, Swift and Dr. Johnson.

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

427. (3) **The English Novel.**—A study of the major novelists. Required reading: Richardson, *Pamela*; Defoe, *Moll Flanders*; Fielding, *Tom Jones*; Smollett, *Roderick Random*; Sterne, *Tristram Shandy*; Walpole, *Castle of Otranto*; Scott, *Heart of Midlothian*; Austen, *Emma*; Dickens, *Martin Chuzzlewit* and *Great Expectations*; Thackeray, *Vanity Fair*; Meredith, *The Egoist*; Hardy, *Tess of the d'Urbervilles*; Butler, *The Way of All Flesh*; Brontë, *Jane Eyre* and *Wuthering Heights*; Eliot, *Adam Bede*; Trollope, *Barchester Towers*; Conrad, *Lord Jim*; Lawrence, *Sons and Lovers*; Allen, *The English Novel*. (3-0; 3-0)

429. (3) **American Literature since 1890.**—A survey, with emphasis given to James, Dreiser, Eliot, O'Neill, Wolfe, Hemingway and Faulkner.

Texts: *A Little Treasury of Modern Poetry*, ed. Oscar Williams; *Twelve American Poets*, ed. Whicher and Ahnebrink; O'Neil, *Three Greatest Plays*; James, *The American*; Crane, *Red Badge of Courage*; Dreiser, *Sister Carrie*; Anderson, *Winesburg, Ohio*; Lewis, *Babbitt*; Dos Passos, *Manhattan Transfer*; Hemingway, *Farewell to Arms*; Faulkner, *Sound and the Fury*; Wolfe, *Look Homeward, Angel*; Steinbeck, *Grapes of Wrath*; Salinger, *Catcher in the Rye*; Styron, *Set this House on Fire*; Williams, *A Streetcar Named Desire*; Miller, *A View from the Bridge*; Heller, *Catch 22*. (3-0; 3-0)

430. (3) **The Romantic Period.**—Chiefly Wordsworth, Coleridge, Byron, Shelley and Keats. (Not offered 1963-64). (3-0; 3-0)

431. (3) **Victorian Poetry.**—Chiefly Tennyson, Browning, and Arnold. A few weeks devoted to later poetry.

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

433. (3) **Modern Period, English and Irish Literature, 1890-1914.**—This course is based primarily on the works of Hardy, Housman, Butler, Wells, Galsworthy, Shaw, Wilde, Hopkins, Yeats and Synge. The background of ideas and social forces as revealed through the literature and related arts of the period will receive close attention.

Required reading: Butler, *Erewhon and Erewhon Revisited*; Hardy, *Jude the Obscure*; Gerard Manley Hopkins, *Penguin Poetry*; Housman, *Collected Poems*; Shaw, *Major Barbara and Three Plays for Puritans*; Synge, *Four Plays and the Aran Islands*; Wells, *Tono-Bungay*; Wilde, *Plays, Prose Writings and Poems*; Yeats, *Collected Poems*; Gaunt, *The Aesthetic Adventure*; Galsworthy, *The Man of Property*. (3-0; 3-0)

434. (3) **Contemporary British Literature.**—Outstanding writers of the present generation; literary developments in the essay, poetry, and fiction. (3-0; 3-0)

Texts: *English Masterpieces*, Vol. 7; D. H. Lawrence, *Selected Poetry and Prose*, ed. Barnes; *Women in Love*, Penguin; Aldous Huxley, *Brave New World*, Penguin; T. S. Eliot, *Murder in the Cathedral*, Faber; E. M. Forster, *Passage to India*, Penguin; Joyce Carey, *Mr. Johnson*, Penguin; Graham Greene, *The Power and the Glory*, Compass; Kingsley Amis, *Lucky Jim*, Compass; James Joyce, *The Portable James Joyce*, ed. H. Levin; William Golding, *The Lord of the Flies*, Capricorn Books; Fellini, *La Dolce Vita*. (3-0; 3-0)

HONOURS COURSES

438. (3) **Old English Literature and the Development of the Language.**—An elementary study of Old English language and literature and the history of the language up to modern English.

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

440. (3) **Chaucer.**—Chaucer, his contemporaries and his followers, including a detailed study of Chaucer's major works.

Texts: *The Canterbury Tales*, ed. A. C. Cawley, and Part IV of *Pelican Guide*, Vol. 1; *The Age of Chaucer*, ed. Boris Ford. Other texts to be announced. (3-0; 3-0)

446. **Third Year Honours Seminar.**—The training of students in value judgments in literature.

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

447. (3) **Fourth Year Honours Seminar. History of Ideas.**—A seminar in the influence of the main currents of European thought on English literature.

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

THEATRE

200. (3) **Introduction to the Theatre.**—An examination of the arts of the live theatre. Some practical work in acting and direction will be expected, and a brief survey of the development of western theatre will require the reading of representative plays.

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

FINE ARTS

Primarily for students in the Faculty of Arts and Science.

126. (3) **Introduction to Art.**—This course is intended to provide an understanding and appreciation of painting, sculpture and architecture, and to prepare the student for qualified judgment of traditional and contemporary art forms.

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

For the Faculty of Education only (not available to students in Arts and Science.)

101. (3) **History of the Fine Arts.**—History of music, art and architecture, with emphasis upon the cultural development of mankind through the ages. Appreciation and understanding will be encouraged through illustration and discussion of major works.

Text-books: E. H. Gombrich, *The Story of Art*; Homer Ulrich, *Music; A Design for Listening*, 1957. (3-0; 3-0)

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

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

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

305. (3) **Design I.**—This course will include studio experiment in both two and three dimensional design problems with the purpose of developing a fuller understanding of the fundamental design principles. Prerequisites: Fine Arts 300 and 302 or equivalent courses. (Not offered 1963-64). (3-0; 3-0)

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

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

FRENCH

110. (3) **First Year University French.** (Prerequisite: French 20).—Study of French texts; grammar; pronunciation.

Texts: Wilson Micks, *Review of Basic French*; Moore and Meiden, *Onze Contes*; Palmeri, *French Masters*. (4-0; 4-0)

120. (3) **French Language and Literature, Part I.** (Prerequisite: French 92).—Study of French texts; grammar; pronunciation.

Texts: Sonet and Shortliffe: *Review of Standard French*; Molière, *Le Bourgeois gentilhomme*; Vercors, *Le Silence de la Mer*; *Representative French Poetry*, Graham. (4-0; 4-0)

210. (3) **Second Year University French.** (Prerequisite: French 110).—Reading of the following texts: Molière, *Le Bourgeois gentilhomme*; *Contes Modernes*, revised edition, 1949; Vercors, *Le Silence de la Mer*; *Representative French Poetry*, Graham; language study based on Sonet and Shortliffe, *Review of Standard French*. (4-0; 4-0)

220. (3) **French Language and Literature, Part II.** (Prerequisite: French 120).—A study of the following texts: Dougherty, *Perspectives de la Littérature Française*; Sartre, *Les Jeux sont faits*; Mauriac, *Thérèse Desqueyroux*; Gide, *La Symphonie Pastorale*; *La Cuisine des Anges*, ed. Andison and Pronger; *Representative French Poetry*, Graham. Reference: Sonet and Shortliffe, *Review of Standard French*. (4-0; 4-0)

223. (3) **Training in Speech and Writing.**—Composition, discussion, dictées, stylistics, advanced translation, literary genres. (Preparatory course for Honours students; given in French).

Texts: Balzac, *Le Père Goriot*; Whitmarsh and Jukes, *Advanced French Course. English-French, French-English Dictionary*, preferably Larousse. (3-0; 3-0)

302. (3) **French Oral and Written Practice.**—Composition; syntax; oral practice.

Texts: Whitmarsh, *Cours supérieur*; Loubet, *La Technique de la composition française*. (2-2; 2-2)

401. (3) **Literature of the Eighteenth Century.**—A study of the drama and the novel of the period, together with the basic writings of Voltaire, Montesquieu, Diderot, Rousseau. (Not offered 1963-64).

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

409. (3) **Literature of the Seventeenth Century.**—Lagarde et Michard, *XVII^e Siècle*; Corneille, *Le Cid*; Molière, *L'École des Femmes*; Racine, *Andronaque*, *Britannicus*, *Phèdre*. (3-0; 3-0)

411. (3) **Literature of the Nineteenth Century.**—Lagarde et Michard, *XIX^e Siècle*; *Classiques pour tous* edition of Atala, René, Hernani; Eugénie Grandet and others to be announced.

412. (3) **Baudelaire, The Parnassian and Symbolist Movements.**—A study in the poetry, theatre and criticism of the second half of the 19th century. (Not offered 1963-64). (3-0; 3-0)

415. (3) **The Contemporary Novel from 1918.**—A study of writings representative of the novel and the essay from Gide to Camus. (Not offered 1963-64). (3-0; 3-0)

GEOGRAPHY

Geography 101 is one of the elective sciences and is prerequisite to Third and Fourth Year courses.

101. (3) **Introduction to Physical Geography.**—Location, scale and maps; origin and distribution of land forms; elements of weather and climate; world climatic patterns; plant geography and properties of soils; world vegetation and soil patterns; mineral and water resources.

Text: J. van Riper, *Man's Physical World*, 1962. (3-2; 3-2)

201. (3) **Introduction to Economic Geography.**—An analytical survey of the areal distribution of economic activity. Considers regional economies, world patterns of production and exchange, sources and application of energy, and the production of selected commodities.

Texts: To be announced. *Shorter Oxford Economic Atlas of the World*. (3-0; 3-0)

207. (3) **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.

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

301. (3) **Cartography.**—Designed to provide both study and practical experience in the construction and use of various kinds of maps, map projections, diagrams, graphs, cartograms. Special attention given to those aspects of cartographic expression most likely to be useful in geographic analysis. Prerequisite: Geography 101.

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

302. (3) **Climatology.**—The elements of climate: meteorological instruments and weather observations; classification and description of climatic regions; climatic anomalies; selected topics in applied and micro-climatology. Prerequisite: Geography 101. (Not offered 1963-64). (2-2; 2-2)

303. (3) **World Geography.**—The major world patterns, followed by a survey of the physical and cultural geography of the continents. (Not credited for a geography major).

Texts: To be announced. *World Atlas*, Prentice-Hall. (3-1; 3-1)

304. (3) **The Geography of Settlement.**—The process of settlement; the grouping, functions and structure of rural and urban settlement; central place studies; map and photo interpretation; field study. Prerequisite: Geography 201 or 207. (Not offered 1963-64). (3-0; 3-0)

305. (3) **Urban Geography.**—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; the urban-rural fringe. Prerequisite: Geography 101. Recommended Geography 207.

Text: Mayer, H. M. and Kohn, C. F., *Readings in Urban Geography*. (3-0; 3-0)

307. (3) **Historical Geography.**—The geographical factors in the discovery, exploration and colonization of North America with special emphasis on Canada; a number of geographical settings will be reconstructed for periods of particular historical significance. Prerequisite: Geography 101. Recommended History 102.

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

408. (3) **Geography of Europe.**—Land forms, climatic characteristics, natural resources, population distribution. Prerequisite: Geography 101.

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

409. (3) **Geography of Canada and the United States.**—Land forms, climatic characteristics, natural resources, population distribution, primary industries. Prerequisite: Geography 101.

Text: To be announced.

(3-0; 3-0)

GEOLOGY

Geology 200 or 150 is prerequisite to all other courses in Geology. Students who intend to make Geology their profession are advised to take Geological Engineering or an Honours Course leading to the B.Sc. degree. Preparation for work in Geophysics is provided either by the Geophysics option in Geological Engineering or the combined Honours course in Physics and Geology (page 54).

200. (3) **General Geology.**—Physical and historical geology. Origin and structure of the earth, materials of the earth, diastrophism, erosion, land forms, mineral deposits, history of the earth and the development of life. Prerequisites: Chemistry 101 or 102, or Physics 101, or Zoology 105 or Botany 105, before or concurrently.

(2-2; 2-2)

GERMAN

First Year students fluent in German who wish to register for a German course will be required to take German 200; those in Second Year will take a course numbered 300 or above.

90. (3) **Beginners' German.**—Essential grammar, spoken and written drill; elementary readings in German history; selected poetry.

Text-books: Vail and Cunz, *German for Beginners*; Harold Von Hofe, *Im Wandel der Jahre*, revised; Hagboldt, *Allerlei*.

(4-0; 4-0)

110. (3) **First Year University German.**—Further study of grammar; readings in German civilization and 20th century fiction; a play, selected poetry. Prerequisite: German 20 or German 90 (Senior Matriculation) or Pass standing in German 90 (University course).

Text-books: Kriegel and Tracy, *Deutsche Gedichte*; Dürrenmatt, *Der Besuch der Alten Dame*; H. M. Waidson, *German Short Stories* (2 vols.); Cochran's *Practical German Review Grammar*; Cassell's *Compact German Dictionary*.

(4-0; 4-0)

120. (3) **First Year University German.**—Further study of grammar with some emphasis on composition. Study of short stories, a play and selected poetry. Prerequisite: German 92 or Second or First Class standing in German 90 (University course).

Text-books: Ryder, *Zehn Jahrzehnte*, Holt, 1959; Kriegel and Tracy, *Deutsche Gedichte*; Russon, *Complete German Course*; Phelps and Stein, *A German Heritage*, Revised, 1958; Cassell's *Compact German Dictionary*.

(3-1; 3-1)

200. (3) **German Literature from 1830-1870.**—A survey of German writing and thought, 1830-1870. Composition and critical essays. Oral tests. Prerequisite: German 110, 120 or the equivalent.

Text-books: Feise and Steinhauer, *German Literature Since Goethe*, Part 1, Lederer-Neuse, *Kleines Aufsatzbuch*; Cassell's *Compact German Dictionary*.

(3-0; 3-0)

300. (3) **The Classical Period.**—Literature of the 18th Century, with emphasis on the Drama of Lessing, Goethe and Schiller.

Texts: Lessing, *Minna von Barnhelm*; Nathan der Weise; Goethe, *Faust I*; Iphigenie; Schiller, *Maria Stuart*; Fairley, *Study of Goethe*; *Don Carlos*. Some outside readings will be assigned. (Not offered 1963-64).

(3-0; 3-0)

400. (3) **Nineteenth Century German Drama.**—

Text-books: T. M. Campbell, *Plays of the Nineteenth Century*; additional texts to be announced. (Not offered 1963-64).

(3-0; 3-0)

401. (3) **Twentieth Century German Literature.**—A study of the main trends in the poetry, prose, and drama of this century; discussion of representative works of Hofmannsthal, Wedekind, Mann, Hesse, Kaiser, Kafka, Werfel, Wiechert, Jünger, Bergengruen, and others. Offered in Evening Division.

Text-books: *Ergriffenes Dasein* (Holthusen and Kemp); *Modern German Drama* (ed. Steinhauer.) (3-0; 3-0)

404. (3) **The Romantic Movement.**—A study of the literature of the period against the background of philosophical, political and social developments.

Texts: G. Stenzel, *Die Deutschen Romantiker*, 2 vols. (3-0; 3-0)

GREEK

Greek 200 is open to students who have passed in Greek 100 or its equivalent; Greek 301 is open to those who have passed in Greek 200 or its equivalent.

100. (3) **Beginners' Greek.**—The elements of Attic Greek.

Text-books: Walters and Conway, *Deigma: A First Greek Book*; Nairn and Nairn, *Greek Through Reading*. (4-0; 4-0)

200. (3) **Introduction to Greek Prose Authors.**

Text-books: Walters and Conway, *Deigma: A First Greek Book*; Nairn and Nairn, *Greek Through Reading*; North and Hillard, *Greek Prose Composition*; Plato, *Apology and Crito*, Ed. Dyer and Seymour. (4-0; 4-0)

301. (3) **Greek Literature of the Classical Period.**—Plato's *Introduction to the Republic*; a play of Sophocles; practice in composition; brief survey of Greek literary history.

Text-book: C. M. Bowra, *Ancient Greek Literature*. Texts: Plato, *Republic*, Book I, D. J. Allen; Sophocles, *Electra*, ed. Jebb.

HISTORY

101. (3) **Main Currents in Twentieth-Century History.**—This course offers a background for contemporary world problems. Essays will be assigned throughout the Session. (Extra work will be required from Third and Fourth Year students taking this course.)

Text-book: Hughes, *Contemporary Europe*. (3-0; 3-0)

102. (3) **The History of Canada.**—Introductory general course. History 102 is recommended as a prerequisite for History 426. Essays will be assigned throughout the Session. (Extra work will be required from Third and Fourth Year students taking this course.)

Text-books: McInnis, *Canada, A Social and Political History*, Revised, 1960; Kerr, *A Historical Atlas of Canada*, 1961. (3-0; 3-0)

200. (3) **History of Modern Europe.**—This course describes the development of the main political and social events in modern European history, and is prerequisite to History Honours and a European History major. Essays will be assigned throughout the Session. (Extra work will be required from Third and Fourth Year students.)

Text-books: Palmer, *History of the Modern World*, Second Edition; Stearns, *Pagant of Europe*. (3-0; 3-0)

201. (3) **British History.**—A survey of British history from the late Anglo-Saxon period to modern times with emphasis on political and constitutional development. Essays will be assigned throughout the Session

Text-book: *The Pelican History of England*, Volumes 2 to 8, inclusive. (3-0; 3-0)

212. (3) **History of the United States of America.**—From colonial times to the middle of the Twentieth Century. (Not offered 1963-64).

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

303. (3) **History of British Columbia.**—The history of B.C. with special reference to the history of Canada and of the North West Pacific coast. Essays will be assigned throughout the Session.

Text-book: M. A. Ormsby, *A History of British Columbia.* (3-0; 3-0)

304. (3) **Mediaeval Europe, 500-1300.**—A general outline of mediaeval history from the fall of the Roman Empire to the 13th century. Essays will be assigned throughout the Session. Second Year students may, with special permission, be admitted to this course.

Text-book: Thorndike, *The History of Mediaeval Europe*, Third Ed. (3-0; 3-0)

310. (3) **British Imperial Policy.**—An analysis of British Colonial and Imperial history with emphasis on selected areas from the founding of the First British Empire to the present day.

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

313. (3) **The Rise of Modern Europe, 1300-1648.**—A survey of the economic, political and cultural development of Europe from the later Middle Ages to the Peace of Westphalia. Essays will be assigned throughout the session.

Text-book: H. Lucas, *Renaissance and Reformation.* (3-0; 3-0)

318. (3) **England Under the Tudors and Stuarts, 1485-1688.** (Not offered 1963-64).

Text-books: Elton, *England Under the Tudors*; Trevelyan, *England Under the Stuarts.* (3-0; 3-0)

333. (3) **Third Year Honours Seminar.**—Bibliography, Historical Method, and the Philosophy of History.

Text-book: W. H. Walsh, *Philosophy of History: An Introduction.* (2-0; 2-0)

400. (3) **Intellectual History of Modern Europe.**—From the Sixteenth Century to recent times. (Not offered 1963-64).

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

406. (3) **The History of France, 1715-1939.**—Special attention will be given to the revolutions of the 18th and 19th Centuries.

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

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

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

426. (3) **Canada After 1867.**—A survey of the main features of political and economic development of Canada after 1867, with some consideration of foreign policy.

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

427. (3) **The United States since the Civil War.**—A study of American political, economic, and social development. (Not offered 1963-64).

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

433. (3) **Fourth Year Honours Seminar.**—British History, 1793-1815.

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

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

Note: The following courses will be accepted for credit in History: Classical Studies 331, Russian 308.

LATIN

90. (3) **Beginners' Latin.**—For students with no previous knowledge of Latin; for credit only to students who have not offered Latin at High School Graduation.

Text-books: DeWitt, Gummere and Horn, *College Latin*; Cassell's *New Latin Dictionary*, Ed. Simpson. (4-0; 4-0)

110. (3) **First Year University Latin.**—Prerequisite: Latin 20 or Latin 90.

Text-books: Robinson and Hunter, *Roma*; Allen and Greenough, *New Latin Grammar*; W. Madely, *Noctes Latinae*; Gow's *Companion to School Classics*.
(4-0; 4-0)

120. (3) **Introduction to Latin Literature.**—Prerequisite: Latin 92 or Latin 90. (See note 1). Reading of an anthology of Latin prose and poetry; practice in prose composition.

Text-books: Lockwood, *A Survey of Classical Roman Literature*; Wilding, *Latin Course for Schools, Part 3*; Welch and Duffield, *Exercises in Unseen Translation in Latin*; Gow, *A Companion to School Classics*; Allen and Greenough, *New Latin Grammar*; Hadas, *A History of Rome*; Cassell's *New Latin Dictionary*, revised.
(3-0; 3-0)

210. (3) **Introduction to Latin Literature.**—Prerequisite: Latin 110. Reading of an anthology of Latin prose and poetry; practice in prose composition.

Text-books: Lockwood, *A Survey of Classical Roman Literature*; Wilding, *Latin Course for Schools, Part 3*; Welch and Duffield, *Exercises in Unseen Translation in Latin*; Gow, *A Companion to School Classics*; Allen and Greenough, *New Latin Grammar*; Hadas, *A History of Rome*; Cassell's *New Latin Dictionary*, revised.
(4-0; 4-0)

220. (3) **Prose and Poetry of the Golden Age.**—Prerequisite: Latin 120 or 110 (See note 2). Prose of Cicero; Horace's adaptations of the Greek Lyric; the developed Epic as represented by Vergil; history of Greece.

Text-books: Allen and Greenough, *New Latin Grammar*; Cicero, *Catilinarian Orations*, ed. Upcott; Vergil, *Aeneid VI*, Ed. Fletcher; Horace, *Odes and Epodes*, Ed. Page.
(3-0; 3-0)

303. (3) **Vergil.**—A study of Vergil's works with selected readings from the *Eclogues*, *Georgics*, *Aeneid* and the minor poems; history of Latin literature. Prerequisite: Latin 220 or 210. (Not offered 1963-64).

Text-books: Vergil, *Eclogues and Georgics*, Ed. Page; Vergil, *Aeneid*, 2 vols., Ed. Page; Vergil, *Pastoral Poems*, trans. E. V. Rieu; Vergil, *Aeneid*, trans. W. J. Knight.
(3-0; 3-0)

304. (3) **Prose and Poetry of the Silver Age.**—Tacitus and Juvenal; history of Latin literature.

Text-books: Tacitus, *Annals*, Ed. Furneaux and Pitman; Juvenal, *Satires*, Ed. Duff.
(3-0; 3-0)

310. (1½) **Composition.**—Obligatory for Honours students in the Third Year. Prerequisite: Latin 220 or 210.

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

405. (3) **Latin Letter Writing.**—Two different styles of letters by two masters. Prerequisite: Latin 220 or 210. (Not offered 1963-64).

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

406. (3) **Latin Poetry.**—A survey of Latin poetry from the earliest native verse to late Imperial and early Christian literature.

Text: *The Oxford Book of Latin Verse*, Garrod.
(3-0; 3-0)

Notes:

1. With Departmental permission, a First Class student in Latin 90 (or from high school Latin 91) may be admitted to Latin 120.
2. With Departmental permission, a First Class student in Latin 110 may be allowed to advance to Latin 220.

MATHEMATICS

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

120. (3) **Fundamental Mathematics.**—Trigonometry, analytic geometry and calculus.

Text-book: To be announced. (4-0; 4-0)

201. (3) **The Mathematics of Finance.**—Theory of annuities and their application, amortization, sinking funds, depreciation and the valuation of bonds. An introduction to the theory of electronic computation. Primarily for students in Commerce. Prerequisites: Mathematics 120 and Commerce 151 (which may be taken concurrently) or the consent of the Department.

Text-book: Ferns, H. H., **Mathematics of Canadian Finance.** (3-0; 3-0)

202. (3) **Calculus.**—Introduction to differential and integral calculus, with applications. Prerequisite: Mathematics 120.

Text-book: Sherwood and Taylor, **Calculus, Third Edition.** (3-0; 3-0)

203. (3) **Elementary Mathematics for Teachers.**—For credit only in the Faculty of Education.

Text-books: Grossnickle and Brueckner, **Discovering Meanings in Arithmetic;** M. L. Hartung et al., **Charting the Course for Arithmetic;** Mimeographed material.

205. (3) **Elementary Statistics.**—Descriptive statistics, introduction to probability and sampling, correlation, index numbers, time series, simple analysis of variance. Prerequisite: Mathematics 120.

Text-books: Freund and Williams, **Modern Business Statistics;** Lindley and Miller, **Cambridge Elementary Statistical Tables.** (3-2; 3-2)

220. (3) **Differential and Integral Calculus.**—Prerequisite: At least second class standing in Mathematics 120 and the consent of the Department.

Text-book: Caunt, **Elementary Calculus.** (3-0; 3-0)

221. (3) **Algebra and Geometry.**—Prerequisite: At least second class standing in Mathematics 120 and the consent of the Department.

Text-book: Uspensky, **Theory of Equations.** (3-0; 3-0)

Primarily for Third Year Students.

Students who have obtained satisfactory standing in Mathematics 300, 310, 308-322, 402-410, 320-412, and 441 and have fulfilled other subject requirements will be admitted to the First Year of the Master's programme in the Faculty of Graduate Studies at the University of British Columbia.

300. (3) **Advanced Calculus.**—Ordinary differential equations, application of differential and integral calculus, series. Prerequisite: Mathematics 202 or 220.

Text-book: Kaplan, **Advanced Calculus.** (3-0; 3-0)

306. (3) **Topics in Geometry.**—A study of various geometries with attention to the foundations of the subject. Prerequisite: Mathematics 202 or 220. (3-0; 3-0)

308-322. (3) **Matrices, Vector Spaces, Groups, Rings, Fields.**—Prerequisite: Mathematics 221 or 310.

Text-book: Birkhoff and MacLane, **A Survey of Modern Algebra.** (3-0; 3-0)

310. (3) **Algebra and Geometry.**—Prerequisite: Mathematics 202 or 220. Not open to students who have credit for Mathematics 221.

Text-book: Uspensky, **Theory of Equations.** (3-0; 3-0)

320. (3) **Elementary Real Variable Theory.**—Point sets, continuity, function theory.

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

Primarily for Fourth Year Students.

402-410. (3) **Theory and Applications of Differential Equations.**—Prerequisite: Mathematics 300.

Text-book: Kells, **Elementary Differential Equations**, Fifth Edition. (3-0; 3-0)

405. (3) **Mathematical Statistics.**—Statistical analysis with emphasis on sampling theory and the testing of statistical hypotheses; applications to problems in the sciences. Prerequisite: Mathematics 300. (3-0; 3-0)

412. (3) **Functions of Complex Variable and Application.**—Sets of points in complex plane. Heine-Börel theorem, regular and elementary functions, complex integrals, Cauchy's, Taylor's, Laurent's theorems, power series, calculus of residues, analytic continuation theory, conformal representation.

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

441. (3) **Seminar in Mathematics.** (2-0; 2-0)

MUSIC

120. (3) **Introduction to Music History and Literature.**—A survey of music literature in the changing cultural patterns of Western civilization from antiquity to the present day.

Text-book: McKinney and Anderson: **Music in History: The Evaluation of an Art**, Second Edition. (3-0; 3-0)

PHILOSOPHY

100. (3) **Introduction to Philosophy.**—A systematic presentation of the problems of philosophy from the early Greeks to the present day.

Text-books: Plato, **Republic**; Aristotle, **Nicomachean Ethics**; Descartes, **Discourse on Method and Meditations**; Berkeley, **Three Dialogues**; Ryle, **Dilemmas**; Webb, **History of Philosophy**. (3-0; 3-0)

202. (3) **Logic and Scientific Reasoning.**—Introductory deductive logic; the grounds of empirical knowledge; scientific procedures and attitudes; practice in criticising arguments.

Text-book: Copi, **Introduction to Logic**. (3-0; 3-0)

210. (3) **Ancient Philosophy.**—Western philosophic thought from Thales to St. Augustine, with principal stress on Plato and Aristotle. Prerequisite: Philosophy 100 or equivalent. (Not offered 1963-64).

Text-books: Cornford, **Before and After Socrates, Plato's Theory of Knowledge**; Plato, **Euthyphro, Apology, Crito, Phaedo**; Aristotle, **Introduction to Aristotle**; Randall, **Aristotle**. (3-0; 3-0)

302. (3) **Ethics.**—A study of problems in ethics based on the reading of classic texts.

Text-book: **Ethical Theories**, Ed. Melden. (3-0; 3-0)

315. (3) **Rationalism.**—The systematic study of Descartes, Spinoza, and Leibniz. Prerequisite: Philosophy 100. (Not offered 1963-64).

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

320. (3) **Empiricism.**—The systematic study of Hobbes, Locke, Berkeley, and Hume. Prerequisite: Philosophy 100.

Texts: Hobbes, **Leviathan** (Parts I and II); Locke, **Essay Concerning Human Understanding** (Books II and IV); Berkeley, **A Treatise Concerning the Principles of Human Knowledge**; Hume, **An Enquiry Concerning Human Understanding**. (3-0; 3-0).

415. (3) **Contemporary Philosophy.**—An introduction to the philosophic thought of the Twentieth Century. Prerequisite: Philosophy 210 or 315 or 320 or instructor's permission.

Text: Passmore, *A Hundred Years of Philosophy.* (3-0; 3-0)

PHYSICS

Note 1: Students who plan to take only one course in Physics, either to meet the calendar requirements for a science or to acquire some knowledge of the modern physical world, are advised to take Physics 103. All who propose to take an Honours or Major Course in science, or any professional course, must take Physics 101.

Note 2: Physics 312 is intended for major course students. If credit has been obtained for Physics 222, additional credit will not be given for Physics 312.

101. (3) **Elementary Physics.**—Students who have not obtained credit for Physics 91 in High School must register in the Physics 101 section having 5 hours of lectures per week. Prerequisite: Mathematics 120 must precede or be taken concurrently with this course.

Text-book: Smith and Cooper, *The Elements of Physics*, Sixth 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 may not take this course. It is intended for students who wish to acquire some knowledge of a physical science as part of their cultural background.

Text-book: White, *Descriptive College Physics.* (3-2; 3-2)

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. Prerequisite: Physics 101, Mathematics 202 or 220 (may be taken concurrently).

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

222. (3) **Optics.**—Geometrical and physical optics, optical instruments, interference, diffraction, polarization. Prerequisite: Physics 101, Mathematics 202 or 220 (may be taken concurrently).

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

312. (3) **Optics.**—Geometrical and physical optics, optical instruments, interference, diffraction, polarization, spectroscopy. Prerequisite: Physics 101, Mathematics 202 or 220.

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

321. (3) **Classical Mechanics.**—Analytic mechanics of particles, rigid bodies and fields. Prerequisite: Physics 211; Mathematics 300 should be taken concurrently.

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

322. (3) **Electricity and Magnetism.**—Fundamentals of electricity and magnetism, basic circuit theory, and concepts of electric and magnetic fields leading up to Maxwell's equations. Prerequisite: Physics 211, Mathematics 300 to be taken concurrently.

Text-book: Winch, *Electricity and Magnetism.* (3-3; 3-3)

324. (3) **Topics in Mathematical Physics and Elementary Theory of Measurement.**—Application of differential equations and vector analysis to selected topics; frequency distribution, interpolation, least squares. Prerequisite: Physics 211; Mathematics 300 should be taken concurrently. (Not offered 1963-64).

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

413. (3) **Introductory Modern Physics.**—The major phenomena in the fields of atomic and nuclear physics. Prerequisite: Physics 211; Mathematics 300 should be taken concurrently.

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

421. (3) **Thermodynamics and Statistical Mechanics.**—The laws of thermodynamics with applications, Boltzman, Bose-Einstein and Fermi-Dirac statistics. Prerequisites: Physics 211, Mathematics 300. (Not offered 1963-64).

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

422. (3) **Electronics and Electro-magnetic Theory.**—Electronic circuits and their application to physics, rectification, amplification, detection, potential theory, Maxwell's equations, electromagnetic waves. Prerequisite: Physics 322.

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

423. (3) **Modern Physics.**—Elementary Quantum Mechanical Treatment of topics in nuclear, atomic and solid state physics. Prerequisite: Physics 413. (Not offered 1963-64).

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

429. (3) **Senior Laboratory.**—Advanced experiments in electricity, electronics, magnetism, modern physics. (0-6; 0-6)

Physics Seminar — Honours students will be required to participate.
(Not offered 1963-64).

POLITICAL SCIENCE

200. (3) **Government of Canada.**—A basic introductory course to acquaint the student with the institutions of government in Canada, the manner in which they function and interact, and the political processes which surround and influence them. Two essays. Prerequisite: First Year standing.

Text-book: Dawson, *The Government of Canada*. (3-0; 3-0)

201. (3) **Governments of Britain and the United States.**—The constitutions, systems of government and political processes of the United Kingdom and the United States. Prerequisite: First Year standing.

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

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

Text-book: Sabine, *History of Political Theory*. (3-0; 3-0)

301. (3) **European Governments.**—A survey of the governments and politics of some of the following countries: France, Germany, Italy, the Netherlands, Belgium, Switzerland, the Scandinavian countries, the "People's Democracies" of Eastern Europe, the U.S.S.R.

Text-book: Neumann, *European and Comparative Government*, Third Ed., 1960. (3-0; 3-0)

302. (3) **Public Administration.**—The structure and organization of the administrative branch of government, in theory and practice. Illustrations are drawn from Canada, Great Britain, and the United States. Administrative powers and administrative responsibility in the modern state. The personnel policies of modern governments, and the agencies of control. Prerequisite: Political Science 200 or 201.

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

401. (3) **Federalism.**—An intensive study of Dominion-Provincial relations in Canada, in their constitutional, economic and political aspects. Comparisons will be made with the federal systems of other countries such as the United States, Australia, South Africa and Switzerland. Readings to be assigned.

Text-book: Wheare, *Federal Government*; additional text to be announced. (3-0; 3-0)

401. (3) **Municipal Government.**—A comparative study of local government institutions in the English-speaking world, with special attention to Canada. (Not offered 1963-64).

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

PSYCHOLOGY

Psychology 100 and 200 or 206 are prerequisite to all Third and Fourth Year courses.

100. (3) **Introductory Psychology.**—A study of the basic forms of human behaviour including the sensory, mental, social, emotional and motivational aspects of human activity. Experimental demonstrations, individual participation in student research, and group discussions will be used to complement the lectures.

Text-book: Munn, **Psychology**, Fourth Edition. (3-0; 3-0)

200. (3) **Experimental Psychology.**—Introductory statistical techniques; research methods illustrated by individual and group laboratory studies. Prerequisites: Psychology 100, and Mathematics 120 or equivalent which must precede or be taken concurrently with this course.

Text-book: American Psychological Association Publication Manual; additional texts to be announced. (2-2; 2-2)

206. (3) **Dynamics of Behaviour.**—An experimental, dynamic and social approach to behaviour adjustment with special reference to applications. Prerequisite: Psychology 100.

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

301. (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.

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

305. (3) **Personality Theory.**—Approaches to personality theory, principal theoretical problems, theories of personality as represented by psychological systems.

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

307. (3) **Motivation and Emotion.**—A study of principles and theories of motivation and emotion, including physiological and social processes, theoretical and experimental developments and influences on behavioral processes.

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

308. (3) **Social Psychology.**—Personality development, motivation, beliefs and attitudes, language, institutional behavior, leadership, propaganda, freedom and control, major social problems.

Text-book: Macoby, et al., **Readings in Social Psychology**, Third Ed., 1958. (3-0; 3-0)

Note: Admission to the following courses is by permission of the instructor.

400. (3) **Abnormal Psychology.**—Understanding human nature by a study of abnormal behaviour and mental processes; field trips and case studies. Prerequisites: Psychology 200 or 206, and 301 or 305 or 308.

Text-book: Coleman, **Abnormal Psychology and Modern Life**, Second Ed. (3-0; 3-0)

401. (3) **Clinical Psychology.**—Basic principles of the clinical applications of psychology. Analysis of the clinical process; survey of the clinical psychologist's role, functions, and techniques in mental health services. Prerequisite: Psychology 200 and 305 or 308. (Not offered 1963-64). (3-0; 3-0)

403. (3) **Tests and Measurements.**—The principles underlying the construction of psychological tests; a critical evaluation of intelligence, aptitude, achievement, attitude, interest and personality tests. Prerequisite: Psychology 200.

Text-book: Cronbach, **Essentials of Psychological Testing**, Second Ed., 1960. (3-0; 3-0)

405. (3) **Learning.**—A critical survey of the basic experimental findings and theory of the learning process. Prerequisite: Psychology 200.

Text-books: Kimble, Hilgard and Marquis, **Conditioning and Learning**, 2nd edition, 1961; Birney and Teevan, **Reinforcement**, 1961. (3-0; 3-0)

410. (3) **Research Methodology.**—Use of statistical techniques utilized in summarizing and drawing conclusions from psychological research, with special attention given to the relation of statistics to the design of experiments. Prerequisites: Psychology 200 and one Third or Fourth Year course.

Text-books: Wertheimer and Scott, *Psychological Research*; Siegel, *Non Parametric Statistics for the Behavioral Sciences*; McNemar, *Psychological Statistics*, 3rd Ed., 1962. (2-3; 2-3)

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

RUSSIAN

100. (3) **Basic Russian.**—First introductory course in the Russian language.
Text-book: H. G. Lunt, *Fundamentals of Russian.* (4-0; 4-0)

200. (3) **Second Year of Russian.**—Second course in the Russian language.
Text-books: To be announced. (3-0; 3-0)

300. (3) **Nineteenth and Twentieth Century Russian Literature.**—Selected readings in Russian Literature, History, Linguistics and Literary Criticism. The selected texts will be analysed and discussed in Russian. (Not offered 1963-64).

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

306. (3) **Russian Literature in Translation.**—Genesis and development of Russian literature from the 11th century to the Soviet Period. A knowledge of Russian is not required for this course.

Texts: Chizhevskij, *History of Russian Literature from the 11th Century to the Baroque*; Mirsky, *A History of Russian Literature*; Struve, *Soviet-Russian Literature.* (3-0; 3-0)

308. (3) **History of Russia.**—The antecedents of the Russian State; foundation and growth, with particular attention to colonization and expansion; evolution of political institutions; the history of the revolutionary movement and the development of Russian Marxism; the Soviet State. This course will be accepted for credit in History.

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

400. (3) **History of Russian Literature.**—Lectures on the cultural history of the Russian language and its linguistic evolution. Course will be conducted in Russian.

Reference material: To be announced. (3-0; 3-0)

SOCIOLOGY

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

200. (3) **Introduction to Sociology.**—A general introduction to the sociological analysis of selected topics (such as values, work, stratification, kinship and socialization, particular social roles and the problem of national character) which together would constitute a broad description of a large scale society. (3-0; 3-0)

Text-book: Kingsley Davis, *Human Society.*

305. (1½) **Kinship and Primary Groups.**—The main features and variations of the kinship system of Western societies; contrasts between the family and other kinds of small groups. Readings to be assigned. (3-0; 0-0)

306. (1½) **Socialization and Social Roles.** Stages in the learning of social roles; age as a principle of social organization; processes governing the acquisition of adult roles. Readings to be assigned. (0-0; 3-0)

310. (3) **Small Groups.**—Analysis and discussion of field studies and laboratory experiments on small groups in various settings. The contribution of this research to the development of theory. (Not offered 1963-64).

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

315. (3) **Social Stratification.**—The various dimensions of class in modern society, such as class consciousness, status groups, power, social mobility. The consequences of these.

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

320. (3) **The Sociology of Work.**—Attitudes to work, similarities and differences between occupations; the nature of professions; the contrast between jobs and careers.

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

SPANISH

90. (3) **Beginners' Spanish.**—Grammar, composition, translation, oral work. Texts: Mapes and Webber, **Brief Course in Spanish**; Eoff and King, **Spanish American Short Stories**; Cano, **La Vida de un Picaro**. (4-0; 4-0)

110. (3) **First Year University Spanish.** (Prerequisite: Spanish 20 or pass standing in Spanish 90).—Review of grammar, translation, composition, oral work.

Texts: H. Loss, **A Brief Spanish Review Grammar**; Rodríguez, **Cuentistas de hoy**; Barlow and Steel, **Noche Oscura en Lima**; Barrios, **Cuatro Cuentos**; Herman and Brady, **El Asesino Desvelado**. (4-0; 4-0)

120. (3) **First Year University Spanish.** (Prerequisite: Spanish 92 or Second Class or better in Spanish 90).—Review of grammar, translation, composition, oral work.

Texts: Walsh, **Repaso**; Sacks, **Cuentos de hoy y de ayer**; Grismer and Olmsted, **Personajes del Mundo Hispánico**; Casona, **La Barca sin Pescador**; Batchelor, **Cuentos de acá y de allá**. (4-0; 4-0)

201. (3) **Second Year University Spanish.**—Study of modern authors and of **Don Quijote**, composition and assigned themes in Spanish, conversation.

Texts: Foster, **Spanish Composition**; Ibáñez, **La Barraca**; Castro, **Iberoamérica**; Cervantes, **Don Quijote de la Mancha**; Rogers and Butler, **Florilegio de Cuentos Espanoles**. (4-0; 4-0)

302. (3) **Modern Authors.**—Study of nineteenth and twentieth century authors. (Not offered 1963-64).

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

403. (3) **The Golden Age.**—Spanish authors of the sixteenth and seventeenth centuries, with the exception of Cervantes.

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

ZOOLOGY

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

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

202. (3) **Vertebrate Zoology.**—Comparative anatomy; evolution and phylogeny of the vertebrates; dissection of representative forms.

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

301. (3) **Invertebrate Zoology.**—Morphology; taxonomy; life histories of invertebrates with special reference to marine forms. Prerequisite: Zoology 202.

Text-books: Borradaile, Potts, Eastham, Saunders, *The Invertebrata*, New Edition; Bullough, *Practical Invertebrate Anatomy*. (2-3; 2-3)

302. (3) **Microanatomy.**—Morphological and physico-chemical organization of the cell, description of the fundamental tissues; introductory embryology with an emphasis on causal principles of development.

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

303. (3) **Vertebrate Physiology.**—Introductory organ physiology. (Zoology majors and Honours students may substitute Biology 400 for this course but will not receive credit for both.). Prerequisite: First Year Chemistry. (2-2; 2-2)

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

400. (3) **Principles and History of Biology.**—Lectures and seminar on the principles of biology, history and recent advances. (2-0; 2-0)

Text-book: Nordenskiöld, *History of Biology*, 1948.

Special Group:

414. (2) **Marine Invertebrate Zoology.**—General problems in ecology, morphology and physiology of marine invertebrates. Prerequisite: Zoology 301 or equivalent and consent from the instructor. (Not offered 1963-64).

Text-book: To be announced. (1-3; 1-3)

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

Text-book: To be announced. (2-3; 2-3)

430. (3) **Physiology of Marine Animals.**—Introductory comparative physiology; an experimental approach to study of physiological functions of invertebrate and vertebrate marine animals.

Text: To be announced. (2-3; 2-3)

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

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

FACULTY OF COMMERCE AND BUSINESS ADMINISTRATION

COURSES LEADING TO THE DEGREE OF B. Com. (Commerce)

(Five-year course, two years of which may be taken at Victoria College).

A student who completes the course of studies in any of the following options will receive the degree of Bachelor of Commerce (B.Com.).

- | | |
|--|--|
| 1. Accounting. | 8. Commerce and Science. |
| 2. Marketing. | 9. Commerce and Actuarial Science. |
| 3. Industrial Administration. | 10. Commerce and Teaching. |
| 4. Finance. | 11. Commerce and Forestry. |
| 5. Transportation and Utilities. | 12. Commerce and Law (for combined degrees). |
| 6. Commerce and Economics. | 13. Industrial Relations. |
| 7. Commerce and Public Administration. | 14. Estate Management. |

For admission to the Faculty of Commerce and Business Administration, students must have completed 15 units in First Year Arts and Science or its equivalent. (See Pre-Commerce requirements page 82).

Regulations Regarding Commerce Courses

- (1) 15 units constitute a full course in the First Year of the B. Com. programme.
- (2) Without the special permission of the Principal no student may take fewer than 15 units in First Year Commerce.
- (3) Not later than the end of the First Year in Commerce, students are expected to choose their field of concentration and thereafter follow the prescribed course of studies.

Examinations

Examinations are held in December and in April. December examinations are held in all subjects of the First Year, and are obligatory for all students.

Standing and Credit

(1) Candidates, in order to pass, must obtain at least 50 per cent. in each subject; in a course which comprises both lecture and laboratory work they will be required to pass in both the written examinations and laboratory work before standing in the course is granted. The grades are as follows: First Class, an average of 80 per cent. or over; Second Class, 65 to 79 per cent.; Passed, 50 to 64 per cent.

Supplementals

(1) If a student's general standing in the final examination of any year is sufficiently high, the Faculty may grant him supplemental examinations in a maximum of 3 units. Notice will be sent to all students to whom supplementals have been granted.

(2) Students who have failed in more than 6 units of a required year's work will be considered to have failed in the work of the year, and will not receive credit for any of the courses passed in that year.

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

Re-Readings

See page 20.

Unsatisfactory Standing

(1) A student who twice fails, as defined in the section on "Supplementals," paragraph 2, may, upon the recommendation of the Faculty, be required by College Council to withdraw from the Faculty of Commerce and Business Administration.

(2) Any student whose academic record, as determined by the tests and examinations of the first term, is found to be unsatisfactory may, upon the recommendation of the Faculty, be required by the College Council to discontinue attendance at the College for the remainder of the session.

OPTION REQUIREMENTS

Pre-Commerce

Students who have completed First Year Arts and Science or its equivalent with standing in 15 units, including English 100 (Literature and Composition) and Mathematics 120, will be admitted to any option other than 8 or 11. Students who contemplate admission to options 8 or 11 must have obtained standing in two First Year sciences, English 100, Mathematics 120 and one elective.

It should be noted that, beginning with September, 1963, Mathematics 120 is the prerequisite for Mathematics 202 or 220.

FIRST YEAR COMMERCE

Option No.	
1 to 14	Com. 151; Eng. 200; Econ. 200.
1, 3*, 4, 14	Math. 201; 3 units of electives.
2, 5, 6, 7, 12,	6 units of electives.
8**	3 units of Science; 3 units of electives.
9	Math. 202, 3 units of electives; or Math. 220 and 221.
10***	Com. 90, 101; Educ. 200, Educ. 298.
11	Bot. 105; 3 units of electives.
13	Psych. 100; 3 units of electives.
1 to 14	Electives may be selected from: Math. 200 level course; Geog. 201; Psych. 100 or 206; Hist. 101 or 102; Phil. 100; Pol. Sc. 200; Language; Science; Anthropology; Sociology.

* Students in Option 3 who have at least second class standing in Mathematics 120 and are interested in Operations Research, may elect Mathematics 220 and 221 in 1st Year; with at least second class standing in these courses they may, in 2nd Year, elect Math. 320 and substitute Math. 321 for Statistics (Econ. 304 or Math. 205).

** Math. 205 should be chosen by those who propose to take Biology, Botany, or Zoology as a major. Math. 202 should be elected by students who propose to take Chemistry or Physics as a major.

*** Students should seek advice at registration as to the sequence of courses in the electives taken. Economics 200 to be taken in Second Year in Option 10. Substitutes for Commerce 90 and 101 *must* be taken by students with Secretarial majors from high school. Substitutes *may* be taken by other Option 10 students who are able to demonstrate competence in shorthand and type-writing.

THE FACULTY OF EDUCATION

The Faculty of Education offers programmes leading to an undergraduate degree in Education, granted by the University, and to teaching certificates, awarded by the Department of Education of the Province of British Columbia, in the fields of elementary and secondary teacher education. The degree granted is Bachelor of Education (B.Ed.),

Graduate programmes leading to a Master's or Doctor's degree in education are offered in the Faculty of Graduate Studies of the University of British Columbia. (See University of B.C. Calendar).

UNDERGRADUATE CERTIFICATE AND DEGREE PROGRAMMES

A. In the Elementary Teaching Field:

(1) A four-year programme from High School Graduation (University Programme), leading to the degree of B.Ed. in the elementary teaching field and meeting the course requirements for the Interim Professional C Teaching Certificate. Successful completion of the first two years of this programme fulfills requirements for the interim Elementary Basic Teaching Certificate.

(2) A one-year professional programme for students with full First Year in Arts and Science, or its equivalent, or one or more years' credit in another faculty. Successful completion of this professional year fulfills requirements for the interim E.B. Certificate (two years approved credit) or the interim Elementary Advanced Certificate (three years approved credit).

(3) A one-year teacher-training programme for graduates of a faculty other than Education who are interested in elementary or junior secondary school teaching. Successful completion of this year fulfills requirements for an interim Professional Basic Certificate.

B. In the Secondary Teaching Field:

(1) A five-year programme from High School Graduation (University Programme), leading to the degree of B.Ed. in the secondary teaching field and meeting the course requirements for the P.B. interim Teaching Certificate.

(2) Programmes enabling elementary teachers with the first two years of credit toward the degree of B.Ed. in the elementary field to complete, by winter or summer sessions, the remaining three years of training leading to the interim Professional Basic Teaching Certificate and the degree of B.Ed. in the secondary field.

(3) A one-year teacher-training programme enabling graduates, with an acceptable bachelor's degree from a faculty other than Education, to meet the requirements for the interim P.B. Teaching Certificate. (In 1963-64 this programme will be limited at Victoria College to those with acceptable majors in two of Art, English, French, Geography, History, Mathematics and Music.)

Teaching Certificates

Since sole authority to issue teaching certificates rests with the Provincial Department of Education, Victoria, B.C., a degree or diploma from the University is not a licence to teach. The standing of candidates who successfully complete any of the above programmes will be reported by the University or the College to the Department of Education.

ADMISSION REQUIREMENTS

Applicants for admission to the Faculty must meet the general requirements on pages 16 and 17. The College reserves the right, however, to reject applicants for admission to the Faculty on the grounds of physical or health disabilities, or for other reasons, including unsatisfactory academic record. Special additional requirements for admission to the one-year post-graduate course are listed below:

For the One-Year Programme for Graduates, B (3) above:

- (a) Candidates will be admitted who:

Hold a degree from a recognized university with completed majors (9 units of work in each in the Third and Fourth Years), or the equivalent thereof, in two of the following subjects: Art, Biological Sciences (Biology, Botany, Zoology), Chemistry, English, French, Geography, German, History or International Studies, Latin, Library, Mathematics, Music, Physics, Russian, Spanish, Theatre, and have obtained an average of 65% in those courses of the two senior years which go to make up each of these majors. At least one of the majors offered must be in a subject widely taught in British Columbia Secondary Schools. Students planning to enter teaching would be well advised to consult the section on "Teaching Majors for Secondary Teachers", pages 95 to 99.

or

Have completed an Honours or a Master's degree in one of the above.

(b) Candidates with averages in the range 60% - 65% but who do not meet the above requirements, as well as those holding other degrees such as B.A.Sc., B.Com., B.H.E., B. Mus., B.P.E., B.S.A., B.S.F., B.S.P., LL.B., and who wish to be considered for admission, should apply in writing to the Registrar requesting that their cases be reviewed by the Committee on Admission, Standings and Courses. Applications of this type should be received by the Registrar prior to August 15th.

Admission with Advanced Standing

(a) Students with full First Year Arts and Science or its equivalent, will be admitted to the Second Year of either programme leading to a degree in Education.

(b) Students from other universities and from other countries are referred to pages 16 and 17.

(c) Students who are completing work for a degree in another faculty may transfer to the Faculty of Education. Credit will be given for those courses, already completed, which meet the requirements of the programme in Education selected.

(d) Students transferring from the degree programme in the elementary field to the degree programme in the secondary field, or from one major to another within a programme, will be given credit for those courses already completed which meet the requirements of the newly selected programme. No application for transfer will be approved when the student has failed the previous year's work. No credit will be granted to Elementary transfers for the professional courses of the second year of the Elementary programme unless all the professional work of the first two years has been successfully completed at the time of transfer.

(e) A student who has completed courses at another university may submit to the Registrar a transcript of his record to be evaluated toward the requirements for a degree in Education at the University of British Columbia or Victoria College. Once registered in the Faculty, however, the candidate may expect credit for courses subsequently taken elsewhere only when prior permission has been obtained from the Director of Teacher Education. Candidates must complete the final year of the degree course in Elementary Education, and the final two years of the degree course in Secondary Education, in the University of British Columbia or Victoria College.

Inquiries Regarding Admission

Students who plan to enroll in the Faculty of Education for the first time should write to the Registrar, Victoria College, Victoria, B.C., before August 1st. Needless delay will be avoided if the following information is provided:

- (a) name in full;
- (b) official transcripts of high school and university records;
- (c) a "transfer of credits" statement from the Registrar, Department of Education, Victoria, B.C., if applicant holds a B.C. Teacher's Certificate;
- (d) statement as to the particular course or programme in Education desired, and, where this involves the secondary programme or the upper years of the elementary programme for the B.Ed. degree, a statement of the subject or subjects preferred for majors or for honours.

Registration

Registration of qualified students in the Faculty is governed by the general regulations on pages 17-18, except that no student will normally be allowed to register or transfer after the first day of instruction.

Fees and Expenses

Fees paid by students in the Faculty are comparable to those in other faculties of the University. The tuition and student fees are \$346 in each year of the course.

For expenses of board and room see page 15.

Students should allow from \$50 to \$100 for books and equipment and a similar amount to cover the cost of travel to schools for practice-teaching throughout the regular winter session. Students taking Education 197, 297 or 499 are reminded that their year is not completed until the middle of May and that they must allow for travel and living expenses for the three-week post sessional period in parts of the province other than the Greater Victoria area.

Financial Assistance

For information about scholarships, bursaries and loans available to those proposing to attend Victoria College, see inside back cover of Calendar and pages 23 to 43.

Victoria College also has a small loan fund to assist students requiring financial assistance. For further information please consult the Principal.

Work in the Library and in the Cafeteria, at the rate of \$1.00 per hour, will be provided for students of good standing who require financial assistance. Application should be made to the Student Placement Officer at time of registration on a form available for this purpose.

Examinations and Advancement

Examinations

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

2. Applications for special consideration on account of illness or domestic affliction must be submitted in writing to the Registrar not later than two days after the close of the examination period.

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

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

Standing and Credit

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

2. (a) A student taking 9 or more units in the winter session will not receive credit for any course unless he successfully completes 9 units.

(b) A student taking fewer than 9 units in the winter session will receive credit for a course only if, as a result of the final examinations of that session, he passes in all his courses.

3. Courses for which credit has not been obtained must be repeated, or permissible substitutes taken, in the next regular session attended. In the winter session the total of all courses taken may not exceed 18 units.

4. Essays and examinations will be refused a passing mark if they are deficient in English.

5. To be eligible for the Bachelor of Education degree, the candidate must normally have earned:

- (a) a mark of at least 50% in each of the courses comprising the degree programme;
- (b) an average of not less than 60% in the senior courses of each of the majors which constitute the candidate's programme.

6. A student who meets the minimum requirement for passing in a given year but whose standing is nevertheless considered by the Faculty to be unsatisfactory, will be placed on probation for the following year. At the end of his probationary year he may be re-instated or, if there has been insufficient improvement, he will not be permitted to proceed to the next higher year. Generally speaking, probation will follow (a) In the 1st and 2nd years — failure to earn an average of 55% in the 15 units of work (b) In the 3rd and 4th years — failure to earn an average of 60% in the work taken in each of his major subjects.

Supplementals

1. In the winter session a student will be granted the privilege of writing one supplemental in not more than 3 units of courses taken during that session provided that:

- (a) he has obtained during that session at least 12 units of credit;
- (b) he has written the final examination in the subject concerned and has obtained a final grade of at least 40%.

2. No supplementals will be granted to students registered in summer session or Evening Division.

3. The Faculty may, at its discretion, grant supplemental privileges in a further 3 units to a student whose course work during a full winter session is in excess of 15 units.

4. At the discretion of the Faculty, arrangements may be made in certain cases for a further trial period of practice teaching.

5. In all but the Final Year a candidate who has been granted a supplemental may write it once only. If he fails, he must repeat the course or take a permissible substitute. In the Final Year he may write it twice (subject to the limitation in Section 3 under "Standing and Credit").

6. Supplemental examinations, covering the work of both the first and second terms, will be held during August in respect of winter session examinations. Supplemental examination privileges will not be granted to students who fail the laboratory work of science or industrial arts courses.

7. If a student, because of exceptional circumstances, is permitted to postpone a supplemental beyond the first regular supplemental examination period, he will be responsible for the content of the course as currently offered. If the course is discontinued, the supplemental privilege may be cancelled.

Re-Readings

The regulations of the Faculty of Arts and Science respecting re-readings and unsatisfactory standing apply in the Faculty of Education (see page 20).

Programmes at Victoria College

The following may be taken at Victoria College:

(1) The four-year programme leading to the B.Ed. in the elementary teaching field.

(2) The one-year programme for students with full First Year in Arts and Science, or its equivalent, or one or more years' credit in another faculty.

(3) The one-year teacher-training programme for graduates of a faculty other than Education who are interested in elementary or junior high school teaching.

(4) The one-year teacher-training programme for acceptable graduates of faculties other than Education who are planning to teach at the secondary level. In 1963-64 this programme will be limited at Victoria College to graduates with acceptable majors in two of Art, English, French, Geography, History, Mathematics and Music.

(5) The Five-Year Bachelor of Education degree programme (for a limited number of majors).

(6) The programmes for graduates with the Bachelor of Education (Elementary).

PROGRAMMES OF STUDY FOR THE EDUCATION AND TRAINING OF TEACHERS

Practice Teaching Laboratory and Seminar Requirements

All students in Education, except those in the First and Third Years of the Secondary Programme and the regular Third and Fourth in the Elementary Programme, will be assigned to one hour weekly seminar under the direction of a selected Faculty Adviser.

Student participation in school activities, whether it be observation, teaching practice, demonstration lessons, or field trips, is required and will become the basis for discussion in these seminar groups. Laboratory note books are required.

The granting of a degree or teaching certificate is dependent upon satisfactory performance in these laboratory courses. No units are awarded.

First Year students in the regular elementary programme will have their observation and practice teaching on Tuesday mornings. At the conclusion of their final examinations, they will have a block of two weeks of observation and practice teaching.

All other students in the elementary programme, who are taking their "Professional Year," will have their observation and practice teaching for the whole of each Thursday. They will also have a one week practicum in the fall term, a two week practicum in the spring term, and a three week practicum at the end of the session.

Students in the Second Year of the Secondary Programme will have their observation and practice teaching one half day a week throughout the session.

Students in the Fourth Year of the Secondary Programme will have their observation and practice teaching one-half day each week as arranged by the Supervisor of Practice Teaching.

Students of the Fifth Year of the Secondary Programme and of the One-Year Programme for Graduates will have their observation and practice teaching for the whole of one specified day each week. They will also have a one-week practicum in the fall term, a two-week practicum in the spring term, and a three-week practicum at the end of the session.

The Bachelor of Education (ELEMENTARY) Degree Programme:

This is the standard programme designed for the training of elementary school teachers. It consists of a total of 66 units. Students transferring to Education from another faculty or after Grade XIII will require a total of 69 units.

Successful completion of the first two years of this programme fulfills requirements for the interim E.B. Teaching Certificate; successful completion of three years, the interim E.A. Certificate; graduation with the B.Ed. degree, the interim P.C. Certificate. Candidates who complete an appropriate five years of work may qualify for the P.B. Certificate and are referred for a programme to the Director of Teacher Education.

First Year		Units
English 100 (Lit. and Comp.)		3
History 102 or 101		3
Any first year laboratory science such as Biology 105, Botany 105, Chemistry 101 or 102, Geography, 101, Physics 101 or 103, Zoology 105		3
Fine Arts 101, or the first year of a language other than English, or first year Mathematics		3
Education 102		3
Education 197		0
Second Year		Units
Education 297		0
Education 201		1½
Education 202		1½
Education 203 or 204		3
Education 205		1
Education 207		1
Education 209		1
English 200		3
Mathematics 203		3
Third Year		Units
English 300 or 400		3
Education 331 or other approved course in educational psychology		3
Geography 303		3
** 9 units devoted to the major chosen (see pages 99 and 100) or to electives or to a combination of both		9
Fourth Year		Units
Education 400 or 430		3
Education 309 or other approved course		3
** 12 units devoted to the major chosen (see pages 99 and 100) or to electives or to a combination of both		12

** In this block of 21 units in Third and Fourth years the student is expected to complete at least one major. If he chooses a professional major the remaining courses of the 21 unit group should be academic. If his major be academic, the remaining courses should be professional.

The programme above is planned so that students may leave the University or College after the Second Year to teach in schools. The Department of Education may grant an interim teaching certificate to those who complete the first two years successfully, but the certificate will not be permanent until the full Third Year is completed; and the University will, of course, not award a degree until all four years are successfully accomplished. The plan, however, does allow teachers to complete the Third and Fourth years by sununer session attendance or by extra-sessional courses during the winter.

The work of the first two years requires full-time attendance during the day for the normal University winter session.

Students from other faculties may transfer in August to the programmes outlined above, and adequate provision is made for substitution of courses for those prescribed above. However, at least one full year of professional work must be taken on campus during the winter session in the Faculty. All the prescribed professional courses must eventually be completed before the degree will be awarded.

The Bachelor of Education (SECONDARY) Degree Programme (five years):

This is the standard programme designed for the training of secondary school teachers. It consists of a minimum of 78 units. Every student is required either to major in two subjects ordinarily taught in high school or to take an Honours Course in one such subject. In each major, including prerequisite courses, at least 15 units must be taken, 9 of which must be from senior years. An average of 60% at least is required in the senior courses of each of the majors which constitute a candidate's

programme. A candidate who elects to take an Honours Course in one teaching field must be prepared to complete 84 units for the degree.

In the regular 78 (or 84) unit programme, a maximum of 24 units of Education is permitted. The professional courses listed for the fifth year may not be taken in earlier years.

First Year	Units
English 100 (Lit. and Comp.)	3
History 102 or History 101	3
Two of Mathematics 120, first year science, first year language other than English	6
Necessary prerequisite in major subject, or elective	3

Second Year	Units
Education 200	3
English 200	3
Nine or 12 units in Arts, Science, Agriculture, Commerce, Home Economics or Physical Education to complete any omitted courses of the First Year and to complete prerequisites or to commence work in teaching majors (see pages 95-99)	9 or 12
Education 298	0

Third Year	Units
Education 301	3
Courses required for majors or Honours (see pages 95-99)	15

Fourth Year	Units
English 300 or 400	3
Education 404 relating to one teaching major	1½
Education 435	1½
Majors, combined majors, or Honours (see pages 95-99)	9 or 12
Education 498	0

Fifth Year	Units
Education 332	3
Education 400	3
Education 404 relating to the other teaching major	1½
(Every student is strongly urged to audit an additional course in Education 404.)	
Education 410	1½
Two of Education 390, 401, 407, 408, 411, 412, 414, 415, 416, 417, 428, 460, 461, 470, 490. (See note below)	6
Education 499	0

Note: The student planning to proceed to a Master's degree in Education following completion of his undergraduate degree work is advised to elect one of the following from the above list according to his intended field of specialization:

- Education 401 (for Educational Psychology)
- Education 407 (for Special Education)
- Education 411 (for Guidance and Counselling)
- Education 412 (for Adult Education)
- Education 460 (for Administration)
- Education 461 (for Curriculum Instruction)
- Education 470 (for Educational Sociology)

OTHER PROGRAMMES - Elementary Field

1. One-Year (Transfer) Programme (Elementary):

This programme is for those who have completed at least full First Year in Arts and Science or its equivalent. Students enrolling will be registered in Second, Third or Fourth Year as appropriate.

	Units
Education 297	0
Education 102	3
Education 201	1½
Education 202	1½
Education 203 or 204	3
Education 205	1
Education 207	1
Education 209	1
English 200 or 300 or 400 or approved Senior Education course	3
Mathematics 203	3

2. **Two-Year Programme for Teachers Holding a Normal School Diploma with the Elementary Basic Teaching Certificate and Proceeding to the B.Ed. Degree (Elementary Field):**

Third Year	Units
English 200 (if equivalent not taken previously)	3
One of English 301, first year language other than English, Mathematics 120, Fine Arts 101, Music 120, Geography 303	3
A first year laboratory science. If this has been previously taken, an elective course may be substituted	3
Education 331 or approved alternative	3
Major or electives	6

Fourth Year	
English 300	3
Education 400 or 430	3
Education 309 or approved alternative	3
Major or electives	9

3. **Programme in Elementary Education for graduates of other faculties.**

Students with a Bachelor's degree from another faculty who desire to become elementary teachers will take the following programme: Education 102, 201, 202, 203 (or 204), 205, 207, 209, Mathematics 203, and an approved senior Education course.

4. **Programmes for graduates with the Bachelor of Education (Elementary).**

Graduates of the four year degree programme in the Elementary Field may fulfill requirements for Professional Basic certification by completing an appropriate fifth year of study under guidance of the Director of Teacher Education.

At the discretion of the Director, permission may be granted to include in the fifth year programme a second year of a foreign language to meet prerequisite requirements for a Master's degree.

OTHER PROGRAMMES - Secondary Field

1. **One-Year Programme (Secondary) for Graduates:**

Although the requirements for the Interim P.B. Certificate are satisfied by this programme, a further 6 units taken subsequently to the One-Year Programme for Graduates are needed to satisfy the requirements for the permanent Professional Basic Certificate. These 6 units must be in Education unless otherwise specified by the Committee on Admissions, Standing and Courses.

	Units
Education 301	3
Education 400	3
Education 404	3
Education 410	1½
Education 435	1½
One of Education 332, 390, 401, 407, 408, 411, 412, 414, 415, 416, 417, 428, 460, 461, 170, 490	3
Education 199	0

2. **B.Ed. Degree for Graduates:**

This degree has been discontinued and no further applications for registration will be accepted. Candidates who are already registered for this degree will be allowed to complete their programme, but they must do so before October, 1964.

3. **Three-Year Programme for Teachers Holding the Elementary Basic Teaching Certificate:**

Third Year (see Note 1 below)	Units
Courses required for majors or honours or prerequisites thereto	18
It is assumed that the candidates will already have completed in the first two years: English 200; two of Mathematics 120; a first year Science; a first year language other than English; and History 101 or 102.	
Fourth and Fifth Years (see Note 1 below)	Units
English 300 or 400 (see Note 2 below)	3
Courses required for majors in two teaching subjects	21
One of Education 332, 400, 430, 470, 519, or 523	3
Education 404 (corresponding to each of the teaching majors). (See notes 3 and 4 below)	3-6
TOTAL	48-51

NOTES:

1. Where the student's programme permits electives, these should ordinarily be chosen from the academic subjects. Only three units of Education courses other than those which are required may be counted for degree credit. Courses relating to teaching in the elementary school will not be accepted for credit. Any one of the following courses will carry credit: Education 309, 332, 390, 400, 401, 407, 408, 411, 412, 414, 415, 416, 417, 428, 430, 460, 461, 470, 490.

The student planning to proceed to a Master's degree in Education following completion of his undergraduate degree work is advised to elect one of the following from the above list according to his intended field of specialization:

- Education 400 or 430 (for History and Philosophy)
- Education 401 (for Educational Psychology)
- Education 407 (for Special Education)
- Education 411 (for Guidance and Counselling)
- Education 412 (for Adult Education)
- Education 460 (for Administration)
- Education 461 (for Curriculum and Instruction)
- Education 470 (for Educational Sociology)

2. All English majors must complete English 400 instead of English 300.
3. Where appropriate to the student's teaching major, Education 305, 307 or 490 may be substituted for the Education 404 course in the corresponding subject matter field.
4. When Education 404 is taken by a student in attendance at a winter session, Education 498 will be required.

UNDERGRADUATE COURSES IN EDUCATION

102. (3) **Principles of Teaching.**—The bases of the learning and teaching processes; the nature, aims and purposes of Education; the application of educational principles in preparing and presenting lessons, in developing good questioning techniques, in the use of teaching aids and in maintaining discipline. Prerequisite to all further courses in educational psychology for elementary teachers.

Text-books: **Manual of School Law; Laycock, Teaching and Learning.** (3-0; 3-0)

*150. (3) Introduction to Industrial Arts.

197. (0) Seminar and Practice Teaching.—One hour per week seminar. Tuesday mornings, observation and participation in elementary schools. Demonstration lessons and field trips as arranged. Individual tuition from faculty adviser. Compulsory two-week post-sessional practicum.

200. (3) Introduction to Secondary Education.—An introductory treatment of the nature, aims and purposes of secondary education; the characteristics of good teaching and good teachers; the preparation of various types of lessons; techniques of questioning; provision for individual differences; testing; reporting to parents; classroom organization; maintenance of discipline; audio-visual techniques; speech education.

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

201. (1½) Curriculum and Instruction in Elementary Science.—A study of (a) the curriculum organization in science and health for the elementary and junior secondary grades; (b) techniques of instruction in science for these grades.

Text-book: Craig, *Science for the Elementary School Teacher*. (1½-0; 1½-0)

202. (1½) Curriculum and Instruction in Elementary Social Studies.—A study of (a) curriculum organization in social studies for elementary and junior high grades; (b) techniques of instruction in social studies for these grades.

Text-books: Dent's *Canadian School Atlas*; Hardwick and Midgley, *Understanding Maps*; Wonders, *Looking at Maps*. (1½-0; 1½-0)

203. (3) Curriculum and Instruction in the Language Arts, and Integrated Subjects of the Primary Grades.—A study of (a) the curriculum organization; (b) techniques of instruction in these grades.

Text-books: Bowers, *Beginning in the Language Arts*; Program of Studies: *Primary Grades*; Gerrard and McInnes, *Improving Your Teaching of Reading Skills*; MacLean and Bollert, *My First Printing Book*. (3-0; 3-0)

204. (3) Curriculum and Instruction in the Language Arts.—Intermediate grade emphasis. A study of (a) the curriculum organization in the language arts particularly in the intermediate and junior secondary grades; (b) techniques of instruction in these subjects and grades.

Text-books: Hall, *Growth Through the Language Arts, Grades 4, 5 and 6*, revised; Program of Studies: *Intermediate Grades*; Gerrard and McInnes, *Improving Your Teaching of Reading Skills*; MacLean and Bollert, *My First Printing Book*. (3-0; 3-0)

205. (1) Curriculum and Instruction in Art.—A study of (a) the curriculum organization in art for the elementary and junior secondary grades; (b) techniques of instruction in art for these grades. (1½-0; 1½-0)

207. (1) Curriculum and Instruction in Music.—A study of (a) the curriculum organization in music for the elementary and junior secondary grades; (b) techniques of instruction in music for these grades. (1-0; 1-0)

Text-book: Pierce, *Teaching Music in the Elementary School*, 1959.

209. (1) Curriculum and Instruction in Physical Education.—A study of (a) the curriculum organization in physical education for the elementary and junior secondary grades; (b) techniques of instruction in physical education for these grades.

Text-books: (For women) Neilsen and Hagen, *Physical Education for Elementary Schools*; (For men) Dauer, Victor P., *Fitness for Elementary School Children Through Physical Education*, 1962. (1½-0; 1½-0)

*230. (3) Electricity in Industrial Arts.

*252. (3) Mechanical Drawing I.

297. (0) Seminar and Practice Teaching.—One hour per week seminar. Full day Thursdays, observation and participation in elementary schools. One week practicum in fall term, two week practicum in spring term, three week post-sessional

* Not offered at Victoria College 1963-64.

practicum. Demonstration lessons and field trips as arranged. Individual tuition from faculty adviser. (1-5; 1-5)

298. (0) **Seminar and Practice Teaching.**—One hour per week seminar. Half day each week observation and participation in junior high schools (Thursday afternoon). Demonstration lessons and field trips as arranged. Individual tuition from faculty adviser. (1-3; 1-3)

301. (3) **Educational Psychology.**—The learner; the learning process; adjustment of the learning situation to individual differences; the adjustment process; mental health.

Text-book: Klausmeier, H. J., **Learning and Human Abilities.** (3-0; 3-0)

305. (3) **Art Education.**—A study of the growth and development of art education; discussion and use of various art media; the function and purpose of art in school and society; practical studio activities; modern methods and curricula in art education. Prerequisite: Education 205 (or equivalent).

Text-book: To be announced. (1-2; 1-2)

*306. (3) **Health Education.**

307. (3) **Music Education.**—A study of modern methods, materials, objectives, and philosophy pertaining to the teaching of music in elementary and secondary schools. Prerequisite: Education 207 or equivalent.

Text-book: Ulrich, H., **Music: A Design for Listening.** (3-0; 3-0)

*308. (3) **Physical Education.**

309. (3) **General Science for Elementary and Junior Secondary School Teachers.**—General science as a systematic study of our environment and man's relation to it will cover such topics as living things, matter, energy, earth science, and the universe. Techniques of science, the improvisation and acquisition of necessary equipment, utilization of community resources. The course is intended to provide teachers with a broad background for teaching general science.

Text-book: Cable, Getchell, Kadesch and Poppy, **The Physical Sciences;** Buffaloe, **Principles of Biology.** (3-2; 3-2)

331. (3) **Psychology of Childhood.**—Mental, social, emotional and physical characteristics of pre-school and elementary school pupils; their interests and problems, emphasis upon classroom implications.

Text-book: Crow and Crow, **Child Development and Adjustment.** (3-0; 3-0)

332. (3) **Psychology of Adolescence.**—The physiological, psychological, social and educational aspects of adolescence. Review of research.

Text-book: Wattenberg, **Adolescent Years.** (3-0; 3-0)

*333. (3) **Special Problems in Pre-School Education.**

*336. (3) **Modern Theories of Pre-School Education.**

*350. (3) **Technology of Woodworking I.**

*351. (3) **Technology of Metalworking I.**

*352. (3) **Mechanical Drawing II.**

*353. (3) **Design in Industrial Arts.**

*354. (3) **Oxy-Acetylene and Arc Welding.**

*365. (3) **Oral French for Elementary Teachers.**

*390. (3) **Librarianship: Sources of Information.**

400. (3) **Survey of Educational Thought.**—This is an introductory course in which consideration is given to both the historical and philosophical foundations of education and to the practical bearings of theory upon curriculum content and class-

* Not offered at Victoria College 1963-64.

room practice in our schools. Reading assignments, topical reports and term papers form an important part of the course.

Text-books: Curtis and Boulwood, *A Short History of Educational Ideas*; Weber, *Basic Philosophies of Education*. (3-0; 3-0)

*401. (3) **Theoretical Bases of Educational Psychology.**

404. (3) **Curriculum and Instruction in the Specific Secondary School Subjects.**—Each course in this area includes, for the particular subject concerned, a consideration of the objectives, the scope and content of the curriculum, the learning processes applied to the particular subject, the methods of presentation, and the materials of instruction. Consideration will also be given to evaluation of pupil progress, and diagnosis of and remedy for individual and group difficulties.

Students are required to take Education 404 courses corresponding to each of their two teaching majors.

The following Education 404 courses are offered in 1963-64 at Victoria College: English, French, History and Social Studies, Geography and Social Studies, Mathematics.

Text-books: To be announced. (4-0; 4-0)

405. (3) **Curriculum and Instruction in the Kindergarten and Primary Grades—Advanced.**—Current research findings; trends and problems dealing with personality development, classroom management, and the programme of instruction in the kindergarten and grades one, two, and three.

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

*406. (3) **Curriculum and Instruction in the Intermediate Grades—Advanced.**

407. (3) **Introduction to the Study of Exceptional Children.**—A course covering all groups of exceptional children—definitions, diagnosis, classification and treatment.

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

408. (3) **Teaching the Mentally Superior.**—The characteristics, needs and abilities of mentally superior and specially talented children; identification, classification, educational research; planning suitable educational programmes at both elementary and secondary levels; methods of teaching.

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

410. (1½) **The Organization and Administration of B.C. Schools.**—Functions and duties of trustees, superintendents, principals, supervisors, and teachers in the modern school as based on the Manual of School Law and the Administrative Bulletins. The administration and operation of the individual school. Classroom organization and control. Co-curricular activities. Working relations among the Department of Education, trustees, principals, teachers and parents. Consideration of the Reports of Commissions on Education.

Text-books: To be announced. (1½-0; 1½-0)

411. (3) **Guidance and Counselling Services in Schools.**—An introduction to guidance principles and practices.

Text-books: Crow and Crow, *Introduction to Guidance*; Havighurst, *Development Tasks and Education*. (3-0; 3-0)

*112. (3) **Introduction to Adult Education.**

*114. (3) **Audio-Visual Education.**

415. (3) **Developmental Reading.**—The problems of teaching reading, grades I-XII; the nature and psychology of reading; the basic skills and abilities; evaluating reading, remedial reading.

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

*116. (3) **Speech Education.**

*117. (3) **Educating the Slow Learner and the Emotionally Handicapped.**

* Not offered at Victoria College 1963-64.

- *419. (3) **Introduction to Speech Correction.**
- *420. (3) **Educating the Mentally Retarded.**
- *421. (3) **Teaching the Partially Seeing Child.**
- *422. (1½) **Phonetics.**
- *423. (3) **Problems of the Deaf and Hard-of-Hearing.**
- *424. (3) **Principles of Speech Correction.**
- *428. (3) **Mental Health in the School.**
- *430. (3) **History of Education.**

435. (1½) **Introduction to Evaluation.**—A study of the construction, use and interpretation of educational achievement tests, including the following elementary statistics: measures of central tendency, measures of variability, standard scores, and simple methods of correlation.

Text-book: Ahmann and Glock, *Evaluating Pupil Growth.* (1½-0; 1½-0)

- *450. (3) **Technology of Woodworking II (Cabinet Making).**
- *451. (3) **Technology of Metalworking II.**
- *452. (3) **Technology of Woodworking III (Building Construction).**
- *453. (3) **Auto Mechanics.**
- *460. (3) **An Introduction to School Administration.**

461. (3) **Educational Diagnosis and Remedial Instruction.**—Interpretation of informal and standardized test scores in educational diagnosis; estimates of actual and optimum levels of individual achievement; individual differences as factors, affecting performance; methods of encouraging the optimum achievement of individuals; methods and practice materials for remedial teaching. Students intending to take both Education 461 and Education 415 should take Education 415 either prior to or concurrently with Education 461.

Text-book: Brueckner and Bond, *The Diagnosis and Treatment of Learning Difficulties.* (3-0; 3-0)

- *470. (3) **Educational Sociology.**
- *490. (3) **The Library in the School.**
- *491. (3) **The Acquisition and Organization of Library Materials.**

498. (0) **Seminar and Practice Teaching.**—A one-hour seminar each week. Half day observation and teaching practice in the secondary schools each week. Demonstrations to be arranged. Individual conferences with faculty adviser. A two-week post-sessional practicum may be arranged. (1-3; 1-3)

499. (0) **Seminar and Practice Teaching.**—A one-hour seminar each week. A full day of observation and teaching practice in the secondary schools each week. A one-week practicum in the fall term, two-week practicum in the spring term, and a three-week post-sessional practicum. Demonstrations to be arranged. Individual conferences with faculty adviser. (1-5; 1-5)

* Not offered at Victoria College 1963-64.

TEACHING MAJORS FOR SECONDARY TEACHERS

Candidates must major in two, or complete an Honours equivalent in one, of the following subject areas. An average of 60% at least is required in the senior courses of each of the majors which constitute a candidate's programme. Arrangements for an Honours Course in a teaching subject are indicated on page 99. Courses carrying fewer than 3 units of credit are indicated by a smaller number in brackets

following the course number, e.g., Horticulture 200 (1½). Only with the prior permission of the Director of Teacher Education may exceptions be granted in any of the following requirements for majors.

1. Agriculture

First and Second Years: Mathematics 120, Chemistry 101 or 102, Physics 101, Botany 105, Zoology 105, Agriculture 100 (1). Geology 200 is recommended. It may be deferred until Third or Fourth Year.

Senior Years: Animal Science 200 (1½), Horticulture 200 (1½), Soil Science 200 (1½), Agricultural Mechanics 200 (1½), Dairying 200 (1½), Poultry Science 200 (1½), Agricultural Economics 200 (1½), Agriculture 300 (1), Agronomy 200 (1½).

Note: The requirements of Agriculture 300 are completed by participation in the one-week field trip just prior to the registration week of the Fourth or Fifth Year.

2. Art

First and Second Years: Fine Arts 101, 300.

Senior Years: Fine Arts 301, 302 and one of the following groups of two: Fine Arts 401, 402; Fine Arts 303, 403; Fine Arts 305, 405; Fine Arts 307, 407.

3. Art (Double Major)

First and Second Years: Fine Arts 101, 300, 301, 302.

Senior Years: Fine Arts 401, 402, 404, 425, and one of the following groups of three: Fine Arts 303, 403, 413; Fine Arts 305, 405, 415; Fine Arts 307, 407, 417.

4. Biological Sciences

First and Second Years: Mathematics 120, Botany 105, Chemistry 101 or 102, Geology 200 (if necessary Geology 200 may be deferred to the Third or Fourth Year), Physics 101, Zoology 105.

Senior Years: One of Botany 330 (2) or 331, Zoology 303, Biology 400, Zoology 418; one of Botany 205, Zoology 202; one of Botany 425, Biology 320, Zoology 416, Biology 332-3, Zoology 301, Zoology 401.

Note: Only one of English 200 or 300 need be taken.

5. Commerce (Secretarial Major)

First and Second Years: Commerce 90, 101.

Senior Years: Commerce 151, 201, 376, 391.

6. Commerce (Business Major)

First and Second Years: Commerce 90, 151.

Senior Years: Economics 200, Commerce 331, 376, 391.

7. Commerce (Double Major)

First and Second Years: Commerce 90, 101, 151, Economics 200.

Senior Years: Commerce 201, 252 or 363, 261, 331, 376, 391.

8. Chemistry

First and Second Years: Mathematics 120, and 202, Physics 101, Biology 105 (or Botany 105 and Zoology 105), Chemistry 101 or 102 and 200 or 205, Geology 200 (if necessary Geology 200 may be deferred to the Third or Fourth Year).

Senior Years: Chemistry 300, 310 and three additional units chosen from Third or Fourth Year Chemistry. Chemistry 304 is recommended.

Note: Only one of English 200 or 300 need be taken.

9. English

First and Second Years: English 100 (Lit. and Comp.), English 200.

Senior Years: English 400 (in place of English 300), one of English 411, 412,

413; one of English 406, 424, 426, 430, 431, 432; one of English 427, 428, 429, 433, 434, 435, 439.

Note: A language (other than English) at the 200 level is required.

10. French

First and Second Years: French 120, 220, 223.

Senior Years: 9 units in French courses numbered 300 or higher including 302.

Note: Election of one course in Latin, Greek, another modern language, or linguistics, is recommended.

11. Geography

First and Second Years: History 101 or 200, and 102, Geography 101 and 201.

Senior Years: (a) one of Geography 301, 302, 304, 306, 307, 310, Geology 412; (b) one of Geography 404, 406, 408, 409, 410; (c) three additional units from (a) or (b) or Geography 445 with special permission.

Election of an additional course in History, Anthropology, Political Science, Sociology, Economics or Commerce 331 is recommended. If the second major is History, the programme outlined in item 12 below must be followed.

12. Geography and History (Combined Majors)

First and Second Years: History 101 or 200, and 102, Geography 101 and 201, and one of Anthropology 200, Economics 200, Political Science 200, Sociology 200.

Note: One of the above may be postponed until Third Year.

Senior Years: (a) one of Geography 301, 302, 304, 306, 307, 310 or Geology 412; (b) one of Geography 404, 406, 408, 409 or 410; (c) three additional units from (a) or (b) or Geography 445 with special permission; (d) one of History 201, 212, or 310; (e) one of Classical Studies 331 or History 304 or 313; (f) another senior course in History (or a course acceptable for credit in History if the student has completed 12 units selected from the regular offerings of the History Department). Additional required course: three units of Anthropology, Economics, International Studies, Political Science, Sociology or Commerce 331.

13. German

For students wishing to major in German and a second language other than English, French is strongly recommended.

First and Second Years: German 120 (or 110 or 130), German 200, German 223.

Senior Years: German 300, 302, plus one additional senior German course.

Note: Election of an additional course in German is strongly advised and election of one course in Latin, Greek, another modern language, or linguistics, is recommended.

14. History

First and Second Years: History 102 and one of 101 or 200.

Senior Years: History 201 or 212 or 310; History 304 or 313 or Classical Studies 331; another History course from Third or Fourth Year (or a course acceptable for credit in History, if the student has completed 12 units selected from the regular offerings of the History Department).

Additional required course: Geography 303.

Note: Election of an additional course in Geography, Anthropology, Political Science, Sociology, Economics or Commerce 331 is recommended. If the second major is Geography the programme outlined in item 12 above must be followed.

15. Home Economics

First and Second Years: Home Economics 101 (1½), 102 (1½), 104 (1½), 105, 201 (1½).

Senior Years: Home Economics 300 and 310 (1½) and 1½ to 4½ units chosen from Home Economics 401, 403 (1½), 421.

16. Industrial Arts (Double Major)

All students who plan to enter Industrial Arts should arrange an interview with the Co-ordinator of Teacher Education in Industrial Arts at the B.C. Vocational School, 3650 Willingdon Avenue, Burnaby 2, B.C. Candidates who live in the Victoria area may arrange to see Mr. T. Quayle or Mr. Victor E. Rickard at the Department of Education, Victoria, B.C.

On completion of a successful first year, as listed below, candidates for further progress are screened by a Selection Committee and approval is based upon academic achievement, technical aptitude, maturity and personal suitability.

First Year: English 100, History 102 or 101, Physics 101 or 103, or Chemistry 101 or 102, Mathematics 120, and an elective.

For subsequent years, see University of British Columbia Calendar.

17. Latin

First and Second Years: Latin 120 (or 110), 220 (or 210).

Senior Years: Latin 303, 310 (1½) and two of 304, 405, 406.

Note: Election of Classical Studies 331 is strongly advised and Greek 100 is recommended.

18. Librarianship

English 301; Education 390, 490, 491; and prerequisites to be determined in consultation with the Director.

19. Mathematics

First and Second Years: Mathematics 120 and 202.

Senior Years: Mathematics 306, 308 or 310, and 412 (or 300 if needed for a Chemistry or Physics major).

20. Music

Prerequisites: Fine Arts 101 or Music 120 and previous music training satisfactory to the Faculty of Education.

First and Second Years: Music 101, 201.

Senior Years: Music 302, 303, 401 and one music elective.

21. Physical Education

First and Second Years: Physical Education 105, 205, 262 (1½).

Senior Years: Physical Education 305, 460 (1½), 260 (1½), or 360 (1½), 361 (1½), or 462 (1½).

22. Physics

First and Second Years: Mathematics 120 and 202, Biology 105, (or Botany 105 and Zoology 105), Chemistry 101 or 102, Physics 101 and 211, Geology 200 (if necessary Geology 200 may be deferred to the Third or Fourth Year).

Senior Years: Physics 322, 312, 413. Note: These courses are numbered 300, 308, 400 respectively at U.B.C.

Note: Only one of English 200 or 300 need be taken.

23. Russian

First and Second Years: Russian 100, 200 (or 203). (For students wishing to major in Russian and a second language other than English, French is strongly recommended.)

Senior Years: Nine units from Russian language courses numbered 300 or higher. Election of Slavonic Studies 308 is recommended as an additional course.

24. Spanish

For students wishing to major in Spanish and a second language other than English, French is strongly recommended.

First and Second Years: Spanish 120 (or 110), 201.

Senior Years: Spanish 300 (formerly Spanish 304) and two other Spanish courses numbered above 300.

Note: Election of an additional Spanish course is strongly advised, and election of a course in one of Latin, Greek, another modern language, or linguistics, is recommended.

25. Theatre

First and Second Years: English 100 (Lit. and Comp.), Theatre 200 (now an Introduction to Theatre) concurrently with English 200.

Senior Years: Required—Theatre 400 and one of Theatre 300, 310, 320 (chosen in consultation with the Department of Theatre); and one of Theatre 301, 410, English 412, 413.

26. Zoology and Botany (Double major)

First and Second Years: Botany 105, Chemistry 101 or 102, Mathematics 120, Physics 101, Zoology 105, Geology 200 (if necessary Geology 200 may be deferred to the Third or Fourth Year).

Senior Years: 9 units in Botany or Biology acceptable for a Botany major and 9 units in Zoology or Biology acceptable for a Zoology major, to include Botany 205, Zoology 202, Biology 332-333; at least one of Biology 320, Botany 425, Zoology 401, Zoology 416; at least one of Botany 330 (2) or 331, Zoology 303, Zoology 418, Biology 400; one other course in Zoology, Botany or Biology. An additional course in Chemistry, Physics or Mathematics is strongly recommended.

Note: Only one of English 200, or 300 need be taken.

Honours Courses

Students who have the required standing at the end of the second year of the Bachelor of Education programme may, after consultation with the Director of Teacher Education, embark upon an honours programme in a subject ordinarily taught in the secondary schools of British Columbia. Such specialization in a single subject requires completion of 84 units of work in the five years of the Bachelor of Education programme. Further details will be found under the subject heading in the section dealing with courses in Arts and Science, pages 58 to 80.

PROFESSIONAL AND ACADEMIC MAJORS FOR ELEMENTARY TEACHERS

In Third and Fourth years, students have 21 units in which they are expected to complete either one professional major together with academic electives, or an academic major, as approved by the Director, together with professional electives. Successful completion of the Bachelor of Education programme requires an average of 60% in the senior courses constituting the major.

PROFESSIONAL MAJORS

These are majors in which the emphasis is upon the professional preparation of a teacher in a specialized field. While many of the courses are academic they are, as such, part of a design to prepare the student to be a teacher.

Observation or practice teaching or some other form of practical work related to the field of the major may, at the discretion of the faculty, be required.

Art Education

1st year

Fine Arts 101.

3rd year

F.A. 300 and any one of the following: F.A. 303, F.A. 305, F.A. 307, F.A. 401.

4th year

Ed. 305 (in place of Ed. 309), F.A. 302 and any **one** of the following:
F.A. 402, F.A. 403, F.A. 405, F.A. 407.

Handicapped Children

3rd year

Ed. 407 and 331 (or other approved psychology course) and 3 units of
Education 306, 414, 415, 417, 419, 420, 421, 422, 423, 424, 461, 462.

4th year

2 more of the above electives. (Specialization in a particular area on the
advice of the Faculty).

Intermediate Education

2nd year

Ed. 204 preferred but not required.

3rd and 4th years

Ed. 415, 461 and 6 units of Ed. 305, 306, 307, 308, 365, 406, 407, 408, 411,
414, 416, 460, 462, Theatre 301, Eng. 301, Math. 303. A student may not
elect more than 3 units of Education 306 and 308 in this major.

Librarianship

3rd year

Eng. 301, Ed. 390.

4th year

Ed. 490, Ed. 491.

Music Education

1st year

Music 101.

3rd and 4th years

Music 201, Music 120 or F.A. 101 in place of Ed. 331, Music 302, Music
303, Ed. 307 in place of Ed. 309, Music 401.

Pre-school Education

3rd and 4th years

Ed. 333, 336, and two of Ed. 305, 306, 307, 414, 415, 417, 428.

Physical Education

15 units chosen from P.E. 105, 205, 305, 262, 260 or 360, 460, 462 or 361.

Primary Education

2nd year

Ed. 203 preferred but not required.

3rd and 4th years

Ed. 405, Eng. 301. **Two** of Ed. 305, 306, 307, 308, 407, 408, 414, 415, 416,
461, 462, Theatre 301. A student may not elect more than 3 units of Ed.
306, 308.

Science Education

Botany 105; Zoology 105; one first year Physics or Chemistry course; Zoology
416 or Geology 200 or other approved Science course; Education 309; Education 409.

ACADEMIC MAJORS

A student may choose to complete an academic major in Third and Fourth Years. By consultation with the department concerned, the student will find this is possible in certain fields such as English, Geography, History and Mathematics. If First and Second Year prerequisites prevent completion of an academic major, the student may choose a professional major and elect a group of academic courses for the remainder of the 21 units. For academic major requirements consult the Arts and Science section of the Calendar. Any departure from these requirements must be authorized by the Director.

COURSES LEADING TO THE DEGREE OF B.A.Sc. (APPLIED SCIENCE)

(Four-year course, for which the prerequisite year in Arts and Science may be taken at Victoria College).

The degree of Bachelor of Applied Science is granted on completion of the work in one of the courses given below:

1. Agricultural Engineering.
2. Chemical Engineering.
3. Civil Engineering.
4. Electrical Engineering.
5. Forest Engineering.
6. Geological Engineering.
7. Mechanical Engineering.
8. Metallurgical Engineering.
9. Mining Engineering.
10. Engineering Physics.

Admission

For admission to courses in Engineering, a student must have completed the First Year in Arts and Science or its equivalent at an approved university or by Senior Matriculation.

Required subjects are:

English 100 (Lit. and Comp.) Chemistry 102
Mathematics 120 Physics 101
Language: one of the following—Latin 110 or 120, French 110 or 120, German 90 or 110 or 120 or 130, Russian 100.

The passing grade for entrance to courses in Engineering is 60 per cent. in Mathematics, Chemistry and Physics, and 50 per cent. in other subjects.

Candidates who expect to complete the requisite entrance standing through University or Victoria College or Senior Matriculation supplemental examinations, held in August, may apply for admission and their applications will be considered subject to the results of these examinations.

No student with deficient standing will be admitted to the First Year of Applied Science.

Students intending to enter Applied Science are advised to present Chemistry 91, Mathematics 91, and Physics 91 for High School Graduation.

SCHOOL OF ARCHITECTURE

COURSE LEADING TO THE DEGREE OF

B.Arch. (Architecture)

The course extends over a period of three years, following at least three years of successful study in the Faculty of Arts and Science, in another School of Architecture, or in their equivalent at any approved university. Candidates are strongly urged to obtain their Bachelor of Arts or their Bachelor of Science degree before entering this School. The degree granted upon satisfactory completion of the course is Bachelor of Architecture (B.Arch.).

Admission

A candidate seeking admission to the School of Architecture must apply to the Registrar not later than August 1st. A 200-word statement giving the reasons why he has chosen to follow this professional course should accompany the application. Students from other institutions must submit with their application transcripts of records covering their full academic background. Before application, a candidate should arrange at as early a date as possible, or may be required to arrange, for an interview with the Director of the School or some other representative of the School acting on his behalf.

The candidate's admission will be considered upon evidence of the following:

1. (a) Successful completion of three years of the course leading to the degree of Bachelor of Arts or the Bachelor of Science in the University of British Columbia

with either (a) an average of at least 65% in the examinations of the Third Year in a full course, or (b) an average of at least 65% in the combined results of the examinations in the Second and Third Years;

or

(b) Successful completion of the equivalent of (a) at an approved university. It is suggested that candidates in this category should take at least one of their pre-architecture years at the University of British Columbia;

or

(c) Graduation in an approved course of studies at the University of British Columbia or at another approved university, with a graduation standing of at least 60%. A student lacking the required prerequisites for entry into the School may be permitted in special cases to take a limited number of these courses concurrently with his studies in Architecture;

or

(d) Successful completion of a minimum of two full academic years at another School of Architecture, subject to the candidate having the required prerequisites (see Advanced Standing).

2. Passed the following subjects or their equivalent, which are prerequisite to entry into the School of Architecture.

English 100 (Lit. and Comp.)

English 200

Mathematics 120

Mathematics 202 or 220 and 221*

*Honours only.

Fine Arts 225 or Arch. 260

Fine Arts 228

Physics 101

Physics 200 or 211

Physics 326

Note: A student who is preparing himself primarily for entrance into the School of Architecture is advised to choose his elective subjects in fields which will give him (a) greater understanding of man and his environment; (b) knowledge of the physical world; (c) appreciation and understanding of the Fine Arts. The School will be glad to assist the student with his choice of subjects. Students are, however, warned that should they wish to obtain a B.A. or B.Sc. degree they must follow the requirements for these degrees as described in the Calendar.

3. Evidence of drawing ability; since many of his studies and means of communication depend on descriptive drawing, painting and architectural drafting, it is essential that the student acquire an elementary ability in these techniques before entering the School. The student will therefore be required to show evidence of such. Courses of instruction are usually available through extension departments of universities and technical or art schools. At the University, the School of Architecture offers a non-credit course, through the Extension Department for those students who wish to take it, and for those students, who, in the opinion of the School, require such instruction. Prior to registration and beginning the day after Labour Day, the School also offers a two-week course in sketching. This course is recommended to all pre-Architecture students as a non-credit course before the beginning of their Second and Third years.

Advanced Standing

Undergraduates from other Schools of Architecture and graduates in Engineering may, upon application, be granted such standing as the School determines and permitted to take a limited number of prerequisite courses concurrently.

COURSE LEADING TO THE DEGREE OF B.S.N. (Nursing)

(Four-year course, for which the prerequisite year in Arts and Science may be taken at Victoria College)

All inquiries relating to admission to the School of Nursing should be addressed to The Director, School of Nursing, University of British Columbia, Vancouver, B.C.

Since facilities available for nursing experience and other required field work may limit the number of students who can be admitted, applications should be submitted early, preferably before August 1st. Requests for application forms, addressed to the Director of the School, should specify the particular programme in which the applicant is interested.

Admission

Requirements as follows:

- (a) Completion of First Year in Arts and Science at the University of British Columbia, or Victoria College, or its equivalent at an approved university or by Senior Matriculation. Required subjects are:

English 100 (Lit. and Comp.).

Chemistry 101 or 102

Mathematics 120

Zoology 105 or Biology 100 (Senior Matriculation) and one other course which may be:

Economics, Geography, History, Philosophy, Psychology, a foreign language, or another approved elective.

Students must obtain a final mark of at least 60 per cent. in either Chemistry or Zoology (or Biology) or, in lieu of this an overall average of at least 60 per cent. In other subjects at least 50 per cent. is required.

- (b) Good Health.

- (c) Personal suitability.

- (d) Courses in Physical Education are required in First Year Arts and Science and in First Year Nursing.

Application for admission, on forms obtained from the School of Nursing, should be submitted not later than August 15th. Students are advised to establish contact with the School as early as possible, e.g., when they register for First Year Arts and Science or during their Senior Matriculation year.

COURSE LEADING TO THE DEGREE OF B.S.F.

(Bachelor of Science in Forestry)

The degree of Bachelor of Science in Forestry is granted on the completion of four years' work in the Faculty of Forestry.

The courses in Forestry provide a strong, well-rounded professional forestry training and at the same time give the student, through his choice of electives, an opportunity to supplement his knowledge of allied sciences, as a background toward further specialized training. This objective is attained by requiring the student to take during each academic year a basic core of essential subjects and a certain number of other courses which are elective. The choice of the student's electives is governed by the particular phase of forestry in which he is interested. The main phases of technical forestry or allied fields are: Forest Management, Forest Business Administration, Forest Harvesting, Forest Products and Wood Technology, Forest Pathology, Forest Entomology and Wildlife Management.

Admission

For admission to Forestry, a student shall have completed the First Year in Arts and Science at the University of British Columbia or Victoria College, or Grade XIII (B.C.), or the equivalent.

Students who plan to enter Forestry should register for the following courses in First Year Arts and Science or the equivalent in Grade XIII.

Botany 105 (or Physics 101).

Chemistry 101 or 102.

English 100 (Lit. and Comp.).

Mathematics 120.

One additional course.

A student who does not have credit for either Botany 105 or Physics 101 may be admitted to First Year Forestry but must consult the Dean before registering.

Students intending to enter Forestry are advised to present Chemistry 91, Mathematics 91, and Physics 91 for High School Graduation (University Programme).

COURSES LEADING TO THE DEGREE OF B.S.A. (Bachelor of Science in Agriculture)

The degree of Bachelor of Science in Agriculture (B.S.A.) is granted as a General Course degree or with Honours. The General Course leading to the degree of B.S.A. covers a period of four years. The course leading to the degree of B.S.A. with Honours covers a period of five years and may be taken in various specialized fields of study.

The requirements for the First Year consist of 16 units, as outlined below:

- (a) Agriculture 100 (1 unit)
- (b) Botany 105 or Zoology 105
- (c) Chemistry 101 or 102
- (d) English 100
- (e) Mathematics 120
- (f) Elective (3 units)

Students taking one year's work at the College will lack four units of work in Agriculture which may be taken during the Second Year at the University.

COURSE LEADING TO A DEGREE IN PHARMACY

The course in the Faculty of Pharmacy covers a period of four years and leads to the Degree of Bachelor of Science in Pharmacy (B.S.P.).

For admission to Pharmacy it is required that the student shall have completed the First Year in Arts and Science with credit for the courses shown below and an average grade of at least 60 per cent., or that he shall have fulfilled the equivalent of these requirements by Senior Matriculation or by equivalent work taken in an approved university. (Students planning to enter Pharmacy are advised to present Chemistry 91, Mathematics 91 and either Physics 91 or Biology 91 for High School graduation.)

The required subjects are Chemistry 101 or 102; English 100 (Literature and Composition); Mathematics 120; Physics 101 or Zoology 105 (or Senior Matriculation Biology 100); and one optional subject to be chosen from Economics 100, French 110 or 120, Geography 101, German 90 or 110 or 120 or 130, History 101 or 102, Latin 90 or 110 or 120, Philosophy 100, Psychology 100, Russian 100, Spanish 90 or 110 or 120. Candidates who expect to complete the requisite entrance standing through University or Victoria College or Grade XIII (British Columbia) supplemental examinations, held in August, may apply for admission and their applications will be considered subject to the results of these examinations.

Because of limited accommodation, the number of students admitted to the First Year in the Faculty of Pharmacy may be restricted to 75. Preference will be given to those students who have been accepted as registered students of the Pharmaceutical Association of the Province of British Columbia on or before August 15th. Candidates should submit their credentials, prior to this date, to the Registrar, Pharmaceutical Association of the Province of British Columbia, 310 Dominion Bank Bldg., 207 West Hastings St., Vancouver 3.

COURSE LEADING TO BACHELOR OF LAWS

The course in the Faculty of Law covers a period of three years and prepares students for admission to the practice of law and for business and government service. The curriculum is based on the standard curriculum adopted by the Canadian Bar

Association for instruction in the common law system. The degree granted is that of Bachelor of Laws (LL.B.).

Candidates must present evidence of having:

- (a) graduated in an approved course of studies from an approved university; or
- (b) successfully completed the first three years of the course leading to the degree of Bachelor of Arts in the University of British Columbia and either (i) obtained at the regular sessional examinations in the Third Year thereof an average of not less than 65% or (ii) obtained in the combined results of the regular sessional examinations in the Second and Third Years thereof an average of not less than 60%*; or
- (c) successfully completed the requirements of the Faculty of Commerce and Business Administration in the combined B.Com., LL.B. course in the University of British Columbia; or
- (d) successfully completed the equivalent of (b) at an approved university.

COURSE LEADING TO A DEGREE IN MEDICINE

Admission to the Faculty of Medicine is based primarily upon ability and pre-medical achievement as demonstrated by scholastic records and aptitude tests, and on qualities as evidenced by interviews and letters of recommendation.

It is required that candidates shall have completed the equivalent of three full years in the Faculty of Arts and Science at the University of British Columbia. The minimum acceptable scholastic average is Second Class standing (65 to 79 per cent.).

Classes entering the First Year of Medicine are limited to sixty (60) students.

Candidates are required to take the Medical College Admission Test before the Fall of their Third Year of pre-medical training. Arrangements to take the test should be made with the pre-medical advisor of the institution at which the student is taking his pre-medical work. Information regarding this test may be obtained from the Psychological Corporation, 304 East 45th Street, New York 17. At the time the test is taken, the student should request that the scores be sent to the Screening Committee, Faculty of Medicine, University of British Columbia, Vancouver 8, B.C.

Pre-Medical Requirements

The requirements listed below apply to students taking their pre-medical work in the Faculty of Arts and Science at the University of British Columbia or Victoria College. An applicant from another university must submit evidence of having successfully completed equivalent prerequisite courses.

English: English 100 (Literature and Composition).

Mathematics: Mathematics 120 (Algebra, Geometry and Trigonometry).

Chemistry: Chemistry 101 or 102 (General Chemistry), Chemistry 200 (Analytic, Inorganic and Physical), or Chemistry 205 (Inorganic and Analytical Chemistry), Chemistry 203 or 300 (Organic Chemistry).

Physics: Physics 101 (Elementary Physics).

Zoology: Zoology 105 (General Zoology).

The student should select other courses to conform with the requirements for a baccalaureate degree. In general, medical school courses should not be anticipated.

* Students proposing to seek admission to the Faculty of Law are strongly recommended to take Commerce 151.

EVENING DIVISION

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

Victoria College offers certain credit courses during the evenings and on Saturday mornings for the benefit of adults who are not able to attend the regular day session. The Evening Division term is the same as that of the regular session and classes are conducted for the same number of hours per week. No student may take more than one Evening Division course (3 units) in each session.

Students taking one course only of the Regular Session offerings must register by mail through the Evening Division before September 14th. Registration without penalty must be completed before lectures begin on September 16th. On and after September 16th a late registration fee of \$5.00 will be charged.

In addition to the Regular Credit Courses, the Evening Division offers a limited number of non-credit courses. The courses to be offered in the fall of 1963 will be announced during the late summer, and registration by mail will be arranged early in September.

SUMMER SESSION

Director: HUGH E. FARQUHAR, M.A.

The announcement of the courses to be offered in the Summer Session (approximately seven weeks in length) will be issued, if possible, before Easter, and will be available on request from the Registrar.

The regulations, etc., governing the Summer Session are as follows:

1. The maximum credit for Summer Session work in any one calendar year is 6 units. Correspondence courses may not be taken concurrently.
2. Students are required to register before the opening day of the session. A fee of ten dollars (\$10.00) will be charged for late registration.
3. All students desiring to obtain formal credit for work done in the Summer Session must, upon entrance, present evidence of High School Graduation (University Programme) of this Province, or its equivalent.
4. Students must attend regularly the classes in a course for which they register. Those whose unexcused absences from such a course exceed one-eighth of its total number of meetings will not be credited with attendance in that course.
5. For statement of fees, see page 22.
6. Summer Session examinations are held at the close of the Summer Session.
7. For regulations regarding standing and credit, undergraduates should refer to pages 44-45.

VICTORIA COLLEGE — U.B.C. ALUMNI

Any student who has completed successfully 15 units of work at Victoria College or at the University of British Columbia is automatically a member of the Alumni Association of the University of British Columbia.

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, Victoria College — U.B.C. Alumni, c/o Victoria College, (Phone EV 5-3455).

REGISTRATION FOR 1962-63

FACULTY OF ARTS AND SCIENCE

	Men	Women	Total
First Year	469	230	699
Second Year	231	92	323
Third Year	127	38	165
Fourth Year	50	14	64
Graduates	3	1	4
Total	880	375	1255

FACULTY OF COMMERCE AND BUSINESS ADMINISTRATION

First Year	20	3	23
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FACULTY OF EDUCATION

Elementary Field

First Year Regular	27	114	141
Second Year Regular	23	135	158
Third Year Regular	10	26	36
Fourth Year Regular	3	5	8
Total	63	280	343
Second Year Transfers	23	84	107
Third Year Transfers	4	4	8
Fourth Year Transfers	1	1	2
Graduate Transfers	3	6	9
Total	31	95	126

Secondary Field

First Year	22	7	29
Second Year	12	9	21
Third Year	25	9	34
Fourth Year	14	3	17
Fifth Year	—	1	1
Total	73	29	102

Total in Faculty	167	404	571
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Grand Total	1067	782	1849
Evening Division Credit Courses	168	177	345
Evening Division Non-Credit Courses	281	543	824
Summer Session, 1962, Credit Courses	325	525	850
Summer Session, 1962, Non-Credit Courses	29	179	208

DEGREES CONFERRED

1962

May Congregation:

May 28: B.A. - 45; B.Sc. - 11; B.Ed. - 15.

UNIVERSITY SERVICE TRAINING CORPS

UNIVERSITY NAVAL TRAINING DIVISION

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

1. Royal Canadian Navy — Students between the ages of 16 and 21 desiring to make a career in the Royal Canadian Navy, are selected and enrolled under the "Regular Officer Training Plan" (ROTP). Applications must normally be made by July 1. Full information may be obtained from the Director ROTP, Ottawa or the Armed Forces Recruiting Center, Victoria, B.C.
Under ROTP, the Royal Canadian Navy pays for books, tuition, etc., together with a subsistence allowance of \$65. per month and a pay of \$63. per month during the academic year. During summer months training, Cadets receive board and lodging in lieu of subsistence allowance.
2. Royal Canadian Navy (Reserve) — Recruiting is normally carried out on campus during the month of September. Applicants must be enrolled in a course such that they will not reach their twenty-fifth birthday before January 1 of the year of graduation. Candidates are enlisted as Probationary Cadets. Upon successfully passing a Regional Selection Board in January of the first year, they are promoted to the rank of Cadet, RCN (R).

Cadets must complete three periods of winter training and two periods of summer training to qualify for promotion to the rank of Acting Sub-Lieutenant.

During winter training, cadets are paid up to a maximum of sixteen full days pay, while during summer training, carried out in ships and naval establishments they receive \$225. per month plus board, lodging and medical care. Uniforms and necessary accoutrements are provided by the Naval Service. UNTD Cadets are eligible, at any time, to apply for transfer to the ROTP, or the regular service.

Full information on the UNTD may be obtained from the Staff Officer, HMCS Malahat, or by writing the Commanding Officer, LCDR (P) G. S. McCaughey, University Naval Training Division, HMCS Malahat, Victoria, B.C.

CANADIAN OFFICERS' TRAINING CORPS

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

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

All inquiries for information should be directed to Captain R. H. Roy, Officer Commanding, Victoria College Detachment, U.B.C. - C.O.T.C.

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

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

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

Students who desire to make the R.C.A.F. a career may be enrolled as Flight Cadets in the R.C.A.F. Regular, under the Regular Officer Training Plan (R.O.T.P.). By agreeing to remain with the air force a minimum of three years after graduation, the selected candidate receives a monthly salary of \$63, a living allowance of \$65 per month or equivalent, and a book allowance of \$75 per year in addition to the College fees. Male students under 25 years of age who meet the medical and academic standards may apply for training under this plan. Preference, however, is normally given to undergraduates taking Engineering or Honours Mathematics, Honours Physics and Honours Chemistry courses.

On the other hand, undergraduates who are interested in the R.C.A.F. on a reserve basis, may enroll in the air force under the University Reserve Training Plan (U.R.T.P.). This plan offers three summers and winters of Reserve training for the student who is accepted. While undergoing training U.R.T.P. members have the status of officers and hold the rank of flight cadet. On completion of three years of training, the successful candidate receives his commission and is promoted to Pilot Officer. Following graduation from university, Pilot Officers are promoted to Flying Officer and their names are placed on the list of inactive reserve officers. Both male and female undergraduates may make application for training under the U.R.T.P. in an air force branch allied with their academic studies. Accepted students are paid at the rate of \$225 per month during the summer and provided with food, lodging, clothing and transportation to the applicable R.C.A.F. unit. Summer training normally covers a period of from 16 to 22 weeks and winter training consists of one parade a week during the academic term. For full attendance at parades during the academic year, U.R.T.P. members may receive a maximum of 16 days' pay amounting to approximately \$100.

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

Additional information may be secured by contacting Squadron Leader G. G. McOrmond or Flight Lieutenant D. W. Halliwell, University Squadron staff officers.

SCHOLARSHIP WINNERS FOR 1961-62

Miss Kathleen Agnew Scholarships	Lawrence M. Cross and Geraldine Y. S. Yee
Alliance Française Prize	Janice E. Hickman
Beta Sigma Phi Sorority, Xi Nu Chapter	Sara E. Hughes
British America Paint Company Scholarship	Carolyn S. McCammon
British Columbia Cement Company Limited Scholarship	Kenneth W. Foster
British Columbia 1958 Centennial Scholarship	Frederick W. Comer
British Columbia Hydro and Power Authority Scholarships	E. Brian Hughes and John A. Chapman and John P. Lawrence and Elsie C. Wollaston
British Columbia Telephone Company Scholarship	Richard A. Gough
Canadian Association for Health, Physical Education and Recreation, Inc. (Greater Victoria Branch)	No award this year
John Wesley and Emily E. Church Memorial Scholarship	Kenneth W. Blackwell
Clearihue Bursary	Anne E. Kemp
Comitas Club Centennial Scholarship	Jane K. Gilliland
Charles E. (Chuck) Copeland Memorial Scholarship	Glenda J. Keys
P. H. B. Dawson Bursary	Mary E. Edwards
Arthur S. Denny Scholarship	Gary J. Webb
Harold M. Diggon Memorial Bursary	Sandra A. McKeachie
T. Eaton Company (Canada) Scholarship	Judith A. Baines
Percy H. Elliott Memorial Scholarship	Carolyn S. McCammon
Engineers' Wives' Association Prize	Ian H. H. Fill
Faculty Women's Club Prize	Evelyn M. Bowering
Falk Scholarship	Katherine M. Bergbusch
Greater Victoria Christian Churches Centennial Scholarships	Judith A. Baines and Richard A. Gough and Anne E. Kemp
Camosun Gyro Club Scholarship	David A. Kelly
Victoria Gyro Club Scholarship	William F. Hubbard
William A. and Frances E. Harper Scholarship	Anne E. Kemp
History of the City of Victoria Essay Prizes	Denis Cliff and Johann E. Simmons
Hudson's Bay Company Scholarship	Gary W. McLeod
Municipal Chapter I.O.D.E. Scholarship	Gerald R. Skinner
Municipal Chapter I.O.D.E. Centennial Scholarship	Lawrence Devlin
Royal Bride Chapter, I.O.D.E. Special Fortieth Anniversary Scholarship	Sheila M. McEwan
Island Tug and Barge Limited Scholarship	Steven M. Hodge
Marian D. James Award	Catherine V. Hatch
Robert H. B. Ker Scholarship	Robert V. Cherneff
Kinsmen Club of Victoria Scholarship	Gordon S. Shrimpton
Kiwanis Club of Oak Bay Scholarship	Sylvia Mobey
Kiwanis Club of Victoria Scholarship	Richard A. Gough
Ladies' Auxiliary of Victoria Unit No. 12, Army, Navy and Air Force Veterans of Canada, General Proficiency Scholarships	Patricia L. Evans and Simon H. Whitlow
Lady Laurier Club Scholarship	Timothy W. Trousdell
Quita Nichol Bursary	Douglas E. Jubb
Quita Nichol Bursary	Pauline Owens
Quita Nichol Bursary	Richard A. Gough
Benny Nicholas Memorial Award	William T. Hoggarth
Opti.-Mrs. Club Bursary	Glenda J. Keys

Chapter 'N' P.E.O. Sisterhood Esther Pearce Memorial Prize	Karen N. Dickson
General and Mrs. G. R. Pearkes Prize	Simon H. Whitlow
Alan Pratt Memorial Scholarship	Steven M. Hodge
Rithet Consolidated Limited Bursary	Martha J. Daysmith
Rotary Club of Douglas Scholarship	Thomas A. Wyatt
Rotary Club of Victoria Scholarship	Margaret Yearsley
Royal Canadian Legion B.E.S.L. (Victoria, B.C.), Sir Percy Lake Memorial Scholarship	Anthea D. Fisk
Royal Institution and Frank Eaton Memorial Scholarship	Sandra A. McKeachie
Madame E. Sanderson Memorial Scholarship	Janice E. Hickman
Edward J. Savannah Memorial Scholarship	Carolyn S. McCammon
Nora Lugin Shaw Memorial Scholarship	Sandra A. McKeachie
Sidney Roofing and Paper Company Scholarship	Janice E. Hickman
Special Award	William F. Hubbard
Fred Spencer Scholarship	William M. Trenholme
University Women's Club Scholarship	Judith A. Baines
University Women's Club, Rosalind W. Young Scholarship	Geraldine Y. S. Yee (By reversion from Maxine Y. Hill)
Vancouver Island Branch, Engineering Institute of Canada Scholarship	Michael J. Woollends
Victoria Council, United Commercial Travellers of America Scholarship	Mary E. Edwards
Victoria and District Parent-Teacher Council Special Bursary	Maxine Y. Hill
Victoria Medical Society Scholarship	David G. Haegert
Victoria Unit No. 12, Army, Navy and Air Force Veterans of Canada Association Scholarships	D. Anthony Patriarche and Evelyn M. Gill
Victoria West Parent-Teacher Association Bursary	No award this year
Weber Memorial Bursary	Christopher D. Murray
Weston Bakeries Limited Scholarship	Derek G. Smith
Woodward Stores Limited Scholarship	R. Ann Craig
Yarrows Limited Bursary	Simon H. Whitlow
Yorkshire and Canadian Trust Limited Scholarship	Catherine V. Hatch (By reversion from Jane K. Gilliland)
Birks Gold Watch	Sandra A. McKeachie
Francis Gold Wrist Watch (Two awards this year)	Judith A. Baines and Richard A. Gough
Rose's Limited Jewelers Watch	Anne E. Kemp
Adelphi Book Shop Prize	Jane K. Gilliland
First Year English Book Prize	Margaret Yearsley
Gwen Downes Memorial Book Prize	Sandra A. McKeachie
The Haunted Bookshop Book Prize	Clifford S. Huxtable
French Government Book Prizes	Mary Ferguson and Janice E. Hickman and Pauline Owens
Le Club Canadien-français de Victoria Book Prize	Monica Fraser
La Federation Canadienne française de la Colombie Britannique Book Prize	Sandra A. McKeachie
Province of Quebec Book Prizes	Monica Fraser and Rodger Kilduff
German and Austrian Governments Book Prizes	Mrs. Maria K. Abbott and Mary E. Edwards and Coralie Fessey and Ian H. H. Fill and Janice E. Hickman and Glenda J. Keys

and Samuel L. Macey
and Pauline Owens
and John C. Simpson
and Derek G. Smith

Spanish Government Book Prize Victor Ouimette
G. B. Stark Memorial Slide Rule Prize Kenneth W. Foster
The Victoria Branch, British Columbia Historical
Association Book Prizes Jack W. May
Timothy W. Trousdell
Capt. S. Morgan History Prize Sandra A. McKeachie

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CHILDREN OF WAR DEAD (Education Assistance) ACT

This Act provides fees and monthly allowances for children of veterans whose death was attributable to military service. Enquiries should be directed to the nearest branch 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 encouragements capable persons to embark upon or continue studies in higher education, has made available a considerable large number of scholarships for first-class and high second-class students.

Application forms for these scholarships may be obtained after May 1st from the Department of Education, Victoria, B.C.; from the University of British Columbia, Vancouver, B.C.; from Victoria College, Victoria, B.C.; and, where the student is attending school, from the Principals of Senior High Schools. Completed applications must be submitted by the dates specified.

GOVERNMENT BURSARIES

The Government of the Province of British Columbia with consideration 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 1st from the Department of Education, Victoria, B.C.; from the University of British Columbia, Vancouver, B.C.; from Victoria College, Victoria, B.C.; and, where the student is attending school, from the Principals of Senior High Schools. Completed applications must be submitted by the dates specified.

THE STUDENT AID LOAN FUND

By an Act of the Provincial Legislature, the University of British Columbia has been authorized to borrow money for the establishment of the Student Aid Loan Fund, to provide assistance, under prescribed conditions, enabling students to attend the University of British Columbia, Victoria College, and certain other institutions.

Application forms for loans may be obtained from the Dean of Inter-Faculty Affairs at the University of British Columbia, Vancouver 8, B.C.; from Victoria College, Victoria, B.C.; or from the Department of Education, Victoria, B.C.

