CALENDAR

OF THE

University of British Columbia

FIRST SESSION
1915-16

VANCOUVER, BRITISH COLUMBIA
1915

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THE UNIVERSITY OF BRITISH COLUMBIA.

VISITOR.

The Honourable FRANK S. BARNARD, Lieutenant-Governor of British Columbia.

CHANCELLOR.

F. CARTER-COTTON, Esq., M.L.A.

PRESIDENT.

F. F. WESBROOK, M.A., M.D., C.M., LL.D.

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S. DUNN SCOTT, Esq., M.A., LL.D., Vancouver. Term expires 1921.
ROBERT P. MCLENNAN, Esq., Vancouver. Term expires 1921.
GEORGE H. BARNARD, Esq., K.C., M.P., Victoria. Term expires 1921.

SENATE.

(*a.*) The Minister of Education, the Honourable HENRY ESSON YOUNG, B.A., M.D., C.M., LL.D.
Superintendent of Education, ALEXANDER ROBINSON, Esq., B.A., LL.D.
The Chancellor.
The President (Chairman).
(*b.*) Dean of the College of Agriculture, LEONARD S. KLINCK, M.S.A.
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Dean of the College of Forestry,
Representative of the Faculty of Agriculture,
Representative of the Faculty of Agriculture,

Representative of the Faculty of Applied Science,
Representative of the Faculty of Applied Science,
Representative of the Faculty of Arts,
Representative of the Faculty of Arts,
Representative of the Faculty of Forestry,
Representative of the Faculty of Forestry,

(*c.*) Appointed by the Lieutenant-Governor in Council:—
J. W. CREIGHTON, Esq., New Westminster, B.C.
The Right Rev. A. U. DE PENCIER, D.D., Vancouver, B.C.
The Hon. D. M. EBERTS, K.C., M.L.A., Victoria, B.C.

(*d.*) The Principal of Vancouver Normal School, WM. BURNS, Esq., B.A.
The Principal of Victoria Normal School, D. L. MACLAURIN, Esq., B.A.

(*e.*) Representative of High School Principals,

(*f.*) Representative of Provincial Teachers' Institute,

(*g.*) Representative of Affiliated Colleges,

(*h.*) Elected by Convocation:—
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Mrs. M. R. WATT, M.A., Victoria, B.C.
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Hon. GORDON HUNTER, B.A., Victoria, B.C.
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J. M. PEARSON, Esq., M.D., Vancouver, B.C.

OFFICERS AND STAFF.

F. F. WESBROOK, M.A., M.D., C.M., LL.D., President.
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————, Librarian.
LEONARD S. KLINCK, M.S.A., Dean of the College of Agriculture and Professor of Agronomy.
REGINALD W. BROCK, M.A., F.G.S., F.R.S.C., Dean of the College of Applied Science and Professor of Geology.

Department of Chemistry.

DOUGLAS MCINTOSH, M.A., D.Sc., F.R.S.C., Professor of Chemistry and Head of the Department.
E. H. ARCHIBALD, M.A., Ph.D., F.R.S.E., Assistant Professor of Chemistry.

Department of Civil Engineering.

————, Professor of Civil Engineering.
H. K. DUTCHER, M.Sc., A.M.Can.S.C.E., Assistant Professor of Civil Engineering.

Department of Classics.

————, Professor of Classics.
L. F. ROBERTSON, M.A., Associate Professor of Classics.
R. E. MACNAGHTEN, M.A., Assistant Professor of Greek.
H. T. LOGAN, B.A., Instructor in Classics.

Department of Economics, Sociology, and Political Science.

————, Professor.

Department of English.

————, Professor of English.
J. K. HENRY, B.A., Assistant Professor of English.

Department of Geology and Mineralogy.

REGINALD W. BROCK, M.A., F.R.S.C., Professor of Geology.

Department of History.

————, Professor of History.
MACK EASTMAN, B.A., Ph.D., Assistant Professor of History.

Department of Mathematics.

————, Professor.
G. E. ROBINSON, B.A., Associate Professor of Mathematics.
E. E. JORDAN, M.A., Instructor in Mathematics.

Department of Mechanical Engineering.

————, Professor of Mechanical Engineering.
L. KILLAM, B.A., B.Sc., Assistant Professor of Mechanical Engineering.

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————, Draughting.
H. TAYLOR, Machine-work.
S. NORTHUP, Wood-working.
R. EDWARDS, Blacksmithing.
————, Moulding.

Department of Mining and Metallurgy.

————, Professor of Mining and Metallurgy.

Department of Modern Languages.

H. ASHTON, B.A., D.Litt., Officier de l'Instruction Publique, Assistant Professor of French.
HENRI CHODAT, M.A., Assistant Professor of Modern Languages.
ISABEL MACINNES, M.A., Instructor in Modern Languages.

Department of Philosophy.

————, Professor of Philosophy.
JAMES HENDERSON, M.A., Assistant Professor of Philosophy.

Department of Physics.

H. T. BARNES, D.Sc., F.R.S., Professor of Physics (on leave).
J. G. DAVIDSON, B.A., Ph.D., Associate Professor of Physics.
B. L. SILVER, B.A., Instructor in Physics.

ACADEMIC YEAR, 1915-16.

1915. Thursday, August 26th.	Supplemental Examinations in Applied Science begin.
Monday, August 30th.	Summer School in Surveying opens.
Monday, September 20th.	Supplemental Examinations in Arts begin.
Tuesday, September 21st.	Matriculation Examinations begin.
Monday, September 27th.	Registration; meeting of the Faculty.
Thursday, September 30th.	Lectures begin.
Tuesday, October 5th.	Meeting of the Faculty.
Friday, November 5th.	Meeting of the Faculty.
Friday, November 19th.	Meeting of the Faculty.
Friday, December 10th.	Meeting of the Faculty; last day of lectures for term in Arts.
Monday, December 13th.	Examinations begin.
Saturday, December 18th.	Christmas vacation begins.
Tuesday, December 21st.	Meeting of the Faculty.

1916. Monday, January 3rd.	Second Term opens.
Tuesday, January 18th.	First Term final Examinations in Applied Science.
Friday, January 21st.	Meeting of the Faculty.
Friday, February 18th.	Meeting of the Faculty.
Friday, March 3rd.	Meeting of the Faculty.
Friday, March 17th.	Meeting of the Faculty.
Friday, March 31st.	Good Friday.
Wednesday, April 12th.	Last day of lectures; meeting of the Faculty.
Monday, April 17th.	Sessional Examinations begin.
Saturday, April 29th.	Meeting of the Faculty.

MATRICULATION EXAMINATION TIME-TABLE.

SEPTEMBER, 1915.

TUESDAY, SEPTEMBER 21ST.

Morning, 9–11.—English Literature.
11–12.30.—Botany and Chemistry.
Afternoon, 2.30–4.30.—English Composition.

WEDNESDAY, SEPTEMBER 22ND.

Morning, 9–11.—Latin Authors; Arithmetic.
11–12.30.—Trigonometry.
Afternoon, 2.30–4.30.—Latin Composition and Sight; English Grammar.

THURSDAY, SEPTEMBER 23RD.

Morning, 9–11.—Algebra, Part I.
11–1.—French Grammar.
German Grammar.
Afternoon, 2.30–4.30.—French Translation.
German Translation.

FRIDAY, SEPTEMBER 24TH.

Morning, 9–11.—Geometry, Part I.
11–12.30.—Physics; Physiography.
Afternoon, 2.30–4.30.—History.

SATURDAY, SEPTEMBER 25TH.

Morning, 9–11.—Algebra, Part II.: Greek Authors.
Afternoon, 2.30–4.30.—Geometry, Part II.: Greek Composition and Sight.

Special arrangements may be made for the examination of candidates who are prevented by severe illness or domestic affliction from presenting themselves on the dates fixed above.

EXAMINATION TIME-TABLES.

FACULTY OF ARTS, SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1915.

Date.	Hour.	Supp. to First Year Sessional.	Supp. to Second Year Sessional.	Supp. to Third Year Sessional.
Friday, 17	9	Trigonometry	English Literature	English Literature.
	2	Algebra	English Composition	English Composition.
Monday, 20	9	Latin Books	Latin Books	Latin Books.
	2	Latin Composition, Sight Translation, and History	Latin Composition, Sight Translation, History, and Literature	Latin Composition, Sight Translation. English Literature.
Tuesday, 21	9	French	French	French.
	2	French	French.	
Wednesday, 22	9	English Literature	Chemistry	Mathematics.
	2	English Composition and History	Psychology.	
Thursday, 23	9	Geometry	Greek Books. Logic. German.	
	2	Physics	Greek Composition, Sight Translation. German.	
Friday, 24	9	Greek Books German	Conics and Solid Geometry.	
	2	Greek Composition, Sight Translation, and History German	Algebra.	

SESSIONAL EXAMINATIONS.

Christmas Examinations will be held, commencing Monday, December 13th, 1915, and ending Friday, December 17th.

The time-table will be published during the Fall term.

Spring Examinations will be held commencing Monday, April 17th, 1916.

The time-table for this examination will be published during the session.

The University of British Columbia.

HISTORICAL SKETCH.

The Provincial University was suggested as early as 1877 by Superintendent Jessop, who pointed out the necessity for an institution in which the youth of the Province might receive an education that would equip them for their various activities in the life of their Province.

In 1890 the Provincial Legislature passed an Act establishing a body politic and corporate named the University of British Columbia. Under the Presidency of the Provincial Secretary, John Robson, the first Convocation was held in Victoria, August 26th, 1890. There were present seventy certified members of Convocation, who elected three members of Senate. A second meeting was held in October to discuss minor amendments to the "University Act."

Under the Act as amended in 1891, a meeting of the Senate was to be held within one month after the election of Senators by Convocation. This was accomplished on June 2nd, and the Chancellor, Dr. I. W. Powell, of Victoria, called a meeting of Senators for July 2nd. A quorum failed to assemble, and the first attempt to form the University was ended.

In 1904 a University Graduates' Society was formed in Vancouver "to make and co-operate in all efforts to secure a University (with endowments) for British Columbia." The Nelson University Club warmly supported these endeavours, as did also various religious denominations through their official organizations.

In 1907, Hon. Dr. Young, Minister of Education, took active steps to establish a University by having a "University Endowment Act" passed by the Legislature. By this Act (slightly amended in 1911 and 1913) the setting apart of 2,000,000 acres of land by way of endowment was authorized.

Constitution of Present University.

In 1908 an Act establishing and incorporating the University of British Columbia and repealing the old Act was passed. The Act of 1908 (slightly amended in 1912) provides:—

That the University shall consist of a Chancellor, Convocation, Board of Governors, Senate, and the Faculties; that the first Convocation shall consist of all graduates of any university in His Majesty's dominions resident in the Province two years prior to the date fixed for the first meeting of Convocation, together with twenty-five members selected by the Lieutenant-Governor in Council. After the first Convocation it shall consist of the Chancellor, Senate, members of the first Convocation, and all graduates of the University; that the Chancellor shall be elected by Convocation; that the Board of Governors shall consist of the Chancellor, President, and nine persons appointed by the Lieutenant-Governor in Council; that the Senate shall consist of: (*a*) The Minister of Education, the Chancellor, and the President of the University, who shall be Chairman thereof; (*b*) the deans and two professors of each of the Faculties elected by members of the Faculty; (*c.*) three members to be appointed by the Lieutenant-Governor in Council; (*d*) the Superintendent of Education, the principals of the normal schools; (*e*) one member elected by the high-school principals and assistants who are actually engaged in teaching; (*f*) one member elected by the Provincial Teachers' Institute organized under subsection (*e*) of section 8 of the "Public Schools Act"; (*g*) one member to be elected by the governing body of every affiliated college or school in this Province; (*h*) fifteen members to be elected by Convocation from the members thereof:

That the University shall be non-sectarian:

That instruction shall be free to all students in the Arts classes:

That women students shall have equality of privilege with men students:

That no other university having corporate powers capable of being exercised within the Province shall be known by the same name, nor have power to grant degrees.

Selection of a Site.

Under authority of an Act passed by the Legislature in 1910, the Lieutenant-Governor in Council appointed a Site Commission whose decision was to be final. The personnel of the Commission was as follows:—

Dr. R. C. Weldon, Dean of Law School, Dalhousie University, Chairman.

Rev. Canon G. Dauth, Vice-Rector, Laval University, Montreal.

Dr. Walter C. Murray, President, University of Saskatchewan.

Dr. Oscar V. Skelton, Professor of Economics, Queens University.

Dr. Cecil C. Jones, Chancellor, University of New Brunswick.

The Commission held its first meeting on May 25th, 1910, in Victoria, and, after an exhaustive examination of the Province, presented the following unanimous report:—

VICTORIA, B.C., June 28th, 1910.

To His Honour the Lieutenant-Governor in Council:

SIR,—The University Site Commission begs to submit the following report:—

In accordance with the provisions of the "University Site Commission Act, 1910," your Commissioners have visited and made a careful examination of the several cities and rural districts in the Province suggested as suitable University sites, and have selected as the location for the University the vicinity of the City of Vancouver.

Accompanying the main report was the following supplementary report:—

The University Site Commissioners are strongly of the opinion that the University should not be placed on a site which may in

time be completely surrounded by a city. They respectfully suggest that not less than 250 acres be set apart for the University campus and 700 acres for experimental purposes in agriculture and forestry. This is exclusive of a forest reserve for forestry operations on a large scale.

The Commissioners are of the opinion that the most suitable site is at Point Grey, unless the soils there and those of the delta land adjacent are found to be unsuitable for the experimental work of the College of Agriculture. Should Point Grey prove impossible, the Commissioners suggest: First, a site along the shore of North Vancouver, provided the tunnel and bridge are constructed; second, St. Mary's Hill, overlooking the Pitt, Fraser, and Coquitlam Rivers, provided residences are erected for the students. Central Park, though conveniently situated, will probably be surrounded by the Cities of Vancouver and New Westminster, and because of this and of the absence of outstanding scenic advantages is undesirable.

While the Commissioners are firmly convinced that it is of the highest importance to have all the Faculties of the University doing work of University grade located together, they believe that the diverse conditions of agriculture in this Province make it advisable to divide the work of agricultural education between the College of Agriculture and Schools of Agriculture of secondary grade located in different centres. The College of Agriculture should conduct researches, provide courses leading to a degree, and supervise the extension work and Schools of Agriculture. These schools should be established in conjunction with the Demonstration Farms in typical centres, and should provide short courses (extending over the winter months) of two or three years for the sons of farmers. Each school might specialize in one or more branches, such as horticulture, dairying, etc.

Similarly, Technical Evening Schools might be opened in the different coal-mining centres for the preparation of candidates for mining certificates, and in the metal-mining districts for the assistance of prospectors and others.

The Commissioners have been greatly impressed by the marvellous richness, variety, and extent of the natural resources of this Province, and by the very generous provision made for the endowment of the University; and they are of the opinion that, if the University adopts a policy of offering salaries ranging from $3,800 to $5,000 to its professors, it will attract men of the highest ability, who, by their scientific investigations and outstanding reputations, will not only materially aid in developing the resources of the Province, but will also place the University on an equality with the best universities of America.

In the autumn the Executive Council, after a careful survey of the sites proposed, decided to locate the University at Point Grey, the site which the Commission named as its first choice.

In 1911 the Legislature passed an Act authorizing the Lieutenant-Governor in Council to grant this site to the University. It was slightly increased in 1913.

The site at present consists of 250 acres lying upon the extremity of the headland of Point Grey at an elevation of approximately 300 feet above the sea. The waters from the Gulf of Georgia form more than half the boundary of the site, whilst the remaining sides are bounded by a tract of some 3,000 acres of Government land. It is accessible by water for passenger and freight service and is within a mile and a half of the existing electric tram service, which will be extended to the grounds. The site has now been cleared and some of the roads and main campus graded.

First Convocation.

Between May 1st and July 31st, 1912, 739 members of Convocation were registered, of whom twenty-five had been appointed by the Lieutenant-Governor in Council. The first Convocation, held August 21st, chose Mr. Francis Carter-Cotton as first Chancellor of the University and elected certain Senators.

Plans for Buildings.

In February, 1912, the Hon. H. E. Young, Minister of Education, called for competitive plans for the four buildings to be first erected, and a block plan showing the lay-out of future buildings, so as to secure a beautiful and harmonious scheme that would be in keeping with the site, one of the most magnificent in the world.

The first prize was $5,000 and the probability of being engaged as the University architect; the second, third, and fourth, $2,000, $2,000, and $1,000 respectively. The competition was closed in November, and the first prize awarded to Messrs. Sharp & Thompson, of Vancouver, by a Board of Assessors consisting of: Hon. H. E. Young, Minister of Education; F. Carter-Cotton,

Chancellor; A. Arthur Cox, Samuel Maclure, and W. Douglas Carol.

The President and Governors.

In March, 1913, the Lieutenant-Governor in Council appointed the President, F. F. Wesbrook, M.A., M.D., C.M., LL.D., and shortly after the following Governors:—

George H. Barnard, Esq., K.C., M.P.
Robert F. Green, Esq., M.P.
Robert E. McKechnie, Esq., M.D., C.M.
Robert P. McLennan, Esq.
Lewis G. McPhillips, Esq., K.C.
Robie L. Reid, Esq., K.C.
S. Dunn Scott, Esq., M.A., LL.D.
Campbell Sweeny, Esq.
George I. Wilson, Esq.

Buildings and Grounds.

The University architects are Messrs. Sharp & Thompson, of Vancouver, B.C., who obtained the award in the competition held in 1912. In November, 1913, Dr. C. C. James, Commissioner of Dominion Agricultural Instruction, met with the Commission appointed to examine and report upon the general design for the University. A general plan was prepared by the Commission and approved by the Board of Governors.

The report is cast in three parts, presenting a statement of the problem to be solved and the solution proposed by the Commission, and an account of the practical and other possibilities of the design in the course of its development. With it were submitted drawings showing the building areas for the various constituent portions of the University, and the location proposed for the buildings which are to be constructed at once. The report creates a comprehensive design for progressive growth, and provides for the needs of an institution potentially great, the relatively small beginnings of which must be arranged with due regard for present economy and efficiency, yet in such a manner

as to ensure co-ordination with a properly planned and steadily developing scheme.

The Commission consisted of:—

Dr. Thomas H. Mawson, City Planner and Landscape Artist, of London, England.

Mr. Warren Powers Laird, Professor and Head, School of Architecture, University of Pennsylvania, and Advisory Architect to the University of Wisconsin.

Mr. Richard J. Durley, late Professor and Head of the Department of Mechanical Engineering, McGill University.

Messrs. Sharp & Thompson, the University architects.

In accordance with the recommendations of the Commission's report, detailed plans and specifications are being prepared for the various buildings, and the Science Building is under construction.

This building is planned for the temporary accommodation of physics, chemistry, biological and certain other sciences, but it is intended for the ultimate sole use of chemistry. With its equipment it is expected to cost about $600,000.

Building plans are in process of completion for an Administration Building, to house library, administration, and certain of the humanities; two dormitory buildings, buildings for mines, engineering, and other applied sciences, and a heat and power plant, at an approximate cost, including the Science Building, of $2,000,000.

Preparations for Work.

In 1914 the Legislature voted $500,000 and the Government promised $1,000,000 for the following year, thus enabling the Board to proceed with actual work on the University. The clearing of the site was completed, necessary grading done; tenders were called for on the Science Building; the contract for the foundations and steel-concrete work was let, and work upon it started; the Deans of Agriculture and Applied Science and some professors were appointed, and in general the necessary preliminary preparations were made for beginning University work in the fall of 1915.

In order that the nucleus of a library might be available when operations began, Mr. Gerould, Librarian of the State University of Minnesota, was engaged to purchase in England, France, and Germany out-of-print publications and journals; also governmental and other official documents were obtained. The purchases exceeded 20,000 volumes. In addition, a number of valuable works have been donated. (*See* page 25.)

Upon the outbreak of war in August, the Board of Governors, feeling that it would be shortsighted and unpatriotic to commit the public to a large capital expenditure and heavy fixed charges when every available dollar in the country might be required in the struggle to preserve the rights and liberties of free peoples, decided to withhold the contract for the completion of the Science Building, to make no further contracts or appointments to the staff, and to postpone large expenditures upon the library and grounds. By this action the grant for the year largely reverted to the Provincial Treasury, and the people were not committed to a heavy outlay in 1915.

In 1915 the Legislature voted sufficient funds to enable the University to take over and carry on the work of McGill University College, and add a year's work to it, thus giving a complete Arts Course leading to a degree and the first three years in a course in Applied Science, and also to permit Dean Klinck to prepare and put under cultivation a small portion of the campus to be ready for experimental work by the time agricultural classes can be undertaken.

Royal Institution for the Advancement of Learning of British Columbia.

Through the years during which the Provincial University has been taking form and coming into being higher education in the Province has not been neglected, but important work has been carried on.

In 1896 the "School Act" was amended so as to permit the Boards of School Trustees of the four Coast cities, upon petition,

to obtain charters of incorporation as Boards of Governors of their respective schools, thus enabling them to affiliate with Eastern Canadian universities. Under these Acts the High Schools of Victoria and Vancouver became affiliated with McGill University, which affiliation was accepted and confirmed by an Act passed in 1906 to incorporate the Royal Institution for the Advancement of Learning of British Columbia. This Act, amended in 1907, granted power to the Royal Institution to establish at such places in British Columbia as McGill University might designate, colleges for the higher education of men and women. The Royal Institution at once entered into negotiations with the School Boards of Vancouver and Victoria, and the University classes in these two cities were transferred to the control of the Royal Institution. The instruction given was similar to that of McGill University, the standards were identical, and the University examined and accepted the undergraduates *ad eundem statum.*

In Vancouver the work of instruction has been given in the first, second, and third year in Arts and first and second year in Applied Science. Two hundred and ninety-two students have been registered during the year 1914-15.

In Victoria instruction has been given in the first and second year Arts, there being seventy students registered for 1914-15.

The expenses of conducting these University classes have been met by grants from the Provincial Government and from the respective Boards of School Trustees, Sir William Macdonald, of Montreal, and, in the initial stages, by public-spirited citizens of British Columbia. During the last two years the University of British Columbia has contributed to the upkeep of the McGill University College.

McGill University College ceases to exist now that work is undertaken by the University of British Columbia. The University needs of the Province have been well served under somewhat adverse conditions by the McGill University College. That satisfactory work has been accomplished is evidenced by the high standing taken in the older universities by the students who have had their training in the lower University years in this College,

THE UNIVERSITY AND THE PROVINCE.

The University of British Columbia is to be considered an integral part of the public educational system of the Province. As such it completes the work begun in the public and high schools, holding to the high school, with regard to studies a position comparable to that which the high school sustains to the public school. As those who have passed through the public schools may freely avail themselves of the high school, so those who have profited by instruction offered in the high schools may advance to the opportunities afforded by the University. To encourage all who may be able to proceed to the higher education, the passage from one grade to another is made as easy and natural as possible. The Province, through the University, undertakes to furnish instruction in the various branches requisite for a liberal education, and in the technical branches that have a bearing upon the life and industries of the Province. It will aim to encourage research work in all departments, to produce creative scholars, and so do its share in enlarging the domain of knowledge. It is the intention to organize an extension division, upon a broad basis, to assist the people of the Province to assimilate the useful knowledge so rapidly advancing, and to carry it to those whose circumstances deprive them of the opportunity of attendance within its walls.

By prescribing a large number of studies during the first years of undergraduate work, and by leaving a wide choice to the student during his final years under a definite system, the University endeavours to give a wise measure of direction, while at the same time encouraging individual adaptation and special development.

As the research arm of the Province it will be the policy of the University to place its resources for research at the service of the citizens, and to disseminate such information concerning the application of science to the industries of the Province as may prove helpful. Thus it will be the general policy of the institution to foster the educational interests of the Province, broadly and generously interpreted.

GENERAL INFORMATION.

Degrees.

The "University Act" gives the University full powers to grant such degrees in the several Faculties and different branches of knowledge as the Senate may from time to time determine. The Act reserves for the University the sole right to confer degrees in this Province, except in Theology.

Courses of Study.

For the Session 1915-16 the University offers instruction in the first, second, third, and final years of the Arts Course, leading to the degree of Bachelor of Arts, which will be conferred upon those who successfully complete the course, and the first, second, and third years of a Course in Applied Science.

The courses in Arts are open to men and women equally.

The Session.

The University year or session is divided into two terms, the first extending to the Christmas vacation, and the second from the expiry of the Christmas vacation to the end of the Sessional Examinations in April.

The Session of 1915-16 will begin on Monday, September 27th.

A matriculation examination will be held in 1915, commencing on Tuesday, September 21st, and in June, 1916.

Buildings.

Since there is no accommodation at present on the University site at Point Grey, the work for the coming session will be conducted in the buildings occupied last year by McGill University College. These consist of a large frame building erected by the College, containing laboratories and class-rooms, a workshop and foundry, and a fine new modern structure ultimately intended for

the Vancouver General Hospital, but well adapted for College work, and available until permanent accommodation for the University is provided. Additional space will be furnished by temporary buildings.

Equipment.

Laboratories and complete equipment will be available for thorough courses in the work undertaken during the session. The equipment already provided at McGill University College is being supplemented by additions in chemistry, physics, geography, geology, and engineering. Unrivalled facilities for field-work in physical geography, geology, mining, and other engineering, and important engineering work in all branches, exist in the immediate vicinity of Vancouver. Climatic conditions will permit class excursions to be made throughout the session. The library already contains about 30,000 volumes.

Student Advisers.

Upon entrance each student is assigned to a member of the Faculty, who acts as his adviser in the matter of studies. Each term the student is requested to consult his adviser concerning the choice of studies, and the adviser must give his approval before the student is permitted to enter classes.

The special advisers for women students will be glad to give counsel and advice on any matters on which they may be consulted.

Church Attendance.

All students are expected to attend the church of the denomination to which they adhere.

Students are requested to report to the President in writing the churches which they intend to make their places of worship. This list will be used as the basis for notification to the various churches.

Physical Examination.

In order to promote as far as possible the physical welfare of the student body, every student, on entering the University, will

be required to pass a physical examination, to be conducted by, or under the direction of, a recognized medical practitioner.

By such an examination physical defects and weaknesses, amenable to treatment, may be discovered. The student would then be expected to apply to his physician for such remedial measures as his case may require. Those who are examined will also be advised as to the forms of exercise or athletic activities which would likely be beneficial or injurious.

Military Training.

Military training for male students is not optional, but is required of all male students. (*See* page 97.)

Board and Residence.

Good board and lodging can be obtained in the vicinity of the College buildings at a cost of from $20 per month upwards; or, separately, board at $14 to $21 per month; rooms at $6 to $9 per month.

Lists of approved boarding-houses, accessible to the University, the moral and sanitary conditions of which are satisfactory, may be obtained from the Registrar. Requests for these should state whether they are for men or women students.

Men and women students are not permitted to lodge in the same house, unless they are members of the same family, or receive special permission from the Senate.

Opening Date of Session 1915-16.

The Session 1915-16 will open in all Faculties on Monday, September 27th, 1915.

DONATIONS.

The following donations have been received:—

A complete file of the *News-Advertiser* up to 1910, bound in half-leather, from Mr. F. Carter-Cotton, Vancouver.

Complete set of Debates and Parliamentary Papers, from H.M. Imperial Government, London.

Reports and Publications of the Canadian Geological Survey, from O. E. LeRoy, Ottawa.

Publications of the Carnegie Institution of Washington.

Publications of the United States Geological Survey and Bureau of Mines.

Publications of the Imperial Bureau of Entomology, from C. Gordon Hewitt, Ottawa.

The MS. notes of Harvey's Lectures, from Sir William Osler.

Reprints and Official Publications, from R. W. Brock, Vancouver.

Makers of Canada, Life of Egerton Ryerson, Life of Sir John A. Macdonald, from Henry Lye, Vancouver.

Alison's History of Europe, from R. Elliott Turnbull, North Vancouver.

Encyclopœdia Americana (1906); Early Statutes of Canada; Evidence and Findings of the Alaska Boundary Commission, 1903; copies of Archæological, Army Service, and University Magazines; and nearly two hundred publications of the U.S. Forestry Department, from F. C. Wade, K.C., Vancouver.

Complete copy of the 1912 census of the United States, and eighty other United States Government publications, principally of the Departments of Agriculture and Labour, and of the Interstate Commercial Commission, from R. G. Mansfield, Esq., American Consul, Vancouver.

Works on Primitive History and on Logic, by Robie L. Reid, K.C., Vancouver.

Collection of Japanese Butterflies, from Mr. Cataro Fugita.

Fossils from the Fraser Delta, from Mr. A. E. Rand, New Westminster.

For particulars of the Perpetual Scholarships founded by the Royal Institution for the Advancement of Learning, *see* page 52.

ADMISSION TO THE UNIVERSITY.

I. ADMISSION BY MATRICULATION EXAMINATION OR ITS EQUIVALENT.

I. REGULATIONS.

1. Matriculation examinations are held only in June and September.

All inquiries relating to the examinations should be addressed to the Registrar.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which *see* page 30) one month before the examination begins. Blank forms may be obtained from the Registrar.

3. Examinations for matriculation will be held beginning June 26th, 1916, at all the centres in British Columbia at which high-school examinations are now held, that is to say: Armstrong, Bridgeport, Chilliwack, Cranbrook, Cumberland, Duncan, Enderby, Fernie, Golden, Grand Forks, Kamloops, Kaslo, Kelowna, Ladner, Ladysmith, Matsqui, Mission, Nanaimo, Nelson, New Westminster, Peachland, Penticton, Point Grey, Alberni, Prince Rupert, Revelstoke, Rossland, Salmon Arm, Summerland, Trail, Vancouver (Britannia, King Edward, and King George), North Vancouver, South Vancouver, Vernon, and Victoria, as well as Abbotsford, Agassiz, Belmont, Cloverdale, Creston, Greenwood, Hedley, Merritt, Quesnel, and Sidney, and at any other high school established during the year.

4. The matriculation examination may be taken in two parts, but in order to be valid for entrance it must be completed within two years from the date of the first attempt. Credit will not be given for less than four papers passed at one time, except (*a*) in the case of candidates who have passed in that number at the June examination and who wish to take additional papers in the following September, and also (*b*) in the case of those who are not required to take as many as four papers to com-

plete the examination; nor will credit be given for less than four papers on certificates which may be presented for exemption from the matriculation examination, and no certificate will be accepted which has been obtained under easier conditions than those which are imposed on candidates who are attempting to qualify for entrance by taking the regular University examination.

5. Candidates will not be considered as having passed in any subject unless they obtain at least 50 per cent. of the maximum marks in that subject, and in subjects in which two papers are set, at least 40 per cent. on the lowest paper.

This regulation applies also in the case of candidates who present certificates.

6. Candidates for admission to the Faculties of Arts and Applied Science who have failed to complete the matriculation requirements will be allowed to enter the first year as conditioned undergraduates, provided (*a*) that they have not failed in more than two papers (which in the Faculty of Applied Science cannot both be in the mathematical section), and (*b*) that they have obtained at least 25 per cent. in the subjects in which they have failed and 50 per cent. of the aggregate.

This regulation applies also to candidates who seek to satisfy the matriculation requirements by means of certificates granted by other recognized examining bodies.

Students conditioned in a language must attend a special tutorial class during their first session, for which a fee of $10 is exigible. Any student so conditioned who fails to attend this class with regularity will not be allowed to present himself for examination.

7. Matriculation certificates will be issued to candidates who have passed the entrance examination conducted by the University, but not to those who have qualified by means of certificates, except when the greater part of the requirements have been satisfied by passing the University examination.

8. The certificates and diplomas named below will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the matriculation examination, i.e., in so far as the subjects and standard of the

examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass the matriculation examination in such of the necessary subjects as are not covered thereby.

Intending students who wish to enter by certificates should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificates they hold, as many of these may lack one or more essential subjects, or the work done in a subject may not be adequate, or, again, the percentage gained may not be sufficiently high. (See *Regulation 5.*) *Moreover, it must be remembered that a certificate may admit to one Faculty and not to another. When a diploma or certificate does not show the marks obtained in the several subjects of the examination, it must be accompanied by an official statement containing this information.*

Province of Quebec.

The University School Leaving certificate.

The Model School diploma, under certain conditions.

Province of Ontario.

Certificates of admission to the Normal School and to the Faculty of Education.

Junior and Senior Matriculation certificates.

Province of New Brunswick.

First-class, Superior and Grammar School licences.

Grade XI. and XII. certificates.

Province of Nova Scotia.

The Leaving certificates of Grades XI. and XII.

Province of Prince Edward Island.

First-class Teachers' licences.

Second- and Third-year certificates of Prince of Wales College.

Province of British Columbia.

Intermediate and Senior Grade certificates.

Province of Manitoba.

First- and Second-class Teachers' certificates.

Provinces of Alberta and Saskatchewan.

The Departmental Examination certificates for Standards VII. and VIII.

Newfoundland.

Associate Grade certificates.

United States.

Certificates granted by the College Entrance Examination Boards, and by the New York State Board of Regents.

Great Britain.

The holder of a Higher Certificate or a School Certificate of the Oxford and Cambridge Schools Examination Board, of the Senior Certificate of the Oxford or Cambridge Board of Examiners, or of a First-class Certificate of the College of Preceptors, or of a Higher Examination Certificate of the Scotch and Welsh Education Departments is entitled to exemption from the matriculation *pro tanto*, if the candidate has at one and the same examination passed in certain specified subjects.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as occasion may require by the Matriculation Board. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

II. MATRICULATION EXAMINATION FEES.

Junior Matriculation.

For the first examination*..... $ 5 00
(For examination at a local centre where not more than four candidates are writing the fee will be determined by the Registrar.)

* In the case of candidates who qualify on certificates, or by other examinations in all but three subjects or less, the fee will be $3.

For a subsequent examination in one or two subjects..	2 00
For a subsequent examination in three or more subjects	3 00
For examination of certificates, in respect of which candidates are exempted from the whole of the matriculation examination	1 00

Senior Matriculation.

For the first examination.....	$10 00
For a subsequent examination, per subject	2 00

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

III. SUBJECTS OF EXAMINATION.

FACULTY OF ARTS.

Junior Matriculation.

(Admission to First Year.)

(For Candidates intending to take the B.A. Course.)

1. **English** (two papers).
2. **History** (one paper).
3. **Latin** *or* **Greek** (two papers).
4. One of the following (two papers in each):—
   Greek *or* **Latin** (the one not already chosen).
   French, German.
5. **Algebra, Part I.**, and **Arithmetic** (one paper).
6. **Geometry, Part I.** (one paper).
7. One of the following:—
   Physiography, Botany, Chemistry, Physics (one paper);
   a Language not already chosen (two papers).

(For Candidates intending to take the B.A. Course in Arts, with Scientific Option.)

1. **English** (two papers).
2. **History** (one paper).

3. **Algebra, Part I.**, and **Arithmetic** (one paper).
4. **Geometry, Part I.** (one paper).
5. **French** (two papers).
6. **Latin** *or* **German** (two papers) *or* **Physics** (one paper).
7. One of the following:—
   Botany, Chemistry, Physics—if not already chosen (one paper); **Latin** (if not already chosen); **Greek** (two papers).

Senior Matriculation.

(Admission to Second Year.)

(For Candidates taking the B.A. Course.)

1. **English.**
2. **History.**
3. **Mathematics (Algebra, Geometry, and Trigonometry).**
4. **Physics.**
5. **Latin, Greek, French, German (any two*).**

The requirements in each subject are stated on pages 44 to 46.

FACULTY OF APPLIED SCIENCE.

Junior Matriculation.

(For all Courses leading to the Degree of B.Sc. in the Different Branches of Engineering.)

1. **English** (two papers).
2. **History** (one paper).
3. One of the following:—
   French, German, Latin, Greek (two papers).
4. **Algebra, Part I.**, and **Arithmetic**, and **Algebra, Part II.** (two papers).
5. **Geometry, Parts I.** and **II.** (two papers).
6. **Trigonometry** (one paper).
7. One of the following:—
   Botany, Chemistry, Physics (one paper); **a Language not already chosen** (two papers).

* *See* Information for Students in Arts, First Year, page 54.

IV. REQUIREMENTS IN EACH SUBJECT.

For Junior Matriculation.

English Grammar.

Main facts in connection with the history of the language; etymology and syntax. A good knowledge of parsing and analysis is essential. West's English Grammar for Beginners is recommended as a text-book.

One examination paper of two hours.

History and Historical Geography.

For 1915, candidates will be required to show a somewhat intimate acquaintance with the history of England, from 1485 to the present time. While any text-book written for the upper forms of schools may be used in preparation for the examination, Gardiner's Outline of English History (Longmans) is recommended.

For 1916.—Introduction to World History by Keatinge and Frazer.

The geography required will be that relating to the history prescribed.

One examination paper of two hours.

Arithmetic.

All the ordinary rules, including square root, and a knowledge of the metric system.

One examination paper of two hours.

English.

A. *Composition and Reading.*—The principles of English composition, as in Sykes's Elementary Composition, or English Composition by Latham and Macmillan (Educational Book Co.), with a short essay on a general subject and two or three others based on the works prescribed for reading, as follows: (a) Prose (two books to be selected)—Washington Irving, The Sketch Book (ed. Lichfield, Ginn & Co.); Scott, Ivanhoe; George Eliot, Silas Marner (ed. Witham, Ginn & Co.); Addison

and Steele, Sir Roger De Coverley Papers (ed. Litchfield, Ginn & Co.). (*b.*) Poetry (one to be selected)—Shakespeare, As You Like It (Macmillan or Ginn); Tennyson, Gareth and Lynette (Macmillan or Ginn); Longfellow, The Courtship of Miles Standish. The editions are merely recommended, not required.

The books selected should be read carefully, but the student's attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Frequent practice in composition is essential.

B. *Literature* (for critical study).—Any two of the following: Shakespeare, Julius Cæsar; Nineteenth Century Prose (ed. Cunliffe), pages 127 to the end, with notes (Copp, Clark Co.); Poems of the Romantic Revival (Copp, Clark Co.), pages 83 to the end, with notes.

Candidates will be expected to have memorized some of the finest passages.

Two examination papers of two hours each.

Spelling will be tested by the candidate's papers in English. Examiners in other subjects will also take note of misspelled words and will report flagrant cases to the Board.

Greek.

For 1915.

Texts.—Philpotts and Jerram, Easy selections from Xenophon, Chaps. 3, 4, 5.

For 1916.

Philpotts and Jerram, Easy selections from Xenophon, Chaps. 3, 4, 5; Homer, Iliad, lines 1 to 350.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Greek into English.

Two papers of two hours each will be set; one on the prescribed texts, the other on translation at sight, accidence, and syntax.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

Latin.

For 1916.

Texts.—(*a*) Cæsar, De Bello Gallico, Books II. and III.; and (*b*) *Either* Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," American Book Company), lines 1 to 670, *or* Virgil, Aeneid II. (Wainwright, Bell's Illustrated Classics), verses 1 to 505.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Latin into English.

Composition.—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

NOTE.—The "Roman" method of pronouncing Latin is recommended.

At the September examination other texts in Latin equivalent to those specified may be accepted, if application be made to the Registrar at least a month before the day of the examination.

French.

Grammar.—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation at Sight into English of a French passage of moderate difficulty.

Translation at Sight into French of detached English sentences and an easy English passage. Material for such translation

is selected with a view to testing the candidate's general knowledge of French grammar.

Books recommended: Fraser and Squair's French Grammar or Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

A list of French texts suitable for class reading can be obtained by applying to the Registrar.

Two papers will be set, of two hours each; one on grammar, including translation of short English sentences into French, and one on translation of continuous passages from French into English and from English into French.

German.

Grammar.—A thorough knowledge of German accidence and syntax as in Van der Smissen, or any other German grammar of equally good standing.

Translation at Sight into English of a German passage of moderate difficulty.

Translation into German of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

Texts.—(Translation and grammatical study):—

For 1915 and 1916.—Volkmann, Kleine Geschichten (Heath & Co.); Stille Wasser, ed. Bernhardt (Heath & Co.). It is recommended that candidates should read the prescribed texts in the above order, beginning in Volkmann's Kleine Geschichten with Himmelsschlüssel and Siebenmeilenstiefel.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

Two papers will be set, of two hours each; one on grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

Algebra, Part I.

Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities; as in Hall and Knight's Elementary Algebra to the end of surds (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper of two hours.

Algebra, Part II.

The three progressions, ratio, proportion, variation, permutations, and combinations, binomial theorem, logarithms, theory of quadratic equations; as in the remainder of Hall and Knight's Elementary Algebra (omitting Chaps. 40 to 44, inclusive), or as in similar text-books.

One examination paper of an hour and three-quarters.

Geometry, Part I.

The paper shall contain questions on practical and on theoretical geometry. Every candidate shall be expected to answer questions in both branches of the subject.

The questions on practical geometry shall be set on the constructions contained in the annexed Schedule A, together with easy extensions of them. In cases where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set-square, protractor, compasses, and a hard pencil. All figures should be drawn accurately. Questions may be set in which the use of the set-square or of the protractor is forbidden.

The questions on theoretical geometry shall consist of theorems contained in the annexed Schedule B, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition shall be accepted which appears to the examiners to form part of a systematic treatment of the subject; the order in which the theorems are stated in Schedule B is not imposed as the sequence of their treatment.

In the proof of theorems and deductions from them, the use of hypothetical constructions shall be permitted. Proofs which are only applicable to commensurable magnitudes shall be accepted.

SCHEDULE A.

Bisection of angles and of straight lines.

Construction of perpendicular to straight lines.

Construction of an angle equal to a given angle.

Construction of parallels to a given straight line.

Simple cases of the construction from sufficient data of triangles and quadrilaterals.

Division of straight lines into a given number of equal parts or into parts in any given proportions.

Construction of a triangle equal in area to a given polygon.

Construction of tangents to a circle and of common tangents to two circles.

Simple cases of the construction of circles from sufficient data.

Construction of a fourth proportional to three given straight lines and a mean proportional to two given straight lines.

Construction of regular figures of 3, 4, 6, or 8 sides in or about a given circle.

Construction of a square equal in area to a given polygon.

SCHEDULE B.

If a straight line stands on another straight line, the sum of the two angles so formed is equal to two right angles; and the converse.

If two straight lines intersect, the vertically opposite angles are equal.

When a straight line cuts two other straight lines, if (i) a pair of alternate angles are equal, or (ii) a pair of corresponding angles are equal, or (iii) a pair of interior angles on the same side of the cutting line are together equal to two right angles, then the two straight lines are parallel; and the converse.

Straight lines which are parallel to the same straight line are parallel to one another.

The sum of the angles of a triangle is equal to two right angles.

If the sides of a convex polygon are produced in order, the sum of the angles so formed is equal to four right angles.

If two triangles have two sides of the one equal to two sides of the other, each to each, and also the angles contained by those sides equal, the triangles are congruent.

If two triangles have two angles of the one equal to two angles of the other, each to each, and also one side of the one equal to the corresponding side of the other, the triangles are congruent.

If two sides of a triangle are equal, the angles opposite to these sides are equal; and the converse.

If two triangles have the three sides of the one equal to the three sides of the other, each to each, the triangles are congruent.

If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, the triangles are congruent.

If two sides of a triangle are unequal, the greater side has the greater angle opposite to it; and the converse.

Of all the straight lines that can be drawn to a given straight line from a given point outside it, the perpendicular is the shortest.

The opposite sides and angles of a parallelogram are equal, each diagonal bisects the parallelogram, and the diagonals bisect one another.

If there are three or more parallel straight lines, and the intercepts made by them on any straight line that cuts them are equal, then the corresponding intercepts on any other straight line that cuts them are also equal.

Parallelograms on the same or equal bases and of the same attitude are equal in area.

Triangles on the same or equal bases and of the same altitude are equal in area.

Equal triangles on the same or equal bases are of the same altitude.

Illustrations and explanations of the geometrical theorems corresponding to the following algebraical identities:—

$$k\,(a+b+c\ldots) = ka+kb+kc+\ldots$$
$$(a+b)^2 = a^2+2ab+b^2$$
$$(a-b)^2 = a^2-2ab+b^2$$
$$a^2-b^2 = (a+b)\,(a-b).$$

The square on a side of a triangle is greater than, equal to, or less than the sum of the squares on the other two sides, according as the angle contained by those sides is obtuse, right, or acute. The difference in the cases of inequality is twice the rectangle contained by one of the two sides and the projection on it of the other.

The locus of a point which is equidistant from two fixed points is the perpendicular bisector of the straight line joining the two fixed points.

The locus of a point which is equidistant from two intersecting straight lines consists of the pair of straight lines which bisect the angles between the two given lines.

A straight line, drawn from the centre of a circle to bisect a chord which is not a diameter, is at right angles to the chord; conversely, the perpendicular to a chord from the centre bisects the chord.

There is one circle, and one only, which passes through three given points not in a straight line.

In equal circles (or, in the same circle) (i) if two arcs subtend equal angles at the centres, they are equal; (ii) conversely, if two arcs are equal, they subtend equal angles at the centres.

In equal circles (or, in the same circle) (i) if two chords are equal, they cut off equal arcs; (ii) conversely, if two arcs are equal, the chords of the arcs are equal.

Equal chords of a circle are equidistant from the centre; and the converse.

The tangent at any point of a circle and the radius through the point are perpendicular to one another.

If two circles touch, the point of contact lies on the straight line through the centres.

The angle which an arc of a circle subtends at the centre is double that which it subtends at any point on the remaining part of the circumference.

Angles in the same segment of a circle are equal; and, if the line adjoining two points subtends equal angles at two other points on the same side of it, the four points lie on a circle.

The angle in a semicircle is a right angle; the angle in a segment greater than a semicircle is less than a right angle; and the angle in a segment less than a semicircle is greater than a right angle.

The opposite angles of any quadrilateral inscribed in a circle are supplementary; and the converse.

If a straight line touch a circle, and from the point of contact a chord be drawn, the angles which this chord makes with the tangent are equal to the angles in the alternate segments.

If two chords of a circle intersect either inside or outside the circle, the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other.

If a straight line is drawn parallel to one side of a triangle, the other two sides are divided proportionally; and the converse.

If two triangles are equiangular, their corresponding sides are proportional; and the converse.

If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles proportional, the triangles are similar.

The internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle, and likewise the external bisector externally.

The ratio of the areas of similar triangles is equal to the ratio of the squares on corresponding sides.

Text-book recommended: Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry.

One examination paper of two hours.

Geometry, Part II.

CONSTRUCTIONS.

To draw the inscribed, escribed, and circumscribing circles of a triangle.

To construct triangles under given conditions.

To divide a given line externally and interally in medial section.

To construct an isosceles triangle, such that each of the base angles is twice the vertical angle.

To describe a regular pentagon.

To construct a polygon similar to a given polygon, and such that their areas are in a given ratio.

To construct a figure equal in area to a given figure A, and similar to another figure B.

THEOREMS.

If two sides of one triangle be equal respectively to two sides of another, that with the greater contained angle has the greater base; and conversely.

If a triangle is such that the square on one side is equal to the sum of the squares on the other two sides, the angle contained by these sides is a right angle.

The three medians of a triangle are concurrent.

Perpendiculars from the angles to the opposite sides of a triangle are concurrent.

The complements of parallelograms about the diagonal of any parallelogram are equal.

If the circumference of a circle be divided into n equal arcs:—

(1.) The points of division are the vertices of a regular polygon of n sides inscribed in the circle.

(2.) If tangents be drawn to the circle at these points, these tangents are the sides of a regular polygon of n sides circumscribed about the circle.

If $OA:OB=OC^2$, OC is a tangent to the circle through ABC.

If two triangles have an angle in each equal, and the sides about two other angles proportional, the remaining angles are equal or supplemental.

The perpendicular from the right angle of a right-angled triangle on the hypotenuse divides the triangle into two triangles which are similar to the original triangle.

The sum of the rectangles contained by the opposite sides of a quadrilateral, about which a circle can be described, is equal to the rectangle contained by its diagonals.

The squares on two sides of a triangle are together equal to twice the square on half the third side and twice the square on the median to that side.

If from the vertical angle of a triangle a straight line be drawn perpendicular to the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base, together with the square on the straight line which bisects the angle.

The areas of two similar polygons are as the squares on corresponding sides.

In a right-angled triangle the rectilineal figure described on the hypotenuse is equal to the sum of the similar and similarly described figures on the other two sides.

If three lines be proportional, the first is to third as the figure on the first is to a similar figure on the second.

If the straight lines joining a point to the vertices of a given polygon are divided (all externally or all internally) in the same ratio, the points of division are the vertices of a similar polygon.

Two similar polygons may be so placed that the lines joining corresponding points are concurrent.

Triangles of equal altitude are as their bases.

In equal circles, angles, whether at the centres or circumferences, are proportional to the arcs on which they stand.

If P is any point on the circumscribing circle of a triangle, ABC, and PL, PM, PN are perpendicular to BC, CA, AB, respectively, LNM is a straight line.

A point P moves so that the ratio of its distances from two fixed points, Q and R, is constant; prove that the locus of P is a circle.

AREAS.

Area of a circle.

Area of a sector of a circle.

Area of a segment of a circle.

USE OF SQUARED PAPER.

Marking points.

Finding areas of rectilinear and curvilinear figures.

Examples of plotting loci; in particular, the ellipse, hyperbola, and parabola.

Examples of loci and envelopes.

DEDUCTIONS AND APPLICATIONS.

Deductions from and simple applications of the constructions and theorems given above.

Text-book: Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall aand Stevens' School Geometry.

One examination paper of two hours.

Trigonometry.

Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I. to XII., Hall and Knight's Trigonometry, Chaps. I. to XII., inclusive, omitting Chap. V.; or as in similar text-books.

One examination paper of an hour and a half.

Botany.

Text-books recommended: Bergen's and Davis's Principles of Botany, or Atkinson's Elementary Botany.

One examination paper of an hour and a half.

Chemistry.

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements, and their more important compounds, the laws of chemical action, combining weight, etc. The ground is simply and effectively covered by Remsen's " Elements of Chemistry," pages 1 to 165 and 218 to 243. (Macmillan's Edition.)

One examination paper of an hour and a half.

Physics.

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-books recommended: Gage's Introduction to Physical Science, 1902 edition (Ginn & Co.), Chaps. I. to IV., inclusive; or " Physics," by Mann & Twiss, Revised Edition (Educational Book Co., Toronto).

One examination paper of an hour and a half.

For Senior Matriculation.

English.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination, it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Carpenter's Rhetoric and English Composition (Macmillan) and English Composition, by Latham and Macmillan (Educational Book Co.), are recommended as suitable text-books.

Literature.—The examination will be based on the following texts: Chaucer's Prologue to the Canterbury Tales; Spenser's Færie Queene, Book I., Cantos 1 and 2; Shakespeare's Macbeth and As You Like It; Milton's Minor Poems (L'Allegro, Il Penseroso, Lycidas, and Comus); and Bunyan's Pilgrim's Progress, Part I.

Candidates will also be expected to read Long's English Literature (Ginn & Co.), Chaps. I. to VII., inclusive, with especial emphasis on the portions most closely connected with the foregoing list of books.

History.

Introduction to European History.—The course starts with the ancient world at about 1000 B.C., and covers the period of European civilization to the beginning of the Mediæval period. Stress will be laid upon the historical geography of this period and candidates should provide themselves with Putzger's Historischer Schul-Atlas.

The examination will be based on the following texts: Sanderson, Ancient Oriental Monarchies; Cox, Greeks and Persians; Curteis, Rise of the Macedonian Empire; Botsford, History of Rome; Adams, Civilization in the Middle Ages, Chaps. I. to V.; Plutarch's Lives (The Lives of Themistocles,

Pericles, Pyrrhus, Caius Gracchus, Cato the Younger, and Julius Cæsar; Clough's translation).

Latin.

Authors.—Virgil, Georgics IV. (Page, Macmillan); Winbolt and Merk's Roman Life Reader (Constable), pages 20 to 63.

Prose and Unseen.—A higher standard will be required than for ordinary matriculation. Books suggested: Mitchell's Latin Composition (Macmillan's Canadian School Series); Rivingtons' Class Books of Latin Unseens, Book IV. (Rivingtons, London).

Roman History.—Outlines to 133 B.C. Book recommended: Botsford, History of Rome (Macmillan), Chaps. I. to VI.

Grammar.—New Latin Grammar by Sonnenschein (Clarendon Press, 1912. N.B.—Note the exact title), pages 178 to 211.

Greek.

Abbott & Arnold's Greek Prose Composition to Exercise 36.

Allen's Elementary Greek Grammar to page 101.

Peacock & Bell's Passages for Greek Translation to end of page 15. Thucydides, the Rise of the Athenian Empire (Culsen, Macmillan's Elementary Classics).

French.

Vreeland & Koren, French Syntax and Composition (Holt); Super, Histoire de France (Holt); Maupassant, Huit Contes Choisis (Heath); Lemaitre, Contes extraits de Myrrha (Heath); Labiche, La Grammaire (Heath); Daudet, Selected Stories (A. B. Co.); Milhau, Choix de Poésies (Le meunier, son fils et l'âne, Oceano Nox, La mort du loup, La nuit de mais, Les yeux); Dumas, Napoléon, including the passages for translation into French (Macmillan).

German.

Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Moscher, Wilkommen in Deutschland (Heath); Baker's German Stories (Holt); Freytag, Die

Journalisten (Ginn); Collmann, Easy German Poetry (Ginn); Notes on the History of Germany; Horning, German Composition.

Mathematics.

Plane and Solid Geometry.—The equivalent of Books IV., VI., and XI. of Euclid, with supplementary matter from Hall and Stevens' Euclid.

Algebra.—Hall and Knight's Elementary Algebra (omitting Chaps. 40 to 42, inclusive), or the same subject-matter in similar text-books.

Trigonometry.—Hall and Knight's Elementary Trigonometry to page 210 and Chap. 19; nature and use of logarithms (Bottomley's four-figure tables).

Physics.

A general knowledge of the more important principles of elementary physics will be required.

Text-book: College Physics, by Reed and Guthe (Macmillan), omitting articles with asterisks and the following chapters: 6, 8, 10, 23, 27, 39, 46, 47, 48, 56, 57, 58, 59, 60, 62, 64.

II. ADMISSION TO ADVANCED STANDING.

A student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a Calendar of the University in which he had previously studied, together with a complete statement of the course he has followed and a certificate of the standing gained therein.

The Faculty, if otherwise satisfied, will decide what examination, if any, or what other conditions may be necessary before admitting the candidate.

III. AGE OF ADMISSION.

Except under special circumstances, no student under the age of sixteen is admitted to the first-year courses in Arts or Applied Science, or under the age of seventeen to the second year.

REGISTRATION AND ATTENDANCE.

I. Registration.

Between September 21st and September 25th, both dates inclusive, students may register for the Session 1915-16 at the office of the Registrar. Monday, September 27th, will be special registration day for all students. Lectures will commence on Tuesday, September 28th. The complete regulations regarding registration are as under:—

1. Candidates entering on a course of study in any Faculty, whether as undergraduates, conditioned students, or partial students, are required to attend at the office of the Registrar, some time during the week preceding the opening day of the session, in order to furnish the information necessary for the University records, to register for the particular classes which they wish to attend, and to sign the following declaration in the matricula or register:—

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

2. Students who have been previously enrolled shall register not later than the day immediately before the opening day of Lectures.

3. Students who for any reason have failed to register at the times specified above will be permitted to do so within a limited time thereafter. Those who do not register by Tuesday, September 28th, will be allowed to do so thereafter only when they have paid a fee of $2 for late registration.

4. The Registrar is empowered to register all students whose records show that they are entitled to attend the classes applied for. To enable him to determine this, new students must present certificates at time of registration. All doubtful cases shall be dealt with by the Faculty.

5. The names of those who have registered for separate classes shall be sent by the Registrar to the Instructors on registration day and subsequently, as new names are received, and only those for whom cards have been received by an Instructor shall be admitted to his class; except in the case of students whose standing cannot be determined at the time of registration. To these special tickets will be issued, which will give them the right of admission to classes until such time as their status is ascertained.

6. Students desiring to make a change in their choice of studies must make application to the Registrar. This application must be approved by the Dean, whereupon due notice will be sent by the Registrar to all parties concerned. No change in registration will be allowed, except under special circumstances, after the fifteenth day of the session.

7. Persons who wish to pursue courses in the University without a view to qualifying for a degree shall be classified as partial students and shall not be admitted to any course until they have obtained the permission of the Instructor concerned. Their application must then be approved by the Faculty.

8. In the Faculty of Arts, where there is a choice of courses, students in attendance shall be required to choose their electives for the next year before the close of the preceding session, or (in cases where this cannot be done) not later than one week before the opening of the session.

II. Attendance.

1. Students are required to attend at least seven-eighths of the total number of lectures in any one course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course shall not be permitted to come up for the examination in that course; and, in the Faculty of Applied Science, those whose unexcused absences exceed one-fourth of the total number of lectures in any course must repeat the work in that course.

Excuses on the ground of illness or domestic affliction shall be dealt with only by the Dean. *Medical certificates must be presented immediately on return to University work.*

2. A record shall be kept by each professor or lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class-room or laboratory.

4. The following special regulations with regard to marking the attendance of students have been adopted:—

Lectures will commence on the hour, or at the conclusion of the roll-call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Instructor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will count as one absence. Lectures end at five minutes before the hour.

CLASSES OF STUDENTS.

There are three classes of students:—

(1.) Undergraduates—students who have passed the matriculation examination and, in the case of second and third year students, all the examinations of their course in the years below that in which they are registered.

(2.) Conditioned undergraduates—those with defective entrance qualifications or who have failed in one or more of the subjects of their course in the year previous to that in which they are registered.

(3.) Partial students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study. Except as provided below, such students may (subject to the approval of the Head of the Department and the Dean or the Committee appointed for this purpose) attend any class without previous examination.

In order to obtain admission to the first-year class in French, intending students must have passed the University matriculation examination, or an equivalent examination, in that subject.

FEES.

General Regulations.

1. Fees shall be paid to the Registrar in two payments on or before October 9th and January 9th. After these dates an additional fee of $2 will be exacted of all students in default.

2. Immediately after October 19th the Registrar shall send to the Instructors a list of the students applying for a course who have not paid their fees, on receipt of which their names shall be struck from the registers of attendance, and such students cannot be readmitted to any class except on presentation of a special ticket, signed by the Registrar, certifying to the payment of fees.

Students registering after October 19th shall pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 2.

Students should note that this regulation applies to parts of a course such as History, Composition, etc., in which separate examinations are held.

All students are required to pay a registration fee annually of $10.

Special Fees.

Supplemental examinations in any subject or any part of a subject, $5.

A deposit of $5 as caution-money is required from each student. The deposit is returned at the end of the session, after deductions have been made to cover breakages, wastage, and use of special materials in laboratories, etc. In case the balance of the deposit remaining to the credit of a student falls below $1.50, a second deposit of $5 may be required.

In the interest of the student body and by the authority of the Board of Governors of the University, $2 additional will be exacted from all students for the support of the Student Activities Association.

A graduation fee of $20 will be required.

PRIZES, MEDALS, AND SCHOLARSHIPS.

1. General Proficiency Scholarships are open to candidates in both the Faculties of Arts and Applied Science.

2. No scholarship, medal, or prize will be awarded to any candidate who has failed to take 75 per cent. of the marks obtainable in the subject or subjects to which the award is attached.

3. No candidate will be permitted to hold more than one scholarship, but any one who would but for this provision have been entitled to a second scholarship will have his name published in the lists.

4. When the scholarship cannot be awarded for this reason to the candidate obtaining the highest number of marks, it will be granted to the candidate ranking second, provided the requisite number of marks has been obtained.

5. All winners of scholarships must sign a declaration of intention to proceed to a degree in this University, and must attend lectures for the academic year immediately following the award. The Faculties may, upon satisfactory reasons being shown, permit a scholar to postpone attendance for a year. If at the end of a year a further postponement is necessary, special application must again be made. In every such case the payment of scholarship will be postponed in like manner.

6. The scholarships will be paid in three instalments during the session following their award, on the 15th of November, the 15th of January, and the 15th of March, and each scholar is required to send to the Registrar a certificate of attendance upon lectures at least three days before the date of each payment.

7. Scholarships, medals, and prizes will be awarded at the close of the session, and in case of matriculation examinations, after the June examination.

For 1916 the following scholarships, prizes, and medals will be offered:—

ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING OF BRITISH COLUMBIA SCHOLARSHIPS.

JUNIOR MATRICULATION SCHOLARSHIPS.

Seven General Proficiency Scholarships will be awarded on the result of the Junior Matriculation Examinations, 1916.

A. One of $150 to be awarded to the British Columbia candidate for matriculation who obtains the highest standing.

B. Six of $100 each, one for each of the following districts, to be awarded to the candidate from each of such districts who obtains the highest standing among the candidates from the district:—

(1.) Victoria District.
(2.) Vancouver Island (exclusive of Victoria District) and Northern Mainland.
(3.) Vancouver District.
(4.) Fraser Delta (exclusive of Vancouver District, but including Agassiz).
(5.) Yale.
(6.) Kootenays.

UNIVERSITY SCHOLARSHIPS.

Four scholarships of $75 each will be awarded for general proficiency in the work of the first year.

THE RHODES SCHOLARSHIP.

In addition to the above Royal Institution for the Advancement of Learning of British Columbia Scholarships, the University will award the Rhodes Scholarship assigned by the trustees of the late Mr. Cecil J. Rhodes to the Province of British Columbia.

The following are excerpts from the regulations laid down by the trustees:—

The election of scholars in Canada under the Rhodes bequest will take place each year during the month of January. The scholars will begin residence at Oxford in October of the year for which they are elected.

Each scholarship is tenable for three years, and is of the value of £300 per annum.

Candidates shall be British subjects and unmarried. They must have passed their nineteenth but not their twenty-fifth birthday on October 1st of the year for which they are elected.

An elected scholar must have reached at least the end of his sophomore or second year's work at some recognized degree-granting university or college of Canada.

Candidates may elect whether they will apply for the scholarship of the Province in which they have acquired any considerable part of their educational qualification, or that of the Province in which they have their ordinary private domicile, home, or residence. They must be prepared to present themselves for examination or election in the Province they select. No candidate may compete in more than one Province, either in the same or in successive years.

Only candidates who have passed an equivalent to the Oxford Responsions examination or those who are exempted from Responsions by the Colonial Universities' Statute are eligible for election.

In accordance with the wish of Mr. Rhodes, the trustees desire that " in the election of a student to a scholarship regard shall be had to (i) his literary and scholastic attainments; (ii) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (iii) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness, and fellowship; and (iv) his exhibition during school-days of moral force of character and of instincts to lead and to take an interest in his schoolmates." Mr. Rhodes suggested that (ii) and (iii) should be decided in any school or college by the votes of fellow-students, and (iv) by the head of the school or college.

Additional information will be furnished to intending candidates on application to the President of the University.

PRIZES AND MEDALS.

Medals and prizes in books will be awarded to those graduating students who in the opinion of the Faculty merit this distinction.

LOAN FUND.

A fund is provided from which a loan not to exceed $100 may be made to a deserving student who is in need of pecuniary assistance. Application for such a loan will be addressed to the President on a form which will be supplied by the Registrar.

INFORMATION FOR STUDENTS IN ARTS.

COURSES LEADING TO THE DEGREE OF B.A.

The degree of B.A. is granted only after four sessions of class-work from Junior Matriculation, but students who enter with Senior Matriculation may complete their courses in three years.

Three courses of study are offered leading to this degree: A. Classical. B. Modern. C. Scientific.

In addition, there is a double course of six years leading to the degree of B.A. and B.Sc. (Applied Science).

The curriculum, as laid down in the following pages, may be changed from time to time as deemed advisable by the Faculty.

FIRST YEAR.

Classical.	Modern.	Scientific.
(*a.*) English, 1, and History, 1.	(*a.*) English, 1, and History, 1.	(*a.*) English, 1, and History, 1.
(*b.*) Mathematics, 1 (Algebra, Geometry, and Trigonometry).	(*b.*) Mathematics, 1 (Algebra, Geometry, and Trigonometry).	(*b.*) Mathematics, 1 (Algebra, Geometry, and Trigonometry).
(*c.*) Physics, 1.	(*c.*) Physics, 1.	(*c.*) Physics, 1.
(*d.*) Greek, 1; *or* Latin, 1.	(*d.*) French, 1.	(*d.*) French, 1; *or* German, 1.
(*e.*) Greek, 1; *or* Latin, 1; *or* French, 1; *or* German, 1.	(*e.*) German, 1.	(*e.*) Chemistry, 1; *or* Mineralogy, 3.

SECOND YEAR.

Classical.	Modern.	Scientific.
(*a.*) English, 2. (*b.*) Latin, 2; *or* Greek, 2. (*c.*) Greek, 2; *or* Latin, 2; *or* French, 2; *or* German, 2. (*d.*) History, 2, and Economics, 1; *or* Philosophy, 1, 2; *or* Mathematics, 2; *or* Chemistry, 1; *or* Physics, 2; *or* Geology, 2; and Physical Geography, 1; *or* Mineralogy, 3.	(*a.*) English, 2. (*b.*) French, 2. (*c.*) German, 2. (*d.*) History, 2, and Economics, 1; *or* Philosophy, 1, 2; *or* Mathematics, 2.	(*a.*) English, 2. (*b.*) French, 2; *or* German, 2; and any two of the following: Mathematics, 2; Chemistry, 1 *or* 2; Physics, 2; Geology, 2, and Physical Geography, 1; Mineralogy, 3.

THIRD AND FOURTH YEARS.

(*a.*) English, 4. (*b.*) One of: Latin, 3; Greek, 3. (*c.*) One of: Latin, 3; Greek, 3; French, 3; German, 3. (*d.*) One of the languages chosen from (*b*) for the Third Year must be continued in the Fourth Year. (*e.*) Three courses chosen from the following list:—	(*a.*) English, 4. (*b.*) French, 3. (*c.*) German, 3. (*d.*) English, 3. (*e.*) Either (*b*) or (*c*) continued in the Fourth Year. (*f.*) Two courses chosen from the following list:—	(*a.*) English, 4. (*b.*) Three of: Physics, 2; Physics, 3; Mathematics, 3, and Physics, 4; Chemistry, 1 *or* 2 *or* 3; Geology, 1, 2; Mineralogy; Bacteriology; Agriculture. (*c.*) One of the sciences chosen for the Third Year continued in the Fourth Year. (*d.*) Two courses chosen from the following list:—

English, 3; Latin, 3; Greek, 3; French, 3; German, 3; History, 2, and Economics, 1; Philosophy, 1 and 2; Philosophy, 3; Philosophy, 4; Physics, 2; Physics, 3; Mathematics, 2; Chemistry, 1; Chemistry, 2; Chemistry, 3; Geology, 1 and 2; Mineralogy; History, 3 (half course); Economics, 2 (half course); Mathematics, 3 (half course); Physics, 4 (half course); Geology, 1 (half course); Geology, 2 (half course); Bacteriology (half course); Agriculture (half course).

In the Classical and Modern Courses one subject must be chosen from the Scientific group, except in the case of students who have already taken a science option in the second year. In the Scientific Course one subject at least must be chosen from subjects other than scientific.

EXAMINATIONS IN ARTS.

1. There are two examinations in each year—viz., at Christmas and at the end of the session. Successful students are arranged in three classes at the sessional examinations. Those who obtain 75 per cent. and over are placed in the first class, those who have between 60 and 75 per cent. in the second class, and those with from 40 to 60 per cent. in the third class.

Christmas examinations will be held in all subjects, and are obligatory on all undergraduates, and also on all partial students, unless they have been specially exempted. Partial students of the first year who fail in the Christmas examinations will not be allowed to continue their course, except under special circumstances and with the consent of the Faculty.

Undergraduates and conditioned undergraduates who fail in more than two subjects at the Christmas examinations will be allowed to attend not more than three courses after Christmas as partial students, for each of which they must obtain the permission of the Faculty.

No course or courses can be counted towards a degree or diploma in the Faculty of Arts, except such as have been taken and passed after the matriculation requirements have been satisfied, and according to the regulations governing the various years of the undergraduate course.

Twenty-five per cent. of the marks given for the sessional work in each subject will be assigned to the Christmas examinations.

Students prevented by illness from attending the Christmas examinations will, on presenting a medical certificate, be given sessional standing on the results of the April examinations, if they have obtained an average of 40 per cent. at the two mid-term examinations, or (where no mid-term examinations are given) an average of 40 per cent. in class exercises. Christmas examinations in the third and fourth years may be held at the option of the professors. When held, the same value will be assigned to them as in the case of the first and second years.

2. The following are the regulations for advancement to the second, third, and fourth years of the undergraduate course:—

Advancement to the Second Year.—A student who has failed to complete one of the ordinary courses of the first year may enter the second year without special permission of the Faculty, but may not continue in the second year the subject in which he has failed to make good his standing, except in the cases of compulsory subjects for the second year.

Advancement to the Third Year.—A student may be allowed to proceed to the third year with one subject uncompleted if that subject belongs to the second year, but he may not continue the subject in which he has failed to make good his standing.

Advancement to the Fourth Year.—A student may be allowed to proceed to the fourth year with one subject uncompleted if that subject belongs to the third year.

Repeating Year.—By special permission of the Faculty, a student who is required to repeat his year may, on application in writing,—

(*a.*) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed:

(*b.*) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following year of his course.

3. Examinations supplemental to the sessional examinations will be held in September, simultaneously with the matriculation examinations. The time for each supplemental examination will

be fixed by the Faculty; the examination will not be granted at any other time, except by special permission of the Faculty, and on payment of a fee of $5.

4. A list of those to whom the Faculty has granted supplemental examinations in the following September will be published after the sessional examinations.

DOUBLE COURSES.

Arts and Applied Science.

Students who wish to obtain the degrees of B.A. and B.Sc. (Applied Science) in six years will spend the first three years in Arts, but must take certain classes in Applied Science during the second and third years. The student will then enter the Faculty of Applied Science and devote the remaining three years entirely to the work of this Faculty.

All students in the first and second years of the double course must, on the 31st of March, notify the Registrar that they intend to take or are taking this double course.

The subjects which they are required to take each year in the Faculty of Arts are as follows:—

FIRST YEAR.

English, 1, and History, 1.
Mathematics, 1.
Physics, 1.
French, 1; *or* German, 1.
Latin, 1; *or* Greek, 1; *or* French, 1; *or* German, 1.

SECOND YEAR.

English, 2.
Mathematics, 2 (ordinary, supplemented by the regular courses on Spherical Trigonometry and on Dynamics, Statics, and Hydrostatics of the First Year Applied Science).
French, 2; *or* German, 2.
Latin, 2; *or* Greek, 2; *or* French, 2; *or* German, 2; *or* History, 2, and Economics, 1; *or* Philosophy, 1, 2.
Shop-work (moulding and smith-work).

THIRD YEAR.

English, 4.

Physics, 3.

Any two of the following: English, 3; Latin, 3; French, 3; German, 3; History, 3, and Economics, 2; Philosophy, 5, 6; Bacteriology and Agriculture.

Descriptive Geometry (Applied Science).

Shop-work (wood-working). Mechanical Drawing. Freehand Drawing to be taken during their Second Year in Science.

COURSES OF LECTURES IN ARTS.

Department of Agriculture.

Professor—Leonard S. Klinck, M.S.A.

THE SCIENTIFIC BASIS OF AGRICULTURE.

This course has been designed to familiarize the student with the basic principles underlying scientific agriculture. Three lectures per week during Fall term.

Bacteriology.

The President.

A course of General Bacteriology consisting of lectures, demonstrations, and practical laboratory work.

The history of bacteriology, the place of bacteria in nature, the classification of bacterial forms, methods of culture and isolation, and various bactericidal substances and conditions will be studied.

Seven hours per week, including laboratory work during the second term.

Department of Chemistry.

Professor—D. McIntosh, M.A., D.Sc., F.R.S.C.
Assistant Professor—E. H. Archibald, M.A., Ph.D., F.R.S.E.

1. *General Chemistry.*—This course is arranged to give a full exposition of the general principles involved in modern chemistry, and comprises a systematic study of the properties of the more important metallic and non-metallic elements and their compounds, and of the applications of chemistry in technology.

Three lectures and two laboratory periods of two hours weekly.

Book recommended: Smith's General Inorganic Chemistry.

2. *Qualitative and Quantitative Analysis.*

(*a.*) *Qualitative Analysis.*—A course consisting of one hour of lecture or recitation and six hours of laboratory work each week throughout the first term. During the first six weeks of the term an additional hour of lecture or recitation may be substituted for a part of the laboratory work.

(*b.*) *Quantitative Analysis.*—A course consisting of one hour of lecture or recitation and six hours of laboratory work each week throughout the second term. The course embraces the more important methods of gravimetric and volumetric analysis.

Course (*b*) must be preceded by Course (*a*).

Books recommended: Noyes' Qualitative Analysis; Cumming and Kay's Quantitative Analysis.

3. *Organic Chemistry.*—This introduction to the study of the compounds of carbon will include the methods of preparation and a description of the properties of the more important groups and compounds in both the fatty and the aromatic series. Two lectures and one laboratory period of three hours weekly.

(No. 3 will only be given to those students taking No. 2, or those who have had the equivalent of No. 2.)

Books recommended: Remsen's Organic Chemistry; Orndorff's Laboratory Manual.

4. *Theoretical Chemistry.*—An introductory course on the development of modern chemistry, including osmotic phenomena, the ionization theory, the law of mass action, and the phase rule.

Two lectures a week during the second term.

Text-book: James Walker. Introduction to Physical Chemistry.

Department of Classics.

Professor—
Associate Professor—Lemuel F. Robertson, M.A.
Assistant Professor—R. E. Macnaghten, M.A.
Instructor—H. T. Logan, B.A.

GREEK.

All students taking a Greek course are recommended to provide themselves with Allen's Elementary Greek Grammar; Liddell & Scott's Greek Lexicon (Abridged); Classical Atlas (Everyman Series); Smith's Smaller Classical Dictionary (Everyman Series).

FIRST YEAR.

1. *Lectures.*—White's First Greek Book. Towards the end of the session selected easy passages will be read to accustom the students to reading continued prose. Greek History, 479-404 B.C.; Bury's Greek History (Second Edition, 1913), Chaps. viii.-xi. Four hours a week.

SECOND YEAR.

2. *Summer Reading.*—Greek History, 479-404 B.C.; Bury's Greek History, Chaps. viii.-xi.

Lectures.—Plato Apology (Edited by Adam, Cambridge Press); Aeschylus, Prometheus Vinctus (Edited by H. Rackham, Cambridge Press); Composition, North and Hillard; Greek Prose Composition (Rivingtons). Selected passages will be occasionally set for Unseen Translation. Four hours a week.

THIRD AND FOURTH YEARS.

3. *Summer Reading.*—Greek History, 404-323 B.C.; Bury's Greek History (Second Edition, 1913), Chaps. xii.-xvii.

Lectures.—Thucydides ii. (Marchant, Macmillan), Sophocles, Philoctetes (Jebb & Shuckburgh, Cambridge Press), Aristophanes Knights (Neil, Cambridge Press).

A course of twelve hour lectures will be given on some period of Greek History or Literature, or on some aspect of Greek Life or Thought. Composition: North & Hillard's Greek Prose Composition (Rivingtons). Unseen Translation: Fowler's Sportella (Longmans). Four hours a week.

LATIN.

All students taking Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an Atlas of Ancient Geography. The follow-

ing are recommended: New Latin Grammar by Sonnenschein (Clarendon Press, 1912. N.B.—Note the exact title); Lewis' School Dictionary, *or* White's Junior Students' Latin-English Dictionary; "Everyman" Classical Atlas (Dent); Smith's Smaller Classical Dictionary ("Everyman" Series, Dent).

FIRST YEAR.

1. *Lectures.*—Four hours a week.

Cicero Pro Lege Manilia (Nicol, Pitt Press); Virgil Aeneid iii. (Page, Macmillan); Horace Odes iii. (Page, Macmillan).

Composition.—Latin Composition (Mitchell, Macmillan's Canadian School Series).

Translation at Sight.—Rivingtons' Class Books of Latin Unseens, Book III.

Roman History.—Outlines, to 133 B.C. Book recommended: Botsford, History of Rome (Macmillan), Chaps. I. to VI. N.B.—All students will be examined in this subject.

Grammar.—New Latin Grammar by Sonnenschein (Clarendon Press, 1912; note the exact title), pages 178-211.

Advanced Section.—Cicero. De Amicitia (Reid, Pitt Press), Prose and Unseen Translation. Two hours a week.

SECOND YEAR.

2. *Lectures.*—Four hours a week.

Pro Archia (Reid, Pitt Press); Horace Selected Odes (Wickham, Clarendon Press); Virgil Aeneid iv. (Stephenson, Macmillan).

Authors, Summer Reading.—Roman History, Outlines, from 133 B.C. to 337 A.D. Book recommended: Botsford, History of Rome (Macmillan), Chaps. VII. to XII. N.B.—All students will be examined in this subject.

Composition.—Easy Latin Prose Exercises (Heatley, Longmans).

Grammar.—New Latin Grammar by Sonnenschein (Clarendon Press, 1912. N.B.—Note the exact title), pages 123-178.

Advanced Section.—As in first year.

THIRD AND FOURTH YEARS.

3. *Authors, Summer Reading.*—Roman Empire (Stuart Jones, Story of the Nation Series).

Lectures.—Tacitus Annals i., ii. (Furneaux, Clarendon Press); Juvenal (Duff, Cambridge Press); Pliny, Selections from Pliny's Letters (Westcott, Allyn & Bacon).

Composition.—Latin Prose based on Cæsar (Bryans, Macmillans).

Translation at Sight.—Dalton's Latin Translation for Public School Scholarships (Macmillan).

Department of English.

Professor—
Assistant Professor—J. K. Henry, B.A.

FIRST YEAR.

1. (*a*) Halleck's History of English Literature (American Book Co.), pages 1-261, with the following readings: Chaucer, Prologue to the Canterbury Tales; Spenser, Færie Queene, Book I.; Milton, Comus, two hours a week; (*b*) European History (Adams, Macmillan), pages 53-451, one hour a week; (*c*) Composition one hour a week. Students are required to write essays at stated periods.

SECOND YEAR.

2. *Literature.*—The Romantic Movement of the Eighteenth and Nineteenth Centuries in Prose and Poetry; Victorian Literature, Texts (Everyman's Library mostly), Lamb's "Essays of Elia," DeQuincey's "Confessions," Borrow's "Lavengro," Carlyle's "Sartor Resartus," Macaulay's "Essay on History," George Eliot's "Adam Bede," Stevenson's "Virginibus Puerisque," Poetical selections to be announced. Three hours per week.

Composition.—Fortnightly essays will be required and will be taken into consideration in determining the standing of students at the end of the term. One hour per week.

THIRD YEAR.

3. *Prose Writers before Dryden.*—The main object of the course will be to discuss the chief literary influences visible in the Pre-Restoration writers of English prose and to examine characteristics of style. The subject will be treated chronologically. As the course is largely interpretative and critical, facts of biography will be used only when they illustrate points of moment.

Students will read the following works for examination: More, Utopia (Arber's reprint, or Temple Edition); Ascham, Scholemaster; Sidney, Apologie for Poetry (Ed. Cook, Ginn & Co., or Schuckburgh, Cambridge University Press); Lodge, Rosalynd (Newness, Caxton Series); Bacon, New Atlantis; Earle, Microcosmographie (Temple Ed.); Milton, Areopagitica (Ed. Hales, Clarendon Press).

Students are recommended to have their own copies of the following (Everyman's Library): Mallory, Morte d'Arthur; Bacon's Essays; Brown's Religio Medici; Walton's Compleat Angler.

English Literature (Shakespeare).—This course will begin with a review of the early history of the English drama, and of the conditions which led to its development in the time of Elizabeth. The advances made by the earlier Elizabethan dramatists will be noted, and Shakespeare's methods illustrated by a comparative study of "A Midsummer Night's Dream," "Romeo and Juliet," "Henry V.," "As You Like It," "Hamlet," "King Lear," "Macbeth," and "The Tempest"; the relation of these plays to their sources will also be considered. Students are recommended to read as many of Shakespeare's plays as they can, and the following (published in Everyman's Library): The Plays of Sophocles, Marlowe's Plays, Everyman, Minor Elizabethan Dramatists, 2 vols. Books of reference will be named from time to time.

Two hours a week.

4. *English Composition.*—An advanced course on English Composition, including style, methods, and principles of literary criticism, treated from the historical point of view,

and an introduction to the comparative study of literature in accordance with the most recent results of contemporary thought and research. In connection with this course students will be examined in a course of prescribed readings. Essays at stated periods are required of all. Winchester, Principles of Literary Criticism. One hour a week.

Books of Reference and Authorities.—Saintsbury's History of Criticism; Lessing, Sainte-Beuve, Brunetiere, Arnold, Ruskin, Worsfold.

Department of Geology and Mineralogy.

Professor—Reginald W. Brock, M.A., F.R.S.C.

1. *Physical Geography.*—Three hours per week; lectures and recitations; laboratory and field work as arranged. First term: The land, the atmosphere, and the oceans.

College Physiography, Farr and Martin (Macmillan).

2. *General Geology.*—Three hours per week; lectures and recitations; laboratory and field work as arranged. Second term: The materials of the earth, its structure, and the history of the earth, with its plant and animal inhabitants. The geology of Canada. This course should be preceded by Physical Geography. Elements of Geology, Blackwelder and Barrows (American Book Company).

3. *Mineralogy.*—Two hours lectures and recitations and two hours laboratory per week. An elementary study of the physical and chemical properties of minerals, and the determination of the commoner and more important minerals.

Minerals and How they Occur, Miller (Copp, Clark Co.). Reference: Brush and Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis (Wily & Sons).

Department of History and Economics.

Professor—
Assistant Professor—Mack Eastman, Ph.D.

FIRST YEAR.

History, 1.—Introduction to European history. An elementary course starting with 1000 B.C. and tracing in outline the

development of European civilization to the beginning of the Mediæval period. Stress is laid upon historical geography and upon the method of historical study. Students are required to provide themselves with Putzer's Historischer Schul-Atlas. Short written tests will be given from time to time upon assigned reading, based upon the following: Plutarch's Lives; Sanderson, Ancient Oriental Monarchies; Cox, Greeks and Persians; Curteis, Rise of the Macedonian Empire; Botsford, History of Rome; Adams, Civilization in the Middle Ages, Chapters i.-v.; with additional reading for the Christmas and Spring Examinations. One hour a week.

SECOND YEAR.

History, 2.—A continuation of History, 1, and designed, with it, to complete a general outline of European history. Stress will be laid upon the division of the subject into periods, and an attempt will be made to indicate the essential features of each successive period. Readings will be assigned and tested at intervals by written papers in the class-room. The reading for the course will include: Robinson, History of Western Europe; Adams, Civilization in the Middle Ages; Hamlin, History of Architecture; Selections from Gibbon, Decline and Fall of the Roman Empire; Macaulay's Essays and other works. Two hours per week.

Economics, 1.—Elements of Political Economy. Text-book: Seager's Introduction to Economics, Briefer Course. Two hours per week.

THIRD YEAR.

History, 3.—Modern Europe from the era of the French Revolution to the present day. Two hours per week.

Economics, 3.—History of Economic Thought. Two hours per week.

Department of Mathematics.

Professor—
Associate Professor—G. E. Robinson, B.A.
Instructor—E. E. Jordan, M.A.

FIRST YEAR.

1. *Plane and Solid Geometry.*—As in Hall and Stevens' Geometry. Two hours a week (after Christmas).

Algebra.—Hall and Knight's Elementary Algebra (omitting Chaps. 40-42, inclusive) or the same subject-matter in similar text-books. Two hours a week (before Christmas).

Trigonometry.—Hall and Knight's Elementary Trigonometry to page 210 and Chap. 19; nature and use of logarithms (Bottomley's four-figure tables). Two hours a week throughout the session.

SECOND YEAR.

2. *Geometry.*—(*a*) Solid Geometry, continuation of the first year; (*b*) Geometrical Conic Sections. Wilson's Solid Geometry and Geometrical Conics. Three hours a week (before Christmas).

Algebra.—Permutations and combinations; binomial theorem; exponential and logarithmic series; interest, annuities, and bonds; undetermined coefficients; partial fractions; summation of typical series; probabilities; determinants; graphic methods. Three hours a week (after Christmas).

Text-book: Hall and Knight's Higher Algebra.

Spherical Trigonometry.—A short course compulsory for students proceeding to the Faculty of Applied Science.

THIRD YEAR.

3. *Analytical Geometry* (C. Smith). Two hours a week.

Infinitesimal Calculus (Lamb). Two hours a week.

Department of Modern Languages.

Professor—
Assistant Professor—H. Ashton, B.A., D.Litt.
Assistant Professor—H. Chodat, M.A.
Instructor—Isabel MacInnes, M.A.

A. FRENCH.

FIRST YEAR.

French, 1.—(*a.*) A general outline of French literature in the seventeenth, eighteenth, and nineteenth centuries as illustrated by

authors read. While complete in itself and fairly representative of French genius, this course is intended as an introduction to the further study of French.

(*a.*) Molière, Les Précieuses ridicules.

(*b.*) Beaumarchais, Le Barbier de Séville (Macmillan).

(*c.*) A choice of modern French poetry.

A sound knowledge of the texts prescribed and ability to translate into English will be required. Stress will be laid on the literary, not on the philological character of the works read. Two hours a week.

(*b.*) *French Composition.*—A systematic course of accidence and syntax in view of translation from English into French. To ensure a practical character to this course, the class will be divided into as many sections as will be necessary. One hour a week.

(*c.*) *Phonetics and Conversation.*—The object of this course will be to enable the students to understand lectures delivered in French and to express themselves with some fluency and correctness. Class to be divided into sections. B. Dumville, Elements of French Pronunciation (Dent). One hour a week.

SECOND YEAR.

French, 2.—Summer Readings.—Students entering on their second year are expected to read as holiday task Corneille's Le Cid.

(*a.*) This course will present the same features as Course 1 (First Year), but more developed.

(*a.*) Corneille, Le Cid (Holt); La Fontaine, Fables.

(*b.*) Le Sage, Gil Blas (Heath).

(*c.*) Musset, Selection (Ginn); Flaubert, Salammbô (Oxford University Press). Two hours a week.

(*b.*) *French Composition.*—More attention will be paid to aptness of word and style than to the syntactical peculiarities of the language. One hour a week.

(*c.*) Conversational class based on the reading of modern prose and poetry. One hour a week.

THIRD AND FOURTH YEARS.

French, 3.—The courses will consist mainly in the study of French literature and advanced prose composition.

Summer Readings for students entering on the third or fourth year: Racine, Britannicus; Molière, L'Avare.

The examination on summer readings will be held in the first week of the session.

(*a.*) *Literature in the Eighteenth and Nineteenth Centuries.*—Lesage, Gil Blas (Heath and Co.); Marivaux, Le Jeu de l'Amour et du Hasard; Buffon, Discours sur le Style; Diderot, Selections (Heath); Sedaine, Le Philosophe sans le savoir; J. J. Rousseau, Selections; Voltaire, Zäire.

Victor Hugo, Ruy Blas; Musset, Selections (Ginn and Co.); Balzac, Eugénie Grandet; A. Chénier, Chefs-d'œuvre lyriques (Gowan's Internat. Library); Flaubert, Trois Contes; Modern French Lyrics (Heath); Dumas, L'Etrangère; Doumic, Histoire de la Littérature Française.

(*b.*) *Prose Composition.*—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London).

N.B.—In order to be admitted to the third-year French a student must know the language well enough to take lectures delivered therein, and be able to express himself in French with some fluency and correctness.

Four hours weekly.

B. GERMAN.

BEGINNERS' COURSE.

Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Müller and Wenckebach, Glück Auf (Ginn); Nichols, Easy German Reader (Holt).

Four hours weekly.

Students intending to proceed to the second year will be required to take a supplemental examination in September covering the rest of the grammar and the texts prescribed for the summer readings of the second year (*see* below). This examination will take the place of the summer readings examination.

FIRST YEAR.

1. Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Moscher, Wilkommen in Deutschland (Heath); Baker's German Stories (Holt); Freytag, Die Journalisten (Ginn); Collmann, Easy German Poetry (Ginn); Horning, German Composition.

Four hours weekly.

SECOND YEAR.

2. *Summer Readings* for students entering on their second year: Riehl, Die vierzehn Nothelfer (American Book Co.); Moser, Der Bibliotheker (Heath).

The examination on summer readings will be held in the first week of the session.

Sessional Lectures.—Horning, German Composition; Schiller, Jungfrau von Orleans (Holt); Scheffel, Trompeter von Säkkingen (Heath); Gœthe, Egmont (Ginn); Keller, Bilder aus der Deutschen Literatur (American Book Co., edition 1905).

Four hours weekly.

THIRD AND FOURTH YEARS.

3. *Summer Readings* for students entering on their third or fourth year: Grillparzer, Der Traum ein Leben (Heath); Schiller, Die Piccolomini.

The examination on summer readings will be held in the first week of the session.

Sessional Lectures.—For 1915-16: Lessing, Nathan (American Book Co.); Gœthe, Iphigenie (Pitt Press); Schiller, Wallenstein's Tod; Hebbel, Herodes und Mariamne (Holt); Keller, Zwei Novellen (Oxford German Series); History of Literature (Gœthe) and the Nineteenth Century (Kluge).

Prose Composition.—Wiehr, Graded Exercises in German Prose Composition (Oxford University Press).

Four hours weekly.

Department of Philosophy.

Professor—
Assistant Professor—James Henderson, M.A.

SECOND YEAR.

1A. *Elementary Psychology.*

1B. *Logic.*—A course in the elements of logic, including the fallacies. Fortnightly exercises.

Text-book: S. H. Mellone, Introductory Text-book of Logic (fourth edition), omitting section 5, Chap. IV., and Chaps. IX. and XI. Use will be made of Lafleur's Illustrations of Logic.

2. *Introduction to Philosophy.*—A general introductory course for students, both inside and outside the philosophical department. It will begin with some ten to twelve lecture-talks (two weekly at some convenient afternoon hour) upon the nature of philosophy, its meaning to mankind and to human culture, its place as a university study, etc. Any students who wish (for proper reasons) to content themselves with this preliminary study will be free to leave the course at this stage. Thereafter the course will be continued for one or two hours a week for the benefit of those looking forward to a more thorough, or detailed, study of philosophy in the later years. An outline treatment will be given of the main schools and divisions of philosophical thought, and some of the main problems of philosophy, e.g., the idealistic and realistic views of the nature of reality, the critical philosophy, the problem of knowledge, the problem of ideals and conduct, determinism, freedom, etc.

This course will not begin until about the end of October or the beginning of November, and an announcement regarding it will be posted after the work of the year has been begun.

Two hours weekly for five or six weeks, and then one or two hours weekly.

THIRD YEAR.

3A. *Moral Philosophy.* — Outlines of ethics as a science; morality in the race and in the individual; the postulates and divisions of ethical science; theories of conscience and of the moral standard; the ethics of idealism and the ethics of evolution.

3B. *Applied Ethics.*—Ethics and the sociological movement of recent times; the ethics of the social questions; the duties and the virtues and the unity of the moral life; moral pathology; moral training; the ethical problem of the present time.

4A. The development of Philosophy from Descartes to Kant and Green.

4B. A discussion of modern theories: Naturalism, Idealism, Pragmatism, etc.

(This course is under consideration and will not be given unless called for by a sufficient number of students.)

Department of Physics.

Professor—Howard T. Barnes, D.Sc., F.R.S.
Associate Professor—James G. Davidson, B.A., Ph.D.
Instructor—B. L. Silver, B.A.

1. This course has two objects: (1) To give the minimum acquaintance with physical science requisite for a liberal education to those whose studies will be mainly literary; (2) to be introductory to the courses in chemistry and other branches of natural science, and to the more detailed courses in physics in the third and fourth years. Only the most important principles in each branch of the subject will be treated, as far as possible, with reference to their historical development and mutual relations. Two lectures will be given per week which will be fully illustrated by experiments. During the session each student will be required to attend in the laboratory and make measurements involving the use of the following instruments: Balance, pendulum, barometer, thermometer, sonometer, telescope, microscope, tangent galvanometer, Wheatstone's Bridge.

Text-book: Ontario High School Physics, and Laboratory Manual.

2. *Heat, Sound, and Light* (Full Course).—Lecture course, two hours per week, in conjunction with a laboratory course of three hours per week.

Text-books: Deschanel's Heat, Sound, and Light, Draper's Advanced Heat, and Laboratory MSS.

3. *Electricity and Magnetism.*—Lecture course, two hours per week, in conjunction with a laboratory course of three hours per week.

Text-books: Brooks and Poyser, Electricity and Magnetism (Macmillan), and Laboratory MSS.

4. *Mechanics.*—An elementary course in dynamics, statics, and hydrostatics. First and second terms.

Text-book: Loney's Mechanics and Hydrostatics for Beginners (Cambridge University Press).

COLLEGE OF APPLIED SCIENCE.

INFORMATION FOR STUDENTS IN APPLIED SCIENCE.

Instruction in this Faculty will be given in first, second, and third year work. The work of the first two years is largely in mathematics and pure science, giving a foundation for specialization in the various branches of engineering in the third and fourth years of a B.Sc. Course.

As McGill University College carried on work in Applied Science to the end of the second year only, the third year work added for 1915-16 will enable all students to proceed with their course toward the degree.

In the third year four courses are offered:—

(I.) Chemistry.
(II.) Chemical Engineering.
(III.) Civil Engineering and Surveying.
(IV.) Mining.

The regular work of each session in Applied Science will end about the first of May, at the close of the sessional examinations. The summer work will be taken during the month of September.

GENERAL OUTLINE OF COURSES.

The curriculum, as laid down in the following pages, may be changed from time to time as deemed advisable by the Faculty. The work prescribed for the first year is the same in all courses. The first two years of the engineering courses (II. to IV.) are

mainly devoted to mathematics, mechanics, physics, chemistry, drawing, and shop-work, as it is considered necessary that students in these courses should master the general principles underlying scientific work before commencing the subjects of the professional courses proper.

FIRST YEAR.

Subject.	FIRST TERM.		SECOND TERM.		See Page.
	Lectures per Week.	Laboratory Hours per Week.	Lectures per Week.	Laboratory Hours per Week.	
Mathematics, I.	8	....	8	....	93
Descriptive Geometry, I.	2	4	2	4	84
English, I.	2	....	2	....	92
Drawing, I. and II.	....	6	....	....	85
Mechanical Drawing, I.	....	3	....	3	89
Mechanics, I.	2	....	2	....	95
Physics, I.	2	3	2	3	95
Shop-work, I., II., III.	....	6	....	6	90

All undergraduate students of the first year who at the close of the first term have failed to obtain an average of 33 per cent. in the following five subjects, viz.: Mechanics, geometry, algebra, physics, and descriptive geometry, will be required to withdraw from the Faculty.

Any other student whose record is found to be unsatisfactory may at any time be required to withdraw from the Faculty.

1. *Summer Work.*—All undergraduates entering the second year—except those taking the Chemistry Course (Course I.)—are required to be in attendance at the Surveying School on the 30th of August, when the field-work in surveying and geodesy will commence. (*See* page 87.)

English, VI., Summer Reading.—All students entering the second year will be required to read the following English Classics:—

Southey's "Life of Nelson."
Lamb's "The Essays of Elia."
Kingsley's "Hereward the Wake."
Dickens' "David Copperfield."
George Eliot's "Adam Bede."
} Everyman's Library.

All students will be required to pass an examination in the summer reading at the opening of the session. A maximum of 100 marks will be allowed for this reading.

SECOND YEAR.

Subject.	First Term.		Second Term.		See Page.
	Lectures per Week.	Laboratory Hours per Week.	Lectures per Week.	Laboratory Hours per Week.	
Mathematics, II.	6	....	3	....	94
Chemistry, I.	3	4	3	4	83
General Engineering, I.	1	....	1	....	85
Structural Engineering, I.	....	....	....	3	86
Mechanical Drawing, II.	....	3	....	3	89
Mechanics, II.	....	....	3	....	95
Mechanical Engineering, I.	3	....	3	....	88
Physics, II.	2	3	2	3	95
Shop-work, IV., V.	1	3	1	3	90
Mapping, I.	....	3	....	3	87
Surveying, I.	2	....	2	....	87
Field-work, I.*	....	....	....	....	87

* NOTE.—Field-work begins August 30th, 1915.

Summer Work.—Undergraduates entering the third year in Civil and Mining Engineering (Courses III. and IV.) are required to attend the Surveying School on August 30th, when the field-work in surveying and geology will commence. (*See* page 87.)

Essay on Summer Reading.—Students entering the third year must—

(*a.*) Prepare an essay; *or*

(*b.*) Follow a course of summer reading.

(*a.*) The essay should consist of about 2,000 words, and must in all respects follow the specifications herewith given:—

All essays must be handed in at the Dean's Office not later than 5 p.m. on Monday, October 11th. A maximum of 100 marks, or nearly 10 per cent. of the total marks for the year, is given for these essays.

The *most acceptable subject for an essay* is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific, or industrial work with which he is familiar will be accepted.

It should be illustrated by drawings, sketches, and (when desirable) by photographs, specimens, etc.

No essay compiled from books alone will be accepted unless the student has obtained in advance the permission of the Head of his Department to prepare such an essay.

The essay must be well expressed and written in precise, well-chosen, grammatical English. In preparing it advantage may be taken of any source of information, but due acknowledgment must always be made, and it must contain a statement of all authorities and books consulted. In judging of the value of the essays, account will be taken not only of the subject-matter, but also of style and literary construction.

All essays when handed in will become the property of the Department concerned and will be filed for reference. Students may submit duplicate copies of their essays in competition for the students' prizes of the Canadian Society of Civil Engineers, or of the Canadian Mining Institute.

Essays must be written on paper of substantial quality, and of a size approximately 8½ x 11 inches.

Students in Mining Engineering who are for any reason unable to write on some engineering work of which they have personal knowledge will be required to take the summer reading (*b*) next following.

(*b.*) The summer reading which may be substituted for the summer essay consists of Shadwell's Industrial Efficiency (Longmans, Green & Co., 1909).

Students will be required to pass an examination in the summer reading at the opening of the session. The same number of marks are allotted for this reading as for the essay.

I. Chemistry.

The aim of this course is to train the students for positions as analytical chemists, and to give them such knowledge of the principles of chemistry that they may be prepared to assist in the solution of problems of value to the industrial and agricultural life of the Province. The course is arranged to give in the first two years a knowledge of the fundamental principles of chemistry and physics, with sufficient mathematics to enable the theoretical parts of the subject to be understood.

In the third year analytical, organic, and physical chemistry are studied from the scientific side and in relation to technology. With the development of the University, a fourth year course, in which the student may specialize in the various branches, will be given.

FIRST YEAR.

As in other engineering courses. (For details *see* page 74.)

SECOND YEAR.

Subject.	First Term.		Second Term.		*See* Page.
	Lectures per Week.	Laboratory Hours per Week.	Lectures per Week.	Laboratory Hours per Week.	
Mathematics, II.	6	....	3	....	94
Chemistry, I.	3	15	3	....	83
Chemistry, II.	....	....	1	15	83
Mechanics, II.	....	....	3	....	95
Physics, II.	2	3	2	3	95
German, I. (Arts)	3	....	3	....	70

THIRD YEAR.

Subject.	FIRST TERM.		SECOND TERM.		See Page.
	Lectures per Wk.	Laboratory Hrs. per Wk.	Lectures per Wk.	Laboratory Hrs. per Wk.	
Engineering Economics	....	....	2	....	85
Geology, I. and II.	2	1	2	1	93
Chemistry, II.	1	9	1	6	83
Metallurgy	2	....	....	1½	92
Mineralogy	2	4	2	....	93
Chemistry, III.	2	3	2	3	84
Chemistry, IV.	....	....	2	....	84
Bacteriology (Arts)	....	....	....	7	59
Assaying	1	6	....	....	92

II. Chemical Engineering.

This course is arranged to prepare the student for the duties of managing engineer in a chemical manufactory. As such he must not only be conversant with the chemical processes involved, but he must be prepared to design and to oversee the construction of new buildings and to direct the installation and use of machinery. Accordingly, the course of study combines a considerable amount of engineering with the maximum of chemical training allowed by the time at his disposal.

FIRST AND SECOND YEARS.

As in other engineering courses. (For details *see* page 74.)

THIRD YEAR.

Subject.	FIRST TERM.		SECOND TERM.		See Page.
	Lectures per Wk.	Laboratory Hrs. per Wk.	Lectures per Wk.	Laboratory Hrs. per Wk.	
Engineering Economics	....	....	2	....	85
Metallurgy	2	....	....	1½	92
Chemistry, II.	1	9	1	6	83
Mechanics, III.	2	....	....	....	96
Mechanical Engineering, II. and III.	2	3	2	3	88
Mineralogy, I.	2	4	2	....	93
Ore-dressing	2	....	2	1½	91
Chemistry, III.	2	3	2	3	84
Chemistry, IV.	....	....	2	....	84
General Engineering, II.	....	....	2	3	86
Structural Engineering, III.	....	....	1	3	87

III. Civil Engineering.

The aim of this course is to give the student a sound training in the fundamental scientific principles on which the practice of the profession is based, and in the various branches of general engineering which are most called for in the practice of the profession in this Province. Experience shows that graduates do not usually follow any narrow differentiation that they may make in their course, but are governed by many other factors which affect them after leaving college. In practice in British Columbia in particular, the engineer is called upon to undertake work in various branches of the profession. The course is therefore adapted to the needs of the engineer who expects to enter the profession in this Province in general practice, or the student who wishes to take up a special branch of engineering in a postgraduate course. The instruction is given by means of lectures and practical work in the field, the draughting-room and the laboratory, and by visits to works by regularly conducted class excursions.

During the earlier years of the course the training is along engineering lines in Mathematics, Physics, Mechanics, and allied subjects which are essential to the proper education of the engineer who in practice is applying the principles of these sciences.

In the third year of this course the strength of materials is the main subject of study. The knowledge of this subject already gained is applied to simple problems in the analysis of stresses in framed structures, and to the design of foundations, girders, columns, roof-trusses, and the like. Courses in surveying extend throughout the second and third years, with summer school sessions and field-work at the beginning of the session.

FIRST AND SECOND YEARS.

As in other engineering courses. (For details *see* page 74.)

THIRD YEAR.

Subject.	First Term.		Second Term.		*See* Page.
	Lectures per Week.	Laboratory Hours per Week.	Lectures per Week.	Laboratory Hours per Week.	
(1.) Descriptive Geometry, II.	1	3	....	....	84
(2.) Geology, I. and II.	2	1	2	1	93
(3.) Engineering Economics	....	....	2	....	85
(4.) Mechanics, III.	2	....	....	....	96
(5.) General Engineering, II.	2	....	2	3	86
(6.) Mechanical Engineering, II. and III.	2	3	2	3	88
(7.) Mechanical Engineering, IV.	2	....	2	....	88
(8.) Railway Engineering, I.	2	....	2	....	86
(9.) Structural Engineering, II. and III.	1	3	1	3	86
(10.) Hydraulic Engineering, I.	1	....	1	....	86
(11.) Electrical Engineering, I.	....	3	....	3	87
(12.) Surveying, II.	2	....	2	....	87
(13.) Mapping, II.	....	6	....	6	87
(14.) Field-work, II.	4*	....	....	....	87

* Weeks.

IV. Mining Engineering.

This course is intended to give a broad foundation in mining engineering that will form a suitable introduction to any branch of the work that aptitude or circumstances may lead the student to enter after graduation.

Special attention is therefore given to the fundamental sciences upon which the practice of the profession is based. As the usual avenues toward professional work are through draughting, surveying, and assaying, special attention will be given to training in these branches of the work.

Specialization does not begin until the third year, when courses in mining, metallurgy, ore-dressing, and assaying are commenced, but the chief work is still in such fundamental subjects as applied mechanics, mechanical engineering, chemistry, geology, and mineralogy.

Instruction is given by means of lectures and practical work in the field, draughting-room, and laboratory, and by visits to mines and works. Students are recommended to spend their vacations at practical work in connection with mining, metallurgy, or surveying, and will be required to do so between the third and fourth year.

FIRST AND SECOND YEARS.

As in other engineering courses. (For details *see* page 74.)

THIRD YEAR.

Subject.	First Term.		Second Term.		*See* Page.
	Lectures per Week.	Laboratory Hours per Week.	Lectures per Week.	Laboratory Hours per Week.	
Engineering Economics	....	....	2	....	85
Fire Assaying	1	6	....	....	92
Geology, I. and II.	2	1	2	1	93
Chemistry, II.	1	6	1	6	83
Mechanical Engineering, II. and III.	2	3	2	3	88
Metallurgy	2	....	....	1½	92
Mineralogy	2	6	2	....	93
Mining Engineering	....	....	2	....	91
Ore-dressing	2	....	2	1½	91
General Engineering, II.	2	....	2	3	86
Structural Engineering, III.	....	....	1	3	87
Surveying, II.	2	....	....	....	87
Mapping, II.	....	3	....	....	87

REGULATIONS CONCERNING PREREQUISITE SUBJECTS.

(1.) No student proceeding to a degree will be allowed to take any subject, unless he has previously passed, or secured exemption, in all prerequisite subjects.*

(2.) All students proceeding to a degree as above shall be classed as undergraduates and conditioned undergraduates, the latter being students with defective entrance qualifications or who have failed in one or more of the subjects of their course in the year previous to that in which they are entered.

(3.) Except in special cases as provided below, no undergraduate or conditioned undergraduate shall be permitted to take any second year subject until he has passed or secured exemption in all matriculation requirements; and, similarly, no third year work may be undertaken until all first or second year subjects respectively shall have been passed or exempted.

The Faculty may waive this rule in special cases.

(4.) Partial students (not proceeding to a degree) may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the Head of each Department concerned, and have also had their courses approved by the Faculty.

(5.) In the event of a partial student desiring to obtain undergraduate standing in order to proceed to a degree, he shall not be given credit for work already done without the usual prerequisites until he has also passed examinations or secured exemptions in such prerequisites as may be demanded and has had his case approved by a unanimous vote of the Faculty.

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* It is to be noted that prerequisite subjects are those which, in the opinion of the Faculty, must have been mastered before the subjects to which they are prerequisite can be intelligently studied.

Concurrent subjects are those which so supplement one another that no one of them can be advantageously studied alone. If any subject has another which is concurrent to it, both must be taken in the same session.

(6.) All undergraduates who at the close of any session have passed the examinations in all the subjects of their year, or who at the opening of the following session have removed all conditions by passing supplemental examinations in the subjects in which they have failed, may pass into the next higher year as undergraduates.

(7.) All students who have conditions that have not been removed at the opening of any session are conditioned undergraduates, and come under the regulations governing prerequisite subjects.

COURSES OF LECTURES IN APPLIED SCIENCE.

N.B.—The following courses are subject to such modifications during the year as the Faculty may deem advisable.

Department of Chemistry.

Professor—D. McIntosh.
Assistant Professor—E. H. Archibald.

CHEMISTRY, I.

General Chemistry.—This course is arranged to give a full exposition of the general principles involved in modern chemistry, and comprises a systematic study of the properties of the more important metallic and non-metallic elements and their compounds and of the applications of chemistry in technology. Three lectures and two laboratory periods of two hours weekly.

Book recommended: Smith's General Inorganic Chemistry.

CHEMISTRY, II.

Qualitative and Quantitative Analysis.—(a.) *Qualitative Analysis.*—A course consisting of one hour of lecture or recitation and six or more hours of laboratory work each week throughout the first term. During the first six weeks of the term an additional hour of lecture or recitation may be substituted for a part of the laboratory work.

(*b*.) *Quantitative Analysis.*—A course consisting of one hour of lecture or recitation and six or more hours of laboratory work each week throughout the second term. The course embraces the more important methods of gravimetric and volumetric analysis. Course (*b*) must be preceded by Course (*a*).

Books recommended: Noyes' Qualitative Analysis; Cumming and Kay's Quantitative Analysis.

CHEMISTRY, III.

Organic Chemistry.—This introduction to the study of the compounds of carbon will include the methods of preparation and a description of the properties of the more important groups and compounds in both the fatty and the aromatic series. Two lectures and one laboratory period of three hours weekly.

(III. will only be given to those students taking II., or those who have had the equivalent of II.)

Books recommended: Remsen's Organic Chemistry; Orndorff's Laboratory Manual.

CHEMISTRY, IV.

Theoretical Chemistry.—An introductory course on the development of modern chemistry, including osmotic phenomena, the ionization theory, the law of mass action, and the phase rule. Two lectures a week during the second term.

Text-book: James Walker. Introduction to Physical Chemistry.

Descriptive Geometry.

Lecturer—E. G. Matheson.

DESCRIPTIVE GEOMETRY, I.

Geometrical drawing; orthographic, isometric and axometric projections; shades and shadows.

DESCRIPTIVE GEOMETRY, II.

Mathematical perspective; perspective of shadows; spherical projections and construction of maps.

Drawing.

Lecturer—

DRAWING, I.

In the *Freehand Drawing Course* the object is to train the hand and eye so that students may readily make sketches from parts of machinery, etc., either as note-book sketches, diagrams, perspective drawings in light and shade, or as preparatory dimensioned sketches from which to make scale drawings.

DRAWING, II.

In the *Lettering Course*, plain block alphabets, round writing, and titles, such as are chiefly in use in draughting offices, will be dealt with. In this course, also, tinting, tracing, blue-printing, and simple map-drawing will be included.

ENGINEERING.

Department of Civil Engineering and Surveying.

Assistant Professor—H. K. Dutcher.
Lecturer—E. G. Matheson.
Lecturer—

ENGINEERING ECONOMICS.

General finance; barter and sale; money and credit; stocks and bonds; partnership and corporations; estimating; cost analysis; valuations; operating and fixed charges; specifications and contracts.

GENERAL ENGINEERING, I.

Materials of Construction.—Manufacture and properties of cast iron, wrought iron; crucible, bessemer, and open-hearth steel; principal alloys; considerations governing selection of materials; manufacture and properties of Portland and natural cements; limes; concrete; stone and brick masonry; principal kinds of timber used for engineering purposes; preservation of timber; discussion of standard specifications.

Required of all engineering students. One hour per week.

GENERAL ENGINEERING, II.

Strength of Materials.—Lectures dealing with the fundamental principles of the strength of materials. The subject includes stress, strain, resilience; bending moment and shearing force diagrams; simple, continuous, and cantilever beams; strength of shafting; spiral springs; elementary consideration of compound stresses and shearing in different sections.

Strength of Materials in Laboratory.—Testing of concrete, timber, steel, and other materials to illustrate the theories and factors considered in the lectures.

HYDRAULIC ENGINEERING, I.

Application of hydraulic pressure in the case of dams, gates and pipes; flow of water and measurement of volume by various orifices and weirs; flow in open channels, ditches, flumes, etc.; elementary study of the theory of water-wheels, turbines, etc.

RAILWAY ENGINEERING, I.

Location and grade problems; economics of location; reconnaissance, preliminary, and location surveys; yards and terminals; details and materials of construction; estimates of probable receipts and expenditures.

STRUCTURAL ENGINEERING, I.

Graphical Statics.—Composition of forces; general methods involving the use of funicular and force polygons; determination of reactions, centres of gravity, bending moments and moments of resistance; stresses in cranes, braced towers, roof-trusses, and bridge-trusses.

Required of all engineering students.

STRUCTURAL ENGINEERING, II.

Foundations and Masonry.—Borings; bearing power of soils; pile and other foundations; coffer-dams; caissons; open dredging; pneumatic and freezing processes; estimates of quantities and costs.

STRUCTURAL ENGINEERING, III.

Problems illustrating designs in structural engineering and reinforced concrete; drawing estimates of quantities and costs.

SURVEYING, I.

Lectures; chain and angular surveying, surveying instruments and equipment, their construction, use, and adjustment; topography, levelling, contouring, stadia surveying, railway curves, etc.; Provincial and Dominion surveys.

SURVEYING, II.

Theory and use of instruments, plane table surveying, mine surveying, hydrographic surveying; theory and setting out of railway curves; elements of geodetic surveying; elements of practical astronomy; Provincial and Dominion land surveying.

FIELD-WORK, I.

(1) Farm survey, with chain and compass; (2) compass and micrometer survey; (3) detail survey by chain and pickets; (4) levelling; (5) transit work.

FIELD-WORK, II.

Topographical, hydrographical, and railway-location surveys; mine surveys; use of plane table, sextant, barometer, etc.

MAPPING, I.

Drafting from notes obtained in field-work.

MAPPING, II.

Draughting from notes obtained in field-work and from other notes.

Electrical Engineering.

Assistant Professor—L. Killam.

An essentially practical course designed to give the student acquaintance with and experience in the handling of electrical

machinery. The selection of proper apparatus for any particular service and the construction of a simple lighting system will be considered.

Department of Mechanical Engineering.

Assistant Professor, L. Killam.

Demonstrators: ————, Draughting.
H. Taylor, Machine-work.
S. Northrop, Wood-working.
R. Edwards, Blacksmith-work.
————, Moulding.

MECHANICAL ENGINEERING, I.

Mechanics of Machines.—(*a.*) First term. *Kinematics of Machines.*—Constrained motion; kinematic pairing; velocity and acceleration in mechanisms, centrodes, analysis and classification of simple mechanisms, including the quadric crank chain, the slider crank chain, and various wheel trains; designs of involute and of cycloidal wheel-teeth.

(*b.*) Second term. *Dynamics of Machines.*—Work and power; the power and turning effort of prime movers; inertia and kinetic energy of revolving and reciprocating parts of machines.

Text-book: Durley's Kinematics of Machines (Wiley).

MECHANICAL ENGINEERING, II.

Heat Engines and Auxiliaries.—The mechanical engineering of large and small steam and internal-combustion power plants, with consideration of the economical selection of equipment.

MECHANICAL ENGINEERING, III.

Laboratory.—The testing of various power plants and of the efficiency of transmission.

MECHANICAL ENGINEERING, IV.

Thermodynamics.—The fundamental principles of thermodynamics; the efficiencies of ideal heat engines; the properties of steam and the elementary theories of different heat engines.

Text-books: Ewing, "The Steam Engine and other Heat Engines"; Marks and Davis, "Steam Tables and Diagrams."

MECHANICAL DRAWING, I.

Elementary principles of mechanical drawing and draughtsmanship; preparation of working drawings and tracings of simple machine details.

In connection with this work a brief course of lectures is given upon draughting-room methods and standards, and the elementary considerations in the design and construction of, and selection of materials for, simple machine parts.

MECHANICAL DRAWING, II.

Draughting and tracing of more difficult exercises; and the making of assembly and detail drawings of machine parts. Lectures are given from time to time during the course dealing with draughting-room methods, explanation of designs, and discussion of the reasons for selection of materials.

SHOP-WORK.

The course in shop-work is intended to afford some preparation for that study of workshop practice on a commercial scale which every engineer has to carry out for himself. With this end in view, the student works in the various shops of the department, and completes in each a series of practical exercises. He thus obtains some knowledge of the nature and properties of the various materials he employs; he receives systematic instruction in the use and care of the more important hand and machine tools; and he acquires some manual skill. The instruction thus obtained must, however, be continued and supplemented. *For this purpose students are expected to spend the greater portion of each long vacation in gaining practical experience in engineering workshops outside the University.*

Students are required to read and make notes of selected portions of certain text-books and articles in technical journals, illustrative of the work done in each shop. The practical work is supplemented by a brief course of lectures dealing with shop

processes and tools. The subject dealt with in this way gives the student a clearer idea of the care and use of the various instruments and tools and of the performance of the machines.

In connection with his shop-work each student is required to keep a record of his work. These records or notes are made on standard forms. These are handed in to the Shop Instructor at the close of each period of work, and, together with diligence and the results of a brief written examination, form the basis on which credit for workshop is assigned.

SHOP-WORK, I.

Carpentry and Wood-turning.—Sharpening and care of wood-working tools; sawing, planing, and paring to size; preparation of flat surfaces, parallel strips, and rectangular blocks; construction of the principal joints employed in carpentry and joiner work, such as end and middle lap joints, end and middle mortise and tenon joints, mitres, dado and sash joints; dovetailing; scarfing; joints used in roof and girder work; wood-turning; use of wood-turning tools.

SHOP-WORK, II.

Smith-work.—The forge and its tools; use and care of smith's tools; management of fire; use of anvil and swage-block; drawing taper, square, and parallel work; bending, upsetting, twisting, punching, and cutting; welding and scarfing.

SHOP-WORK, III.

Foundry-work.—Moulders' tools and materials used in foundry-work; the cupola; the brass furnace; preparation of moulding-sand; boxes and flasks; core-making; use of core-irons; bench moulding; blackening, coring, and finishing moulds; vents, gates, and risers; floor moulding; open sand work; melting and pouring metal; mixtures for iron and brass casting.

SHOP-WORK, IV.

Shop Processes.—Tools; tool-steels; forging, hardening, and tempering; case-hardening; grinding and abrasives; brazing and

soldering; modern welding processes; fits and fitting; interchangeable processes of manufacture; lathe construction, adjustments, and practice.

Text-book: Smith, Elements of Machine Work.

SHOP-WORK, V.

Machine-shop Work.—Exercises in chipping; preparation of flat surfaces; filing to straight edge and surface plate, scraping, screwing, and tapping; use of scribing block and surface gauge; marking off work for lathes and other machines; turning and boring cylindrical work to gauge; surfacing; screw-cutting and preparation of screw-cutting tools; machining flat and curved surfaces on the planing and shaping machines; drilling and boring; cutting angles and speeds; dressing and grinding tools.

Required of all engineering students. Three hours per week.

Department of Mining Engineering.

Professor—

MINING ENGINEERING.

The principles and practice of mining; prospecting, simple mining methods, excavations, explosives and blasting, rock-drills, coal-cutters, gold washing and dredging, hydraulic mining, quarrying, etc.

Two lectures per week in the second term.

ORE-DRESSING.

These lectures follow quite closely the subject as it is taken up in Richards' Text-book of Ore-dressing. They follow the sequence of operations from the arrival of crude ore or mill rock at the mill until it leaves as a concentrate or bullion. Miscellaneous processes such as magnetic separation, oil-flotation and air processes, and coal-washing are taken up separately.

This course covers the principles and operations of rock crushing and grinding; stamp-milling, with amalgamation, screening, and sizing of crushed ore; classification of sands and slime by water as a preparation for the separation of minerals by jigs, tables, and other devices of proved efficiency.

Lectures two hours per week throughout the year.

METALLURGY.

An introductory course in the metallurgy of copper, lead, iron, and steel. Various metallurgical exercises will be carried out in the laboratory.

Two lectures per week in the first term: laboratory work in the second term.

FIRE ASSAYING.

Quantitative determination of gold, silver, and lead in ores and bullion by fire assay.

One lecture and two laboratory periods in the first term.

English.

ENGLISH, I.

English Composition.—In view of the importance of accuracy of expression in the case of those engaged in scientific or professional work, a course on English composition is prescribed for all undergraduates of the first year. Students who give evidence of having already reached the required standard of efficiency by passing a special exemption examination may be excused from attendance on this course. This special examination will be held on Thursday, October 1st, at 11 o'clock.

Satisfactory results in class and essay work must be obtained before entry into the second year. All undergraduates of the first year, whether exempt or not from attendance on the course, must pass the final examination.

In connection with this course the following text-books may be used: Carpenter's Rhetoric and English Composition (Macmillan); Wooley's Handbook of Composition (Heath).

ENGLISH, II.

Summer Reading (*see* page 74.)

Department of Geology and Mineralogy.

Professor—R. W. Brock.

GEOLOGY, I.

Physical Geography.—Three hours per week, lectures and recitations, laboratory and field work as arranged. First term: The lands, the atmosphere, and the oceans.

College Physiography, Farr and Martin (Macmillan).

GEOLOGY, II.

General Geology.—Three hours per week, lectures and recitations, laboratory and field work as arranged. Second term: The materials of the earth, its structure, and the history of the earth, with its plant and animal inhabitants. The geology of Canada. This course should be preceded by Physical Geography.

Elements of Geology, Blackwelder and Barrows (American Book Company).

MINERALOGY, I.

Two hours lectures and recitations and two hours laboratory per week. An elementary study of the physical and chemical properties of minerals, and the determination of the commoner and more important minerals.

Minerals and How they Occur, Miller (Copp, Clark Co.). Reference: Brush and Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis (Wily & Sons).

Mathematics.

Associate Professor—G. E. Robinson.
Instructor—E. E. Jordan.

MATHEMATICS, I.

(1.) *Geometry.*—Exercises in plane geometry, elements of solid geometry and of geometrical conic sections. First term.

Text-book: Hall and Stevens' School Geometry, Parts I. to VI. (Macmillan).

(2.) *Algebra.*—Miscellaneous theorems and exercises, exponential and other series, properties and solutions of higher equations, complex numbers and vector algebra, graphical algebra with an introduction to analytic geometry, indeterminate forms, limits, derivatives, slopes of curves. First year (first and second terms).

Text-books: Rietz and Crathorne's College Algebra (Holt & Co.); Tanner and Allen's Analytic Geometry (American Book Co.).

(3.) *Trigonometry.*—Plane and spherical. Second term.

Text-book: Murray's Plane and Spherical Trigonometry, with tables (Longmans).

MATHEMATICS, II.

(1.) *Analytic Geometry.*—The point, straight line, circle, parabola, ellipse and hyperbola, elements of geometry of three dimensions. First year (latter part of second term), and second year (first term). The second year work begins with the circle.

Text-book: Tanner and Allen's Analytic Geometry (American Book Co.)

(2.) *Calculus.*—Differentiation of functions of one or more variables, successive differentiation, tangents, etc., curvature, maxima, and minima, integration, with applications to areas, volumes, moments of inertia, etc. First and second terms.

Text-book: Murray's Differential and Integral Calculus (Longmans).

Department of Physics.

Professor—Howard T. Barnes.
Associate Professor—James G. Davidson.
Instructor—B. L. Silver.

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics (embracing, in the first year, *The Laws of Energy—Heat, Light, and Sound;* in the second year, *Electricity and Magnetism*), accompanied by courses of practical work in the laboratory, in

which students will perform for themselves experiments, chiefly quantitative, illustrating the subjects treated in the lectures. Opportunity will be given to acquire experience with all the principal instruments used in exact physical and practical measurements.

PHYSICS, I.

1. *Lecture Course.*—Subject: Heat, sound, and light. Two hours per week.

2. *Laboratory Course.*—Three hours per week, spent in practical measurements in conjunction with the lecture courses.

Text-books: Draper's Advanced Heat; Deschanel's Sound and Light (Renouf Publishing Co.).

PHYSICS, II.

1. *Electricity and Magnetism.*—Lecture course two hours per week.

2. *Laboratory Course,* three hours per week. (*a.*) *Magnetism and Electricity.*—Measurements of pole strength and moment of a magnet; the magnetic field; methods of deflection, and oscillation; comparison of moments and determination of the elements of the earth's magnetism.

(*b.*) *Current Electricity.*—A complete course of measurements of current strength, resistance, and electromotive force; calibration of galvanometers.

Text-book: Brooks and Poyser, Electricity and Magnetism (Macmillan).

Mechanics.

MECHANICS, I.

An elementary course in dynamics, statics, and hydrostatics. First and second terms.

Text-book: Loney's Mechanics and Hydrostatics for Beginners (Cambridge University Press).

MECHANICS, II.

The course includes the general principles of statics, and of the dynamics of a particle. Motion of a particle under

varying force is considered and a knowledge of both differential and integral calculus is essential. Simple harmonic motion is considered (taking the oscillation of springs and pendulums in illustration), and numerous applications of the principles dealt with are worked out.

Three lectures per week, second term.

Text-book: J. Duncan, Mechanics for Engineers.

MECHANICS, III.

An extension of the work of Mechanics II., to include the equations of motion of a rigid body in two dimensions; practical problems on rotating and oscillating bodies, the elementary consideration of the gyroscope, etc.

Two hours per week first term.

MILITARY TRAINING.

As the University of British Columbia is a public institution supported by state funds, and as the physical exercise, discipline, organization, and study of military science are highly beneficial to the student, Military Training for two sessions is compulsory upon all male students.

Application has been made to the Militia Headquarters for permission to organize a contingent of the Canadian Officers' Training Corps, in order that the training taken at the college may qualify students to rank in the Canadian Militia as officers without further training. A contingent of the Officers' Training Corps is a unit of the Active Militia, but is governed by special regulations. It cannot be called out for active service, but all qualified members, if not attached to any militia corps, are placed on the Officers' Reserve List of Canada. Certificates of proficiency are issued to members who qualify. These certificates are of two classes, "A" and "B," "A" certificate being given to those who spend two years with the corps as efficient members, and "B" certificate to those who spend three or more years as efficient members.

Members to qualify must attend all drills and lectures for a minimum period of two sessions and pass certain examinations.

A certificate of proficiency entitles the holder to rank as an officer in the Canadian Militia without further training.

On attaining class "A" certificate a student will be exempt from further training, but students are advised to continue training.

The time devoted to military training will be two hours per week.

APPENDIX.

(1.) LIST OF STUDENTS AND PASS LISTS.

Former students of McGill University College are admitted *ad eundum statum* to the University of British Columbia. The following Pass Lists give the standing obtained by such students at the last examinations:—

ALPHABETICAL LIST OF STUDENTS AND ADDRESSES.

FACULTY OF ARTS.

FIRST YEAR.

Undergraduates.

Name.	*Home Address.*
Aconley, William Thorne	Vancouver.
Aird, Olive May	Victoria.
Allardyce, William John	Vancouver.
Allen, Percy Alexander	Vancouver.
Anderson, John Alexander	Vancouver.
Ballentine, Ellen May	Vancouver.
Barclay, George Chapman	Central Park.
Bodie, Helena	Vancouver.
Bolton, Dorothea Blanchard	Vancouver.
Bolton, Florence Evelyn	Vancouver.
Böttger, Gevert Carl	Vancouver.
Boyd, Lillian Martha	Vancouver.
Bradshaw, Henrietta Ash	Victoria.
Bradshaw, Kathryn Reade	Victoria.
Burnett, Mary Beatrice	Vancouver.
Carne, Harold Gowen	Victoria.
Castleman, Gordon Cameron	Vancouver.
Cayley, Beverley Cochrane	Vancouver.
Chadwick, Beatrice Annie	Vancouver.
Chatwin, Alfred Hill	Vancouver.
Clark, Norma Gates	Victoria.
Clement, Elsie Bonallyn	Vancouver.
Clyde, Paul H.	Victoria.
Cowherd, Isabel Marguerite	Vancouver.
Coy, Norah Elizabeth*	Vancouver.
Crowe, Blanche	Penticton.
Dawe, Ernest Llewellyn	New Westminster.

* Special student.

Name.	*Home Address.*
Dill, Nellie Lu	Victoria.
Dixon, George Clapham	Vancouver.
Duke, Aylmer Earl	Vancouver.
Fallows, Marjorie Hamilton	Vancouver.
Ferguson, Clifford Joseph	Vancouver.
Fox, Marjory	Victoria.
Francis, Henry Gascoigne	Parson's Bridge.
Fraser, Joseph Gordon	Vancouver.
Fulton, Ruth Vivia	Vancouver.
Garesché, Maria Teresa	Victoria.
Gilbert, Victoria Birdie Winnifred	Vancouver.
Gill, Margaret Susannah	North Vancouver.
Godfrey, John Dand	Vancouver.
Godsmark, James Edward	Derby, England.
Gordon, Ina Helen	Victoria.
Graham, Rita Rutherford	Vancouver.
Grant, Muriel	Victoria.
Grant, Rena Victoria Alice	Vancouver.
Griffith, Meiriona Ellis	Vancouver.
Hamilton, Stewart Perry	Vancouver.
Harris, Edith Lilian	Victoria.
Harris, John Stafford	Vancouver.
Harris, Sydna Frances	Victoria.
Harvey, Isobel	Vancouver.
Harvie, Jean Ayton	Vancouver.
Hatch, William George	Vancouver.
Hay, Dorothea Jane	Victoria.
Henderson, Grace Kilpatrick	Vancouver.
Hokkyo, Jun-ichi	Vancouver.
Holmes, Albert Thomas Franklin	Vancouver.
Hughes, Norman Vincent	Vancouver.
Hurst, Mcleod Ewart	Kerrisdale.
Jardine, Blair Gordon	Vancouver.
Jeffs, William Armour Cowan	Vancouver.
Johnson, Amy Willard	Victoria.
Johnston, Harry Lloyd	Vancouver.
Jones, Clytie Pauline	Vancouver.
Lyons, Hermione Marion	Victoria.
MacArthur, Donald Moulton	Vancouver.
MacDonald, Jessie	Cumberland.
Manson, Catherine Dorothea	Mission City.
Marling, Samuel Earle	Victoria.
Marshall, Abraham Lincoln	Victoria.

Name.	*Home Address.*
Martin, Genevieve McKinnon	Vancouver.
Martin, May	Westham Island.
McArthur, Helen Margaret	Vancouver.
McCartney, Verna	Vancouver.
McGuire, Stella Victorine	Vancouver.
McHeffey, Jessie	Vancouver.
McIntosh, Richard Harold	Vancouver.
McKinnell, Mildred Marie	Victoria.
McLean, Eleanor May	Vancouver.
McNaught, Robert Donald	Glasgow, Scotland.
McNeill, Hazel	Vancouver.
McRae, Donald Murray	North Vancouver.
McTavish, Alexander Morrison	Vancouver.
Meadows, George Douglas	Vancouver.
Meekison, Donald Murray	Vancouver.
Merrill, Gerald Herriman	Vancouver.
Mitchell, H. Douglas	Victoria.
Moore, Guy Borthwick	Vancouver.
Munday, Caroline Pansy	South Vancouver.
Munnings, Lydia Mabel	Kerrisdale.
Munro, Alexander	Vancouver.
Murray, David Fraser	Victoria.
Neill, Chester Richard	Vancouver.
Nelson, Thelma	Abbotsford.
Norris, Frances	Victoria.
Palmer, R. C.	Cowichan Bay.
Pearson, Frank Mitchell	Enderby.
Pottinger, James M.	Victoria.
Ray, Godfrey Henry	Vancouver.
Robertson, Hugh Milne	Britcola.
Rogers, William Byron	Vancouver.
Seidelman, Edward Joseph	Vancouver.
Shaw, Ian Alastair	Vancouver.
Simpson, Donald David	Victoria.
Smith, Grace Purvis	Oakalla.
Snelgrove, Dinah Hazel	Vancouver.
Stevens, Harold R.	Victoria.
Stewart, Charles Clark	Kerrisdale.
Stewart, Ruth	Vancouver.
Stubbs, George William	Victoria.
Swencisky, Dylora Mary	New Westminster.
Tamura, Kikuichi	Steveston.
Telford, Neil Weber	Vancouver.

Name.	*Home Address.*
Tennant, Marjorie	Victoria.
Terry, Ilace	Victoria.
Thompson, Nora Kathleen	Vancouver.
Timberlake, Morley	Vancouver.
Townsend, Caroline Emma	Victoria.
Vermilyea, Frances Evelyn May	Vancouver.
Walsh, Violet Charlotte	Vancouver.
Wheeler, Arthur Lloyd	Victoria.
Wilband, Hazel Grace	Vancouver.
Williams, George Hobart	Vancouver.
Williams, Margaret Louise	Vancouver.
Woodward, Robert Cecil	Victoria.
Yipsang, May Susan Ling	Vancouver.

Conditioned Undergraduates.

Anderson, Allan Jardine	Vancouver.
Bain, Janet Burnett	Vancouver.
Busemann, Rudolph Henry	Murrayville.
Carter, Edna Anderson	Kerrisdale.
Creeden, Elsie	Victoria.
Elliott, Lachlan McLean	Vancouver.
Ewing, John Morton	Edinburgh, Scotland.
Hall, Ralph Watson	Vancouver.
Kerr, Donna Enid	Victoria.
Laing, Thomas Mackie	Eburne.
Lehman, Melba Beatrice	Victoria.
McDonald, Helen Maude	Vancouver.
McInnes, Harold Walker	Grand Forks.
McMyn, Jean Marguerite	Steveston.
Newman, Bertha Louise	Vancouver.
Ryan, Clarence Albert	Vancouver.
Sargent, Beatrice Hazel	Victoria.
Sargent, Hartley Marguerite	Victoria.
Trapp, Donovan Joseph	New Westminster.
Wheeler, Helen Mina	Victoria.

Partial Students.

Burrell, Dorothy Grace	Victoria.
Coughlan, Joseph Clare	Hastings, Ontario.
Drury, Douglas Richard	Victoria.
Emmons, William Frank	Vancouver.
Forrester, Alexander	Victoria.
Gray, William John	Vancouver.

Name.	*Home Address.*
Hall, Unina Frances	Vancouver.
Heynen, Robert Harry	Vancouver.
Hughes, John Lloyd	Llanberis, Wales.
Jones, Thomas Meredith	Victoria.
Kearne, Geoffrey Norman	St. Leonards-on-Sea, England.
Macdonald, Mary	Vancouver.
MacDougall, James	Vancouver.
MacPherson, Gordon Angus	Bay St., Lawrence,
Mathers, Wilford Wiltsie	Vancouver. [N.S.
Morgan, Arthur C.	Victoria.
Morrow, Mary Kathleen	Victoria.
Page, Virginia Carter	Vancouver.
Patterson, Neil David	Cape Breton, N.S.
Pollinger, Samuel	London, England.
Rollston, Eva Jean	Vancouver.
Scott, Anna Gertrude	Victoria.
Stewart, George William	Vancouver.
Taylor, Ivan Marcus	Vancouver.

SECOND YEAR.

Undergraduates.

Abercrombie, William Thomas	Central Park.
Abernethy, Jean Barclay	Eburne Station.
Adams, Robert Frederick	Fahan, Londonderry, Ireland.
Archibald, Laura Mary	Victoria.
Bagley, Ralph Frederick	Vancouver.
Baker, Lincoln Thompson	Vancouver.
Ballantyne, Hazel Sarah	Victoria.
Bayly, Milton Dawson	Chilliwack.
Beattie, Mildred R. C.	Victoria.
Berto, John Clifford	Vancouver.
Buchanan, John Murdock	Steveston.
Bunt, Heber	Victoria.
Celle, Peter Thomas Dominic	Ladysmith.
Clark, Harry	Victoria.
Drader, Cecil R.	Victoria.
Fraser, George Lovat	Vancouver.
French, Charles McIntyre	Victoria.
Galbraith, Samuel Tait	Belfast, Ireland.
Geoghegan, Dorothy Rachel	Duncan.

Name.	*Home Address.*
Gordon, Eric Valentine	Victoria.
Greenwood, Bessie	Victoria.
Hagelstein, Herman William	Murrayville.
Hardwick, Margaret Sibella	Victoria.
Hatch, Elizabeth Allen	Vancouver.
Hickey, Edward John	Victoria.
Irving, Howard Clifford	Nelson.
Jackson, Ella Jardine	Victoria.
Jackson, Lorne	Vancouver.
Kerr, Forest A.	Victoria.
Johannson, Joseph Soemundur	Vancouver.
Mahrer, Leopold Joseph	Nanaimo.
Manzer, Howard Lee	Silverdale.
Mathers, Fred Des Brisay	Vancouver.
Maynard, Margaret Emily	Vancouver.
McTavish, Janet Lu Edna	Vancouver.
Mennie, John Hamilton	Vancouver.
Mounce, Marion Jean	Vancouver.
Muddell, Vera Emily	Vancouver.
Mutrie, Margaret Kathleen	Vancouver.
Orr, Olive May	Chilliwack.
Pauly, Gabrielle	Victoria.
Peck, Kathleen Margaret	Vancouver.
Pollock, Theressa Alletta	Victoria.
Rosebrugh, Josie Pearl	Vancouver.
Russell, John	Union Bay.
Shaw, Hazel Juanita	Vancouver.
Smeeton, Joseph Thomas	Vancouver.
Story, Evelyn Sykes	Vancouver.
Suggitt, May Annie	Vancouver.
Watson, Violet	Victoria.
White, Helen Margaret	Vancouver.

Conditioned Undergraduates.

Evans, Elmer	Vancouver.
Gordon, David John	Dundalk, Ireland.
Hope, Clifford Sinclair	Salmon Arm.
Laidlaw, Kathleen Neville	Vancouver.
Lawson, Duncan McDonald	Hollyburn.
Lee, Annie Winnifred	Vancouver.
Lee, Clarence Edgar	Victoria.
McCrimmon, May Dwyer	Vancouver.
McKenna, Vincent	Victoria.

Name.	*Home Address.*
McLellan, Willard Gilmore	Vancouver.
Miller, Arthur Harold	Vancouver.
Miller, Clive	Vancouver.
Morrison, Loyle Alexander	Vancouver.
Paterson, Georgienna Urella	Vancouver.
Paton, Thomas Stevenson	Ayr, Scotland.
Scott, Seaman Morley	Vancouver.
Third, Jack Gerald	Vancouver.
Thomson, Wesley Chantler	Vancouver.
Tupper, Charles	Vancouver.
Wright, Leroy Charles	Vancouver.
Young, George Albert	Kerrisdale.

Partial Students.

Axon, Robert	Vancouver.
Cameron, William John	Glasgow, Scotland.
Coates, Wells Wintemute	Vancouver.
Crute, Ebenezer	Vancouver.
Goodman, William Edgar Harry Grinling	London, England.
Hill, Annie Graham	Vancouver.
Hodgins, Francis John	Chilliwack.
Hughes, Thomas Melville	Newton Abbott, Eng.
McDowell, Hugh	Regina, Sask.
MacLennan, Kenneth Finlayson	Nanaimo.
Walkinshaw, Wingate Robertson	Glasgow, Scotland.
Wells, Charles Godfrey Platt	Hurstleigh, Tunbridge Wells, Eng.
Wilson, Conrad Blackadder	Victoria.
Wilson, Dorothy Mae Isobel	Victoria.

THIRD YEAR.

Undergraduates.

Anderson, Jessie Josephine	Vancouver.
Berry, Edward Weldon	Murrayville.
Carruthers, Bertha Muriel	Vancouver.
Chapin, Florence Birkett	Vancouver.
Creery, Roland Hulbert	Vancouver.
Dawe, William Albert	Vancouver.
Des Brisay, Merrill	Vancouver.
Dick, Agnes Johnston	Nanaimo.
Fountain, Sarah Annie	Vancouver.

Name.	*Home Address.*
Gibson, Harold Alexander Frater	Vancouver.
Gibson, Henry James	Vancouver.
Gibson, Thomas Ian	Vancouver.
Howell, Benjamin Henry	North Vancouver.
Lanning, Mabel Mary	Ladner.
Le Messurier, Ernest	Vancouver.
Lett, Sherwood	Vancouver.
Lipsett, Evelyn Beatrice	Vancouver.
Macleod, Jean Marie	Vancouver.
MacMillan, Isabel Gray	Vancouver.
Maxwell, William Forrest	Vancouver.
Miller, Roland McLeod	New Westminster.
Mills, Lennox Algernon	Vancouver.
Mounce, Irene	Vancouver.
Mulhern, John Edward	Vancouver.
Robertson, Thomas Joseph	New Westminster.
Scott, Gordon Wood	Vancouver.
Shearman, Thomas Stinson Becket	Vancouver.
Smith, David Angus	Dundee, Scotland.
Southcott, James Percy Caldwell	Vancouver.
Taylor, Edna May	Vancouver.
Thompson, Clausen A.	Vancouver.
Vermilyea, Ada Irene	Vancouver.
Walsh, Harold Edgar	Vancouver.
Wilson, William Cochrane	Vancouver.

Conditioned Undergraduates.

Dunton, Marjorie Mae	Vancouver.
Greggor, Agnes Anne	Vancouver.
Munro, Donald Hugh	Vancouver.
Sexsmith, Franklin Burrows	Vancouver.

Partial Students.

Hawe, Zella Christie	Vancouver.
Lane, Laura	New Westminster.
Leslie, James Adam	Broughty Ferry, Scot.
Lewis, Vera Mossalene	Vancouver.
McIver, Angus Morrison	Stornoway, Scotland.
Rae, Hugh McConnell	Vancouver.
Uchida, Tose	Vancouver.
Wallace, Bryce Howie	Vancouver.

FACULTY OF APPLIED SCIENCE.

FIRST YEAR.

Undergraduates.

Name.	*Home Address.*
Austin, Clarence Ward	Kamloops.
Carter, Bayard M.	Steveston.
Doell, Raymond	Rossland.
Doucet, Theodore Emile	Vancouver.
Drewry, John Haworth	Victoria.
Emmons, Edward	Vancouver.
Fowler, Grant	North Vancouver.
Fraser, George Lyall	Atlin.
Gillie, Kenneth Beresford	Victoria.
Goodman, Edwin Monro	Vancouver.
MacPherson, Ralph Stewart	Vancouver.
McDonald, Gordon Roy	Victoria.
McKay, Angus Howard	Vancouver.
Morgan, Theodore Harding	Victoria.
Pim, Edgar Henry	Vancouver.
Scott, William Orville Craig	Vancouver.
Stewart, Frederick Choate	Vancouver.
Williams, Joseph Augustus	Whitehorse, Y.T.
Wilson, Frank Robinson	Whitehorse, Y.T.
Wilson, Harold Archibald	Vancouver.
Woodward, Eric Raymond	New Westminster.

Conditioned Undergraduates.

Bickell, William Albert	Vancouver.
Cameron, Ian MacKenzie	Kelowna.
Harvey, Oliver Colin	Vancouver.
McDougall, Alexander	Vancouver.
Morrison, Albert Henry	Vancouver.
Shaw, Francis Joseph Alexander	Vancouver.
Whitley, Paul Nelson	Vancouver.

Partial Students.

Bissett, Ernest Eugene	Vancouver.
Bullard, Lloyd Francis	Vancouver.
Bullard, Russell Joseph	Vancouver.
Bush, Waldo Murray	Vancouver.
Ellison, Price	Vernon.
Ettershank, Roy Hall	Vancouver.

Name.	*Home Address.*
McKenzie, Victor Christie	Nanaimo.
Rose, Hedley Alexander	Eburne.
Thompson, Douglas Lionel	Victoria.
Weart, James Foss	Vancouver.

SECOND YEAR.

Undergraduates.

Clement, Charleton Main	Vancouver.
Creery, Cuthbert John	Vancouver.
Drury, Eric William	Victoria.
Hardie, Charles Mawer	Esquimalt.
Helme, Harold	Vancouver.
Letson, Harry Farnham Germaine	Vancouver.
Lord, Ernest Ellis	Vancouver.
Payne, Wilfrid Reid	Kerrisdale.
Pearcy, Charles Wickham	Vancouver.
Stone, Clifford Erwin	Vancouver.
Wright, Charles Alfred	Vancouver.

Conditioned Undergraduates.

Galloway, James Robert	Vancouver.
Lambert, Noel Dudley	Vancouver.
MacMillan, Glen Alexander	North Vancouver.
Watts, Harold Newton	Vancouver.

Partial Students.

Davies, Joseph Willis	Vancouver.
Ingersoll, John Nelson	Ottawa, Ontario.
Mitchell, Robert John	Vancouver.

PASS LISTS, SESSIONAL EXAMINATIONS, 1914-15.

FACULTY OF ARTS.

Passed the Third Year Examinations for Course leading to B.A.

(In Alphabetical Order.)

Anderson.
Berry.
Carruthers.
Chapin.
Dick.
Dunton.
Fountain.*
Gibson, H. J.
Le Messurier.
Lett.
Lipsett.
Macleod.
MacMillan.*
Maxwell.
Miller.
Mounce.
Mulhern.
Munro.
Robertson.
Shearman.
Smith.
Southcott.
Taylor.
Thompson.
Vermilyea.
Walsh.
Wilson.

The following students, having enlisted for service overseas, were granted standing:—

Creery.
Dawe.
Des Brisay.
Gibson, H. A. F.
Gibson, T. I.
Scott.

Standing in the Various Subjects.

(In Order of Merit.)

ENGLISH COMPOSITION.

Class I.—Berry, Taylor, Vermilyea, Mounce and Munro and Shearman.

Class II.—Thompson and Wallace, Mulhern, Leslie and McIver, Wilson, Dick, Chapin and Lett, Le Messurier and Miller.

Passed.—Greggor, Walsh, Carruthers, Sexsmith, Maxwell and Rae, Hawe, Southcott and Uchida, Smith, MacMillan, Anderson, Lewis, H. J. Gibson and Lane and Lipsett, Macleod, Fountain and Robertson, Lanning.

PROSE LITERATURE.

Class I.—Berry and Taylor, Vermilyea.

Class II.—Dick and Mounce and Wallace, Lett, MacMillan.

* Supplemental in one subject.

Passed.—Shearman and Miller, Maxwell, Leslie and MacLeod and Mulhern and Munro, Smith, Hawe and Lewis, Southcott, Chapin, Thompson and Anderson, Fountain, Rae, Le Messurier and Wilson, Walsh, Lipsett and Shaw, Gibson and Carruthers and Lane, Uchida.

DRAMA.

Class I.—Berry, Vermilyea, Taylor, Mounce, Hawe.

Class II.—Wallace, Shearman, Maxwell, Lipsett and Dick and Mulhern, Southcott, Lett and Carruthers and Macleod.

Passed.—Le Messurier, MacMillan and Smith, Miller, Leslie and Munro, Wilson and Anderson and Chapin, Gibson, Thompson, Lewis and Rae, Walsh and Lane, Fountain, Sexsmith.

PHYSICS.

Class I.—Thompson, LeMessurier.

Class II.—Southcott, Miller, Macleod, Rae and Walsh, Greggor, Wilson, Lipsett.

Passed.—Maxwell, Robertson, Sexsmith, Uchida.

PHYSICS, LABORATORY.

Class I.—Uchida, Robertson, Wilson.

Class II.—Maxwell and Miller, Greggor and Rae and Sexsmith, Walsh, Thompson.

Passed.—Le Messurier and Southcott, Macleod, Lipsett.

FRENCH.

Class I.—Taylor.

Class II.—Mounce.

Passed.—Dick, Munro, Anderson and Dunton, Chapin, Lipsett.

GREEK.

Class I.—Vermilyea.

Class II.—Gibson.

Passed.—Smith, Wallace, Leslie.

LATIN.

Class I.—Taylor, Mounce.

Class II.—Berry, Shearman, Munro, Gibson, Fountain.

Passed.—Mulhern, Robertson, Carruthers, McIver, Lett.

MORAL PHILOSOPHY.

Class I.—Berry, Shearman, Vermilyea, Mulhern.

Class II.—Dick, Le Messurier, Miller, Wallace, Maxwell and Southcott, Lett, MacMillan, Macleod.

Passed.—Anderson and Carruthers and Chapin, McIver and Robertson and Thompson, Wilson, Smith, Leslie, Rae, Walsh, Lane, Sexsmith, Uchida.

Passed the Second Year Examinations for Course leading to B.A.

(In Order of Merit.)

Class I.—Mennie, E. V. Gordon, Orr, Baker, Russell, Mounce.

Class II.—Pollock, E. J. Jackson, Irving, Drader, Story, Bayly, Johannson, Greenwood, Beattie, Peck, Bunt, French, C. E. Lee, Pauly, Fraser.

Passed.—Hardwick, Smeeton, Mahrer, Berto and Morrison,† Maynard, Mathers and Suggitt, Celle and Geoghegan, Abercrombie and Hope and White, Ballantyne, Abernethy, Archibald, Kerr,* A. H. Miller,† A. W. Lee, Buchanan,* C. Miller, L. Jackson and Muddell, Hagelstein* and Manzer, Mutrie and Rosebrugh* and McCrimmon, Shaw.

The following students, having enlisted for service overseas, were granted their year: Galbraith, W. G. McLellan.†

Standing in the Various Subjects.

(In Order of Merit.)

CHEMISTRY.

Class I.—Drader, Drury and Mennie.

Class II.—Mathers, Irving, French and Russell, Baker, Bunt and Pollock, Morrison, Hope, Berto.

Passed.—Abernethy, C. E. Lee, Fraser, Bayly and Watson, Abercrombie, Hickey and Suggitt, Lawson and Thompson, Archibald and Forrester and A. H. Miller and Shaw, Celle and L. Jackson and Rosebrugh, A. W. Lee, C. Miller, Manzer, Evans and Wright.

CHEMISTRY, LABORATORY.

Class I.—Drury, Mennie, Russell, Drader, Berto.

Class II.—Celle, Irving, Baker, Abercrombie and Archibald and Suggitt, Abernethy and Bayly, Pollock, French, C. E. Lee, A. W. Lee, Rosebrugh, Forrester, Fraser and Morrison, Jones and Shaw and Thompson and Watson.

Passed.—C. Miller, Mathers, Lawson and A. H. Miller, D. J. Gordon, Hickey and Jackson, Hodgins, Wright, Paterson, Evans and Scott, Tupper, Hope, Manzer.

* Supplemental in one subject.

† First Year condition.

ENGLISH COMPOSITION.

Class I.—E. Gordon and Mennie, Peck, Bagley, Pollock, Story, Walkinshaw, Johannson, Orr.

Class II.—Baker, Scott, Irving, Mounce and Bayly, Smeeton, Coates and E. J. Jackson, Bunt and Mahrer, C. E. Lee, Celle and Beattie and Geoghegan, Maynard, Adams, Abernethy and Greenwood, French and Manzer.

Passed.—Suggitt, McCrimmon and Mutrie and Paterson, Abercrombie and Drader and Russell and White and A. H. Miller, Paton and Cameron, Kerr and A. W. Lee, Hope and Fraser, McTavish and Mathers and Hardwick and Pauly, D. J. Gordon and Hagelstein and Morrison, Laidlaw and Berto and Young and Watson, Muddell and C. Miller, Buchanan and Rosebrugh and Third and Wright and Hickey, Archibald and L. Jackson and Lawson, Hill, Thomson and Ballantyne and Hodgins.

ENGLISH LITERATURE.

Class I.—Baker, E. Gordon and Pack, Bayly and Jackson and Pollock.

Class II.—Story, Irving, Mounce, Mahrer, Beattie and Orr, Geoghegan and A. W. Lee and C. E. Lee, Greenwood and Suggitt.

Passed.—Hardwick and Laidlaw, Fraser and Muddell and Mutrie and Paton, Adams and Coates and L. Jackson, Dunton and Hope and McCrimmon and Scott, Thompson, Manzer and White and D. M. Wilson, Cameron and Maynard and Pauly and Watson, A. H. Miller and Morrison, Abercrombie and Abernethy and Bagley, Buchanan, Hagelstein and McTavish and Third, Tupper, Archibald and Rosebrugh, Ballantyne.

ALGEBRA.

Class I.—Mennie, Orr, Kerr, French, E. Gordon and Russell, Bunt.

Class II.—Drader, Mathers, Ballantyne, E. J. Jackson, Beattie, Greenwood, Hardwick, Hickey.

Passed.—Buchanan and Coates and Maynard and Pauly, Celle and Geoghegan, Hope, Johannson.

GEOMETRY.

Class I.—Mennie, E. Gordon, Drader, Hardwick, Orr.

Class II.—Hope and Russell, Kerr, French, Beattie and Greenwood, Coates.

Passed.—Buchanan, Bunt and Mathers, Ballantyne, Johannson, Maynard, Geoghegan.

FRENCH.

Class I.—Pauly, Mennie, E. Gordon, Pollock.

Class II.—Greenwood, E. J. Jackson, Mounce.

Passed.—Beattie, Geoghegan, Ballantyne and Story, Peck, Abercrombie and Hardwick, Archibald and C. E. Lee, Berto and Coates, Drader and Mahrer and White, French and Kerr, McCrimmon and Suggitt, Ross, Mutrie, Abernethy and Muddell and Shaw, McTavish, C. Miller, Mathers.

GERMAN.

Class I.—None.

Class II.—Peck, Hagelstein, Muddell.

Passed.—Smeeton, Manzer.

GREEK.

Class I.—Gordon, Johannson.

Class II.—None.

Passed.—Young, Smeeton, Cameron, Paterson.

Advanced Section.

Class I.—Johannson.

LATIN.

Class I.—E. Gordon, Mennie, Johannson, C. E. Lee, Russell, E. J. Jackson and Mounce and Orr, Beattie and Story.

Class II.—Baker, Bayly and Greenwood, Drader, Pollock, Bunt, French, Scott, Hickey and Peck, Ballantyne and Irving and Pauly, Abercrombie and Archibald and Suggitt, Hardwick.

Passed.—Buchanan and Lawson and White, Abernethy, Berto and Maynard, Coates, Celle and Kerr, Geoghegan, Manzer and Wright, McCrimmon and C. Miller, Mathers and Tupper, Evans and Hope and Laidlaw and A. W. Lee and Mahrer and A. H. Miller, Fraser, Jackson and Morrison, Muddell and Mutrie and Thompson, McTavish.

LOGIC.

Class I.—Mounce, Baker, Orr, Fraser and Russell, Scott.

Class II.—Irving, Morrison, Axon, Bayly, Maynard, Mahrer, Bagley and Smeeton and Story.

Passed.—White, Johannson and C. Miller, Berto and Roseburgh, A. H. Miller, Jackson, Hagelstein, Wells, Evans, McCrimmon and Wright, Adams, Lee and Mutrie, Laidlaw.

PSYCHOLOGY.

Class I.—Baker, Mounce, Russell, Orr, Irving and Scott, Fraser and Story.

Class II.—Mahrer, Bagley and Bayly, Morrison, White, Johannson and C. Miller, Rosebrugh, Laidlaw, Berto and Maynard and Mutrie.

Passed.—A. H. Miller, Smeeton, Evans, Young, Jackson, Hagelstein, Wright, Thomson, McCrimmon and Paton, Adams and Lee, Walkinshaw.

Passed the First Year Examinations for Course leading to B.A.

(In Order of Merit.)

Class I.—Marshall, Ewing,† Barclay, Clyde, Holmes, Griffith.

Class II.—Shaw, Munday, Murray, E. L. Harris, Carne, Godsmark, Fulton and Palmer, Seidelman, A. L. Wheeler, Godfrey, R. V. A. Grant, Garesche, Hamilton,* Tennant, Fox, Hurst and Munnings,* Ferguson, Duke, Stevens, Simpson, K. R. Bradshaw.

Passed.—Allardyce, Clark,* Clement and M. Grant, Pottinger,* A. W. Johnson and Robertson, J. S. Harris, I. Harvey* and Woodward* and Stubbs, D. B. Bolton, Dixon and N. V. Hughes, McIntosh,* Smith, R. Stewart,* Chadwick and McLean, Hay and McInnes, Manson and McGuire,* Gilbert,* Townsend, Crowe, D. M. MacArthur, Emmons* and Timberlake and Vermilyea,* Thompson, Mitchell, Wilband,* Böttger* and Chatwin,* Fallows, Castleman,* J. A. Anderson* and Harvie,* H. M. McArthur,* Bodie* and McNeill, Jardine,* Francis,* Rogers,* Norris,* Terry,* Boyd,* H. L. Johnston,* G. M. Martin, McTavish.*

Norah E. Coy,* special student.

The following students, having enlisted for overseas service, were granted standing: Coughlan, Jeffs, Mathers, Munro.

Standing in the Various Subjects.

(In Order of Merit.)

ENGLISH COMPOSITION.

Class I.—Ewing, E. L. Harris, I. Harvey, Griffith and Shaw, Holmes.

Class II.—Fulton, Munday, Carne and Marshall, Wilband, R. Grant and McGuire and Morgan and Vermilyea, Gilbert and McHeffey and Munnings, Clement and Robertson, Laing and Snelgrove, Emmons and M. Grant and Hamilton and Palmer, Clark and Clyde and Ferguson and Garesche and Godsmark and M. Macdonald and Murray and Stubbs.

Passed.—Dixon and Fraser and H. M. McArthur, K. Bradshaw and Coy and Pottinger, Allardyce and Barclay and Chadwick and Hay and R. Stewart, Bodie and Crowe and Henderson and Johnson and John-

† Matriculation condition.

* Supplemental in one subject.

ston and Tamura and Timberlake, Bolton and Chatwin and Godfrey and J. A. Harvie and D. M. McArthur and McNaughton and A. L. Wheeler, N. V. Hughes and Hurst and McInnes and McNeill and Tennant, Carter and Dill and Fallows and J. S. Harris and Meekison and Stevens and Terry, Cayley and Duke and Fox and Gill and Manson and D. M. McRae and Seidelman and Smith and Thompson, McIntosh and Ray and Simpson, J. A. Anderson and Gray and J. MacDonald and McLean, Burrell and Jardine and H. M. Sargent, E. M. Ballentine and Castleman and Creeden and G. M. Martin and M. Martin and Norris and Ryan and B. H. Sargent and Townsend, Böttger and Burnett and Graham and McTavish and Walsh, H. Bradshaw and Dawe and Hokkyo, Francis and Lehman and Moore and Patterson, S. F. Harris and J. L. Hughes and Mitchell, A. J. Anderson and Rogers, Gordon, Boyd and McCartney and Nelson and Pearson, Aconley and G. W. Stewart and Swencisky.

HISTORY.

Class I.—Munday, Marshall, Ewing, R. V. A. Grant, Godsmark and Hughes and Hurst and Shaw, Griffith, Barclay and Murray, Clyde and Tennant, Stevens, McLean and Wilband.

Class II.—Holmes, Carne and Fox, Gilbert and Palmer and Snelgrove, Jardine and Munnings and A. L. Wheeler, Garesche and Harvey and Stubbs, K. R. Bradshaw, Chatwin and McArthur, J. S. Harris and Seidelman and Smith, Clement and Hamilton, Dill and E. L. Harris, Allardyce and Hay and Lehman and McKinnell and B. H. Sargent and H. M. Wheeler.

Passed.—Chadwick and Dixon and Fulton and Mitchell and Robertson and R. Stewart, Boyd and S. F. Harris, Godfrey and M. Grant and McInnes and Thompson, Burnett and Johnson, Lyons and Manson and Pollinger, J. A. Anderson and Ballentine and Francis and U. F. Hall and J. Martin, Fallows and Laing, Bolton and Crowe and Duke and Emmons and Marling and McNaught and Ryan, Bodie and Carter and Cayley and Creeden and Henderson and McGuire and Norris and Woodward, Ferguson and Pottinger, Gill and Rogers and Vermilyea and Walsh, H. A. Bradshaw and Cowherd and Swencisky and Townsend, H. M. Sargent, Castleman and Johnston and Kerr and Meekison and Simpson, Clark and Coy and Fraser and McHeffey and Terry, McCartney and MacDonald and McNeill, McRae, Burrell and McIntosh and McTavish and G. W. Stewart and Timberlake, MacArthur, Böttger and Gordon and Tamura.

ENGLISH LITERATURE.

Class I.—Ewing, Munday, R. V. A. Grant, Holmes, Hurst, Griffith, I. Harvey.

Class II.—Smith, D. Bolton, Munnings, McGuire, Clyde and Marshall, Chadwick and M. Grant, Carne and Gilbert and H. M. McArthur, Garesche and E. Harris and Laing and Shaw and Vermilyea and Wilband, Godsmark and J. S. Harris and Palmer and Stubbs, Coy and Seidelman and Stevens and Walsh, Fulton and Robertson, Fraser and Hay.

Passed.—Ballentine and Snelgrove, Barclay and Burnett and Hamilton, Tennant and A. L. Wheeler, J. A. Anderson and Burrell and Crowe and MacDonald, Allardyce and Duke, Jardine, Carter and Fox, Chatwin and Manson and C. Miller and Murray and Pottinger, Dixon and Godfrey and N. V. Hughes and McNaught, K. Bradshaw and Castleman and Dawe and A. W. Johnson and Timberlake, Lehman and Thompson, McInnes and McNeill and Norris and Pollinger and R. Stewart, Bodie and Emmons and Hall and Henderson, Böttger and Gray and MacDonald and McLean and Ryan, Fallows and Ferguson and Lyons and McRae, Boyd and Clement and McCartney and McHeffey and B. H. Sargent and Townsend, Moore and Terry, Francis and McTavish and Pearson and Woodward, D. M. MacArthur and G. M. Martin and Mitchell and Simpson, Evans and S. Harris and J. A. Harvie and Meadows.

FRENCH.

Class I.—Griffith, Marshall, Carne.

Class II.—R. V. A. Grant, Simpson, Godfrey, Garesche and Page, Clark and E. S. Harris and McGuire and Munnings, Johnson and Palmer, Henderson and Woodward, Clement and Fox and Munday.

Passed.—Coy and A. L. Wheeler, Fulton and Tennant, Clyde and Duke, Godsmark and Hurst and Murray, Carter and Shaw and Stevens, R. Stewart, K. A. Bradshaw, J. A. Harvie and Laing and Smith, Allardyce and Castleman and Chadwick and Francis and I. Harvey and D. M. McArthur and McIntosh and Thompson, Bain and Bodie and Chatwin and Fallows and N. V. Hughes and McInnes and McKinnell, Ferguson and McNeill, Crowe and Robertson and Townsend and Vermilyea, M. Grant, Burnett and Graham and Hope and Terry, D. Bolton and Boyd and Dixon and Gilbert and Ray and Timberlake and H. M. Wheeler and Wilband, J. S. Harris and Lehman, Hay and G. M. Martin and Mitchell and Norris and Stubbs, Manson and McCartney and Rogers.

BEGINNERS' GERMAN.

Class I.—Griffith.

Class II.—Munnings.

Passed.—Bain, Busemann, M. Macdonald.

GERMAN.

Class I.—I. Harvey.
Class II.—U. F. Hall, Coy.
Passed.—Boyd, McLean and Gray, Snelgrove.

BEGINNERS' GREEK.

Class I.—Ewing.
Class II.—Holmes, Hamilton.
Passed.—Patterson, McNaught.

GREEK.

Class I.—Barclay, Godsmark.
Class II.—None.
Passed.—McLean, Hokkyo, J. A. Anderson.

LATIN.

Class I.—Marshall, Griffith, Barclay, Carne and Shaw, Clyde and Munday, Fulton, Ewing and Fox and Hamilton and E. L. Harris, R. V. A. Grant and Tennant.

Class II.—A. L. Wheeler, Castleman, A. W. Johnson and Seidleman and R. Stewart, Garesché and Stevens, Godsmark, Palmer, Clement and M. Grant and Murray, Holmes, Carter and Hughes and D. M. MacArthur and McInnes, Clark and Godfrey and McIntosh and Simpson and Vermilyea, Chadwick and Laing and Robertson, Duke and Harvie and Munnings and Pottinger and Townsend and Woodward, Hatch and Hay and Hurst, Henderson, Allardyce and Böttger.

Passed.—Harvey and McNeill and Norris, Dixon and McKinnell and McLean, Bodie and Bolton and Chatwin and Gilbert and Lehman, K. R. Bradshaw and Francis and U. F. Hall and J. S. Harris and Stubbs and Timberlake, Ferguson, Cayley and Fallows and McGuire, Bain and Ray and Smith and Thompson and Wilband, Dawe and Manson and Nelson and Walsh, J. A. Anderson, S. F. Harris and G. M. Martin and H. M. McArthur and Meekison and Rogers, H. A. Bradshaw and McCartney and B. H. Sargent, Boyd and Lyons, Creeden and M. Macdonald and McTavish, A. J. Anderson and Kerr, Frame and R. W. Hall and Jardine, H. M. Wheeler, Aconley and Meadows and Mitchell, Crowe and Terry, Johnston, Dill and Gill and Gordon and M. Martin and J. MacDonald.

ALGEBRA.

Class I.—Marshall, Ewing and Fulton, Murray, Clyde and Drury and Hatch, Morgan, Allardyce and E. L. Harris and Griffith, Ferguson and Manson and Mathers and Palmer, Timberlake, Pottinger, Mitchell, Holmes.

Class II.—K. R. Bradshaw, Barclay and Godfrey and Meekison and Munday and Seidelman, Emmons and Garesche and Hay, Fox and Gray and Tennant and A. L. Wheeler, Duke and A. W. Lee, U. F. Hall and N. V. Hughes and Terry, McKinnell, Hamilton and McIntosh, Cayley and Clark and Crowe and Smith, Clement and Gilbert, Chadwick and Dixon and R. Stewart and Swencisky, Dawe and Godsmark and S. F. Harris.

Passed.—Carne and Carter and McNeill, Hokkyo and Johnson and D. M. McArthur and McTavish, Aird and Francis and Simpson, Aconley and Burnett and Kerr and McInnes and B. H. Sargent, Dill and Frame and R. V. A. Grant and Vermilyea, D. Bolton and Chatwin, Graham and J. S. Harris and Tamura, Gordon, Laing and H. M. McArthur and McGuire and Third, M. Grant and Robertson and Scott, Bain and Böttger and J. A. Harvey and Lewis, Creeden and Hurst and Meadows, Jeffs, McLean and Rogers and Townsend, Coy and Gill, H. A. Bradshaw and Fallows and Hodgins and M. Martin and Stevens and Stubbs, G. M. Martin and Moore and G. W. Stewart and Williams, Bodie and Jardine and Norris, Castleman and Coughlan and Lyons and Nelson and Trapp.

GEOMETRY.

Class I.—Marshall, Clyde, Murray, Ewing and Gordon and A. L. Wheeler, Morgan, Carne, Palmer, Munday, Duke and Ferguson and Godfrey, Garesché, Emmons and E. L. Harris, Hokkyo.

Class II.—K. R. Bradshaw and Creeden and Fulton and Woodward, J. S. Harris and Seidelman, Shaw, Griffith and Stubbs, Hay, Barclay and Crowe and Mitchell, Manson, Dawe and Dixon and Drury and Holmes and Godsmark and McLean and B. H. Sargent and Simpson and Stevens, U. F. Hall, Cayley and Tamura, Pottinger and Rogers, H. A. Bradshaw and Hatch and Jardine and Nelson.

Passed.—Gilbert and G. W. Stewart, Clark and Hamilton and N. V. Hughes and Johnston and McInnes and McKinnell, Bolton and Hurst and Meekison, Allardyce and Clement and M. Grant and Marling and McIntosh and Meadows and Robertson and H. M. Sargent and Smith, Swencisky and Thompson, McNeill, Gray and S. F. Harris and Lehman and Tennant, J. A. Anderson and Böttger and Fox and Kerr, Chatwin and Johnson and Munnings and R. Stewart, Norris and Timberlake, Chadwick and Dill and J. A. Harvie and G. M. Martin and Walsh, Graham and R. V. A. Grant and Townsend, Bodie and Ryan, Ballentine and Wilband, Pearson, Carter and Lyons, Scott and Snelgrove, H. M. McArthur and McTavish and Terry, D. M. MacArthur and H. M. Wheeler, Fallows and Francis and Harvey.

TRIGONOMETRY.

Class I.—Marshall, Drury, Clyde, Ewing, E. H. Harris, Murray and Morgan, Barclay and Holmes, Hatch, Emmons and Godsmark, Shaw, Gray, Fulton and Godfrey and Seidelman.

Class II.—Ferguson, Duke and Moscrop, Crowe and Dixon and A. L. Wheeler, Lee, Pottinger, Clark and Hurst and McInnes and Thompson, A. W. Lee and Manson and B. H. Sargent and Townsend, Dawe and Munday, K. R. Bradshaw and Garesché and Simpson and Timberlake, Bolton and Palmer, Mitchell.

Passed.—Allardyce and U. F. Hall and Johnston, McKinnell, J. S. Harris and Smith and Tennant, Clement, Fox and M. Grant and Vermilyea, S. F. Harris and Hay and Meekison and R. Stewart and Terry, Creeden and McIntosh, D. M. MacArthur, Hokkyo and N. V. Hughes and MacLennan and Stevens, Chadwick and Dill and Fallows and Jardine and G. W. Stewart, H. M. McArthur and Robertson, Stubbs and Tamura, Gordon, Kerr and Nelson and Woodward, Johnson and Meadows, Graham, Böttger and Carne and R. V. A. Grant and McTavish and Snelgrove and Swencisky, A. J. Anderson and Aconley and McNaught, H. A. Bradshaw and Laing and G. M. Martin and McNeill.

PHYSICS.

Class I.—Marshall and Shaw, Murray, Ewing, Clyde and Holmes, Ferguson, Emmons.

Class II.—Hamilton and Palmer, Dawe and McIntosh and Stubbs, Robertson, Drury and J. S. Harris and Pottinger, Böttger and Godfrey, Allardyce and K. R. Bradshaw, D. Bolton, Dixon and Fulton and Ryan, R. W. Hall and A. L. Wheeler and Woodward, Barclay and Meekison and Munday and Seidelman, Ballentine and Carne and E. L. Harris and Rogers, M. Grant and R. V. A. Grant.

Passed.—Gray and Tennant, Gilbert and Hurst and Mitchell, J. A. Anderson and Johnston, Hatch and Manson and Meadows and Munnings and Simpson and Stevens and Townsend, Burrell and Clark and Clement, Crowe and D. M. MacArthur and McTavish, Duke and Fox and McGuire and McLean, Aconley and Fallows, A. J. Anderson and Castleman and Francis and Johnson, Coy and Hokkyo and Jardine and H. M. McArthur, Smith, Bodie and H. A. Bradshaw and Fraser and Kerr and Marling and Ray, Dill and Gill and Hay and Moore and McInnes and Timberlake, Cayley and Forrester and I. Harvey and I. M. Jones and Norris and Wilband, Hughes and Snelgrove, Chatwin and Garesché and J. A. Harvie and Macdonald and Nelson and Pearson and B. H. Sargent and Walsh, Gordon and McNaught and McRae and G. W. Stewart and Thompson and H. M. Wheeler,

MacLennan and Swencisky, Carter and Chadwick and Creeden, Griffith and G. M. Martin and M. Martin and H. M. Sargent and Scott and Tamura, McNeill.

PHYSICS, LABORATORY.

Class I.—Marshall and Murray, Woodward, Holmes, Clyde and Palmer, Ewing, Drury, Fraser, Barclay, J. S. Harris and R. Stewart and Stubbs, Carne and Mitchell and Forrester, Chadwick and Stevens.

Class II.—Duke and E. Harris and A. L. Wheeler, N. V. Hughes and Munday and Pottinger and Simpson, Cowherd and Emmons and Gray and M. Grant and G. M. Martin and Shaw, Ferguson and Hay and McNaught and Terry and Scott, J. A. Anderson and K. R. Bradshaw and Jones and Manson and Tennant and G. W. Stewart, Fox and McIntosh, Burrell and S. Harris and Lehman and Ryan and Wilband, Carter and Gordon, Clark and Francis and M. Martin and Marling and Meekison and Smith and Robertson, Allardyce and H. Bradshaw and Garesché and A. Johnson and B. H. Sargent and H. M. Sargent, Böttger and Burnett and Dawe and Dill and Nelson and Norris and Timberlake and Townsend and Vermilyea and H. M. Wheeler, Fallows and Fulton and Godfrey and J. Harvie and McKinnell and Rogers and Patterson and N. Thompson, Munnings, Boyd and Crowe and Creeden and Hurst and J. Macdonald and H. McArthur and Swencisky, Hokkyo and Kerr.

Passed.—A. J. Anderson and Gilbert and Hatch and H. Johnston and Lyons and McRae, D. Bolton and Griffith and McGuire and Ray, Aconley and Jardine and McCartney and McHeffey, Chatwin and Cayley and Coy and McTavish, McInnes and Seidelman, Pearson, Castleman and D. M. McArthur, Dixon and A. Grant and I. Harvey and Tamura, Clement, Snelgrove, Bodie and Hall, Meadows, McNeill and Moore, Laing, Ballentine and Gill and Graham and Hamilton, M. MacDonald, McLean, Henderson, McCrimmon.

FACULTY OF APPLIED SCIENCE.

Passed the Second Year Examinations for Course leading to B.Sc.

(In Order of Merit.)

Class I.—None.

Class II.—Stone, Drury, Wright, Payne.

Passed.—Letson.

The following students, having enlisted for service overseas, were granted standing (alphabetical order): Clement, Creery, Hardie, Lord.

The following students have been granted conditional standing: Galloway, Helme, Lambert, MacMillan, Watts.

Standing in the Various Subjects.

(In Order of Merit.)

PHYSICS.

Class I.—Galloway.
Class II.—Stone, Wright, Payne, Drury.
Passed.—Pearcy, Letson, Lambert and MacMillan.

PHYSICS, LABORATORY.

Class I.—Stone, Wright, Galloway.
Class II.—Payne, Drury, Lambert and Letson.
Passed.—Pearcy, MacMillan, Ingersoll.

MECHANICAL DRAWING.

Class I.—Drury.
Class II.—Letson, Stone, Wright.
Passed.—MacMillan and Payne, Mitchell, Galloway, Lambert.

SUMMER READING.

Class I.—None.
Class II.—Payne, Hardie.
Passed.—Drury and Lambert, Creery, Mitchell, MacMillan, Lord and Stone and Wright and Ingersoll.

SURVEYING.

Class I.—None.
Class II.—Stone, Drury and Lambert, Galloway, Letson, MacMillan.
Passed.—Payne, Wright, Watts.

FIELD SURVEYING.

Class I.—Hardie, Galloway.
Class II.—Stone, Lord and Wright, Clement and Payne, Creery, Drury, Lambert.
Passed.—Mitchell, Letson and MacMillan, Ingersoll, Pearcy.

SHOP-WORK.

Class I.—Letson, Drury.
Class II.—Galloway and Stone, Payne.
Passed.—Ingersoll and Wright, Lambert, MacMillan.

CHEMISTRY.

Class I.—Galloway.
Class II.—Stone, Payne and Wright, Drury.
Passed.—Lambert, Watts, Letson and Pearcy, MacMillan, Helme.

CHEMISTRY, LABORATORY.

Class I.—None.
Class II.—Stone, Wright.
Passed.—Drury and Payne, Lambert, MacMillan and Watts, Letson, Ingersoll and Pearcy, Helme.

MECHANICS OF MACHINES.

Class I.—Galloway.
Class II.—Stone, Wright, Drury and Lambert, Payne.
Passed.—Letson, MacMillan, Watts, Helme.

CALCULUS.

Class I.—Payne.
Class II.—Drury, Stone, Wright, Galloway.
Passed.—Watts, Lambert, MacMillan, Letson, Helme.

ANALYTICAL GEOMETRY.

Class I.—Wright.
Class II.—Galloway, Payne, Stone, Clement.
Passed.—Drury, Creery and Mitchell, Letson, Hardie and Lord and MacMillan and Watts, Plummer.

MECHANICS.

Class I.—None.
Class II.—Galloway, Wright, Payne, Drury.
Passed.—Stone, Lambert, Letson, MacMillan, Helme, Watts.

MATERIALS OF CONSTRUCTION.

Class I.—Galloway.
Class II.—Stone and Wright, Lambert and MacMillan, Drury and Letson, Pearcy.
Passed.—Payne and Ingersoll, Watts, Helme.

GRAPHICAL STATICS.

Class I.—Drury, Payne, MacMillan, Watts, Stone, Wright.
Class II.—Galloway and Lambert, Ingersoll, Pearcy.
Passed.—Letson.

MAPPING.

Class I.—Galloway, Drury, Stone.
Class II.—MacMillan, Payne, Ingersoll, Letson, Lambert, Wright, Pearcy.

Passed the First Year Examinations for Course leading to B.Sc.

(In Order of Merit.)

Class I.—Morgan.
Class II.—Stewart, Doell, McDonald, Scott, Pim.

Passed.—Rose, Carter, Austin, Emmons.

The following students, having enlisted for service overseas, were granted standing (alphabetical order): Fowler, Fraser, Harvey, Morrison, Weart, Woodward.

The following students have been granted conditional standing (alphabetical order): Bissett, L. F. Bullard, R. J. Bullard, Cameron, Drewry, Gillie, McKay, Thompson, Whitley, Williams, F. R. Wilson.

Standing in the Various Subjects.

(In Order of Merit.)

FREEHAND DRAWING.

Class I.—Doucet.

Class II.—Austin and Doell, Emmons, Williams, Goodman, Gillie and McDonald and Pim, Morgan, Drewry.

Passed.—Bissett and Shaw, Bickell and Whitley, R. Bullard and Carter and Thompson, L. Bullard, Bush and Ettershank, Rose and F. Wilson, Cameron, McKay, Stewart and H. Wilson.

MECHANICAL DRAWING.

Class I.—Doucet and Morgan.

Class II.—Emmons and McDonald, Drewry, Stewart, Cameron and Carter and Doell and Thompson, Austin, Whitley, Bush and Rose, Shaw.

Passed.—L. F. Bullard and R. Bullard and Goodman, Bickell and McKay and H. A. Wilson, F. R. Wilson, Williams, Ettershank, Bissett, Gillie.

SHOP-WORK.

Class I.—Morgan.

Class II.—Stewart, Emmons and McKay, Doell and Drewry and McDonald, Whitley, Rose and Thompson, Bickell and L. F. Bullard and Carter, H. A. Wilson, Austin and Gillie and F. R. Wilson, Bush and Cameron and Goodman, Bissett, Doucet and Williams.

Passed.—R. J. Bullard, Galloway, Shaw, Ettershank.

ENGLISH.

Class I.—None.

Class II.—Austin, Gillie and Thompson.

Passed.—Stewart and F. R. Wilson, McDonald and Williams, Emmons, Drewry and Goodman, Carter, Whitley, L. F. Bullard and Pim, H. A. Wilson, Bickell and Bissett and Bush and Cameron and Doucet and Scott and Rose.

PHYSICS.

Class I.—Morgan, McDonald, Stewart.

Class II.—Austin, Pim, Doell, Drewry, McKay, Emmons.

Passed.—Scott, L. F. Bullard and Carter, Williams, Thompson, Bissett, Gillie, Rose and H. Wilson, R. J. Bullard, F. R. Wilson.

PHYSICS, LABORATORY.

Class I.—Morgan, Scott, Pim, McDonald, Stewart.

Class II.—Austin and McKay and Whitley, Carter, Cameron and Doell and Rose, Thompson, F. R. Wilson, Bickell.

Passed.—L. F. Bullard and Bush and Doucet, Gillie and Goodman and Williams, Emmons, Bissett, Drewry, Shaw, R. J. Bullard, Ettershank and H. A. Wilson.

MECHANICS.

Class I.—Morgan.

Class II.—Stewart, McDonald.

Passed.—Doell, Coates and Pim, Austin, McKay, L. F. Bullard, Bissett, Carter and Rose and Williams, Emmons.

DESCRIPTIVE GEOMETRY.

Class I.—Morgan, Scott.

Class II.—Pim, Doell, Bissett.

Passed.—McDonald, Drewry, Rose, Carter, Austin, L. F. Bullard and Stewart and F. R. Wilson, Ettershank and Thompson, Cameron and Whitley, Emmons, Gillie.

ALGEBRA.

Class I.—Morgan, Scott, Stewart.

Class II.—Rose, Doell and Pim, McDonald and L. F. Bullard.

Passed.—Carter, Drewry, McKay, Gillie, Bissett, Cameron and Thompson, H. A. Wilson, Austin and R. J. Bullard, Williams, Emmons and F. R. Wilson.

GEOMETRY.

Class I.—Morgan, Stewart.

Class II.—Doell, Lambert and Scott and Rose, McKay, Pim and L. F. Bullard, F. R. Wilson, Woodward.

Passed.—Emmons, McDonald, Williams, Austin and Carter, Drewry and Fowler and Bissett, Whitley and Bush, Gillie and Harvey, Cameron and R. J. Bullard and Fraser and Morrison and Shaw and Weart.

TRIGONOMETRY.

Class I.—Morgan.

Class II.—Stewart.

Passed.—Doell, McDonald, Carter, L. F. Bullard, Drewry, Scott, Rose, Pim, McKay, Emmons, Austin, R. J. Bullard and Doucet and Whitley.

(2.) LIST OF MEMBERS OF CONVOCATION OF THE UNIVERSITY OF BRITISH COLUMBIA.

(Alphabetically arranged, with degrees received, and Key List, showing University conferring same.)

KEY LIST OF UNIVERSITIES REPRESENTED.

1. Appointed by the Lieutenant-Governor in Council.
2. Aberdeen University, Aberdeen, Scotland.
3. Acadia University, Wolfville, N.S.
4. Adelaide University, Adelaide, South Australia.
5. Bishop's College, Lennoxville, Que.
6. Cambridge University, England.
7. Chicago University, Chicago, U.S.A.
8. Clark University, Worcester, Mass.
9. Columbia University, New York, N.Y.
10. Dalhousie University, Halifax, N.S.
11. Durham University, Durham, England.
12. Edinburgh University, Edinburgh, Scotland.
13. Glasgow University, Glasgow, Scotland.
14. Halifax University, Halifax, N.S.
15. Harvard University, Cambridge, Mass.
16. Illinois Wesleyan University.
17. King's College, Windsor, N.S.
18. Laval University, Quebec and Montreal.
19. Leland Stanford Jr. University, Palo Alto, Cal.
20. Liverpool University, Liverpool, England.
21. London University, London, England.
22. Manchester University, Manchester, England.
23. Manitoba University, Winnipeg, Man.
24. Montreal University, Montreal, Que.
25. McGill University, Montreal, Que.
26. McMaster University, Toronto, Ont.
27. Mount Allison University, Sackville, N.S.
28. New Brunswick University, Frederickton, N.B.
29. Ottawa University, Ottawa, Ont.
30. Oxford University, Oxford, England.
31. Queens University, Kingston, Ont.
32. Royal College of Science, Dublin, Ireland.
33. Royal Military College of Canada, Kingston, Ont.
34. Royal University of Ireland, Dublin, Ireland.
35. Saskatchewan University, Saskatoon, Sask.

36. St. Andrews University, Dundee, Scotland.
37. St. Francis Xavier University, Antigonish, N.S.
38. St. Joseph's University.
39. Toronto University, Toronto, Ont.
40. Trinity College, Dublin, Ireland.
41. Trinity University, Toronto, Ont.
42. Victoria College, Coburg, Ont.
43. Victoria University, Toronto, Ont.
44. Wesleyan College, Montreal, Que.
45. Western University, London, Ont.

Acheson, William Clinton, Vancouver ..... M.B. 39
Anderson, Frederick W., Kamloops ..... B.Sc. 25
Anderson, Goldie Fraser, Vancouver ..... B.Sc. 25
Anderson, William Gernet, Vancouver ..... B.A. 39, LL.B.
Andrews, Frank, Victoria ..... B.A. 3
Anning, Norman Herbert, Chilliwack ..... M.A. 31
Anstey, Arthur, Vancouver ..... B.A. 21
Arbuckle, J. W., Vernon ..... M.D. 25
Archibald, Henry Patton, Vancouver ..... B.A.Sc. 25
Archibald, James Ross, Kamloops ..... B.A. 10, LL.B.
Archibald, M. G., Kamloops ..... M.D., C.M. 10
Argue, William Pirritte, Vancouver ..... B.A. 23
Armour, Douglas, Vancouver ..... B.A. 39
Armstrong, James Arthur, Rossland ..... B.A. 3, M.A. 3
Arthur, Edward Charles, Nelson ..... B.A. 42, M.A. 42, M.D. 41
Ashmore, Richard Howell, Eburne Station ..... B.A. 34
Ashton, John Joseph, New Westminster ..... B.A. 31, B.D. 44
Auld, J. W., Vancouver ..... M.D., C.M. 25
Babcock, J. P., Victoria 1
Bagshaw, Frank, Vancouver ..... B.Sc. 25
Baird, Mary Christina, Vancouver ..... B.A. 39
Baird, William Joseph, Vancouver ..... B.A. 39, M.A., LL.B.
Baker, Frances Edna, Vancouver ..... B.A. 23
Baker, Herbert W., Vancouver ..... B.A. 31
Baker, Ray Palmer, Summerland ..... B.A. 45
Balderstone, Benjamin Hedley, Victoria ..... B.A. 27, B.D.
Bapty, Walter, Victoria ..... M.D. 45
Barrett, William Thomas, Vancouver ..... M.D. 23
Barron, Thomas John, Courtenay ..... B.A. 25
Baskin, William Gerald, Victoria ..... B.A.I. 28
Bastin, Charles Howden, Vancouver ..... M.D. 23
Bates, Reginald Heber, Vancouver ..... B.A. 5
Bayfield, Henry Arthur, Vancouver ..... B.A.Sc. 25

Bayfield, Geoffrey E., Vancouver ..... M.D. 25
Beacham, Havelock, Vancouver ..... B.A. 25
Bechtel, Arthur Daniel, Victoria ..... M.D. 25, C.M.
Beckwith, Harold Arthur, Victoria ..... B.A. 25
Beeston, Cyril Gainsborough, Nelson ..... B.A. 23
Bennett, Allan Edward Hingston, Kamloops ..... M.D., C.M. 31
Bennett, Charles Vincent, Prince Rupert ..... B.A. 31
Black, George Duncan Ralph, Vancouver ..... M.D., C.M. 39
Blaycock, Selwyn Gwillym, Trail ..... B.Sc. 25
Boak, Arthur Edward Romilly, Vancouver ..... M.A. 31
Boak, Henry Westman Conroy, Vancouver ..... B.L. 10
Boggs, George Washington, Vancouver ..... M.D., C.M. 25
Bolton, William Washington, Victoria ..... M.A. 6
Booth, Patrick Dick, Vancouver ..... B.Sc. 12
Bonnel, Saul, Fernie ..... M.D. 25
Boucher, Robert B., Vancouver ..... M.D., C.M. 25
Bowser, William John, Victoria ..... LL.B. 10
Boyce, B. de Furlong, Kelowna ..... M.D. 25
Boyd, J. Bruce, Vancouver ..... B.A. 25
Boyd, Robert Sinclair, Vancouver ..... B.A. 40
Boyle, Robert Clarke, Vancouver ..... M.D., C.M. 23
Bradshaw, George Karn, Vancouver ..... B.A. 39
Bray, Harry Randle, Vancouver ..... B.A. 30, 39
Brennan, George Eric, Vancouver ..... B.Sc. 25
Brett, Augustus Jasper Wolsley, Vancouver ..... D.D.S. 39
Brewster, H. C., Victoria 1
Bride, William Wesley, South Hill ..... M.D. 23
Bristol, Charles Frederick, Vancouver ..... B.Sc. 25
Brodie, William S., Vancouver ..... M.A. 10
Broe, Lawrence, Vancouver ..... M.B. 39
Brough, Thomas Allardyce, Vancouver ..... B.A. 31
Brown, John, Vancouver ..... B.A., M.D., C.M. 23
Brouse, J. E., New Denver ..... M.D. 25
Bruce (*née* Baker), Elma, Vancouver ..... B.A. 10
Brydone-Jack, Arthur Canby, Vancouver ..... B.A., M.A. 28
Brydone-Jack, Frederick William, Vancouver ..... M.D. 25
Brydone-Jack, Herbert Disbrow, Vancouver ..... B.Sc. 25
Brydone-Jack, William Disbrow, Vancouver .....
..... B.A. 28, L.R.C.P. 12, L.R.C.S. 12
Buchan, Percy Halcro, Vancouver ..... B.A.Sc. 39
Buchanan, Leo, Vancouver ..... B.A. 39, LL.B. 39
Buisson, Arthur, Trail ..... B.Sc. 18
Buller, Frederick James, Vancouver ..... B.A. 39, M.B. 39
Burch, Arthur Lafayette, Vancouver ..... B.A. 39

Burley (*née* Ham), Alice Mary, Vancouver ..... B.A. 23
Burnett, Edgar A., Vancouver ..... B.A. 23
Burnett, George Haliburton, Vancouver ..... B.A.I. 28
Burnett, William Brenton, Vancouver ..... B.A. 3, M.D., C.M. 25
Burns, William, Vancouver ..... B.A. 31
Burns, William Ernest, Vancouver ..... B.A. 39
Burris, Grace D., Victoria ..... M.A. 10
Burris, J. S., Kamloops ..... M.D. 25
Burritt, William Edmund, Prince Rupert ..... B.A. 39
Buttrum, Harold St. George, Vancouver ..... B.A. 25
Cade, John P., Prince Rupert ..... M.D., C.M. 39
Cameron, Angus Wylie, Prince Rupert ..... B.A. 25, B.C.L. 25
Cameron, Arthur Garfield, Vancouver ..... B.A. 31
Cameron, Charlotte Alice, Vancouver ..... B.A. 31
Cameron, Charles John, Vancouver ..... B.A. 31, M.A. 31
Cameron, Elizabeth Jane, Vancouver ..... B.A. 26
Cameron, George Frederic, Vancouver ..... B.A. 31
Campbell, Charles Foster, Vancouver ..... LL.B. 23
Campbell, Charles McKinnon, Phoenix ..... B.Sc. 25
Campbell, Daniel Gordon, Vancouver ..... B.A. 39
Campbell, Edmund Ernest, Phoenix ..... B.Sc. 25
Campbell, Ivan Glen, Vancouver ..... M.D., C.M. 25
Campbell, John, Victoria ..... B.A. 39, M.A. 39
Campbell, John Augustine Ewart, Vancouver ..... M.D. 25
Campbell, John Lachlan, Abbotsford ..... B.A. 39
Campbell, Kate Gertrude, Enderby ..... B.A. 39
Campbell, Mary B., Vancouver ..... M.D. 39, M.C.P. & S.
Cann, Jeanette A., Victoria ..... B.L. 10
Carder, Edwin Dixon, Vancouver ..... B.A. 39, M.B. 39
Carter, William Frederick, Vancouver ..... B.A.Sc. 25, B.C.L. 25
Carter-Cotton, F. L., Vancouver 1
Cartwright, Conway, Britannia Beach ..... M.D. 25
Casselman, Vester Ernest David, Vancouver ..... M.D. 23
Castleman (*née* Wickham) Escotte, Rosedale ..... B.A. 39
Cayley, Hugh St. Questin, Vancouver ..... B.A. 39
Champion, Benjamin Hiram, Vancouver ..... M.D. 25
Chandler, A. B., Rossland ..... M.D. 25
Chandler, G. Forsythe, Colquitz ..... B.A. 25
Chodat, Henri, Vancouver ..... B.A. 25, M.A. 25
Cheeke, George Alfred Moseley, Cobble Hill ..... B.A. 30
Church, John W., Victoria ..... B.A. 11, M.A. 11
Clark, Annie Sophia, Vancouver ..... B.A. 3
Clark, George Whitcomb, Ladysmith ..... B.A. 31, M.A. 31
Clark, Judson F., Vancouver ..... B.S.A. 39

Clark, Richard Joseph, Hope ..... M.A. 31
Clarke, Earl Winton, Victoria ..... B.A. 26
Clarke (*née* Potts), Georgiana Barbara, Victoria ..... B.A. 41, M.A. 41
Clay, William Leslie, Victoria ..... B.A. 25, B.D. 25
Clearihue, Albert Maitland, Victoria ..... Phm.B. 41
Clearihue, Joseph Badenoch, Victoria ..... B.A. 25
Cleland (*née* Chambers), Annie, Victoria ..... M.D., C.M. 41
Clement, Richard Vercoe, Vernon ..... B.A. 39, LL.B. 39, B.C.L. 39
Clement, William Henry Pope, Vancouver ..... B.A. 39, LL.B. 39
Coates, Horace W., Vancouver ..... M.D., C.M. 25
Coburn, Arthur, Vancouver ..... B.A. 30
Code, Lorne Bruce, Vancouver ..... B.Sc. 31
Coldwell, Ross F., Vancouver ..... B.Sc. 3, M.A. 3
Conklin, James Scott, Vancouver ..... M.D., C.M. 23
Connor, Charles Frederick, Merritt ..... B.A. 39, M.A. 39
Connolly, Arthur Kellogg, Salmon Arm ..... M.D., C.M. 31
Coombs, Florence, Vancouver ..... B.A. 10
Copeland, Briswell Methven, New Westminster ..... Phm.B. 39
Corsan, Douglas, Fernie ..... M.D. 25
Coulthard, Walter Livingstone, Vancouver ..... M.B. 39
Coverton, Charles Frederick, Vancouver ..... M.D., C.M. 25
Cowan, George Henry, Vancouver ..... B.A. 39
Cowperthwaite, Frederic Moses, Vancouver ..... B.A. 28
Coy, William Filmer, Vancouver ..... M.D., C.M. 31, M.R.C.S.
Creelman, Amelia, Vancouver ..... B.A. 10
Creery, Andrew McCreight, Vancouver ..... B.A. 40
Crombie, Isaac, Vancouver ..... B.A. 3, M.A. 3
Crosby, Robert, Vancouver ..... M.B. 39
Crowe, Roland Chaplin, Vancouver ..... B.A. 26
Cruickshank, Lilian Elizabeth, Matsqui ..... B.A. 39
Cumming, Alison, Vancouver ..... B.A. 10, M.D., C.M. 10
Cumming, Lucy, Vancouver ..... B.A. 31
Cumming, William Gordon, Sidney ..... M.D. 25
Cummings, Alfred, Fernie ..... B.Sc. 31
Cunningham, Frances Muriel, Dartmouth, Nova Scotia ..... B.A. 10
Cunningham, John Wilson, New Westminster ..... B.A. 39
Currie, Herbert Harding, Nelson ..... B.A. 3
Currie, Mary Irene, Nelson ..... B.A. 3
Curtin, Thomas Vanston, Merritt ..... M.D., C.M. 31
Davidson, James Grant, Vancouver ..... B.A. 39
Davidson, John Wilson, Kelowna ..... B.A. 39
Davies, Aubrey Hugh, Vancouver ..... B.A. 6, M.B., B.C. 6
Davis, Angus Ward, Nelson ..... B.Sc. 25
Davis, Edward Pease, Vancouver ..... B.A. 39

Davis, Lewis Thomas, Victoria ..... M.D., C.M. 31
Dawson, George Herbert, Victoria ..... B.A.Sc. 25
Daykin, Alfred Norman, Vancouver ..... B.A. 23
d'Easum, Geoffrey Cyril, New Westminster ..... M.A. 23
De Beck, Edwin Keary, Vancouver ..... B.A. 25
De Beck, Howard Clarke, Vernon ..... B.A. 39
De Pencier, A. U., Vancouver ..... B.A. 41, M.A. 41, D.D. 41
Denovan (*née* Paterson), Eliza Henriett Richardson, Victoria .....
..... M.D., C.M. 43
Denton, Vernon Llewellyn, Vancouver ..... B.A. 3
Dicky, Hugh L., Vancouver ..... M.D., C.M. 10
Dickson, Charles William, Kelowna ..... M.A. 31, Ph.D. 9
Dickson, William Howard, Phoenix ..... M.D. 25
Dixon, Margaret, Vancouver ..... B.A. 25
Dobson, Frank Hopper, Vancouver ..... B.A. 39
Doherty, Charles Edward, New Westminster .....
..... M.D., C.M. 39, F.T., M.C.
Dole, Harvey Peter, Vancouver ..... B.A. 28, M.A. 28
Douglas, Robert James, Chilliwack ..... B.A. 25
Dowler, Wellington Jeffers, Victoria ..... B.A. 39
Downie, Donald, Vancouver ..... B.C.L. 25
Draeske, Gordon Cecil, Vancouver ..... M.B. 39
Drew, Jessie Evelyn, New Westminster ..... B.A. 39
Drier, Newton Ezra, Vancouver ..... M.D. 25, F.R.C.S. 12
Drummond, Jean Scott, Vancouver ..... B.A. 39
Drysdale, W. Frederick, Nanaimo ..... M.D. 25
Duncan, George Edward, Vernon ..... M.D. 23
Dunning, John T., Vancouver ..... B.A. 41, M.A. 41
Dutcher, Howard Ketchum, Vancouver ..... B.Sc. 25, M.Sc. 25
Dykes, Watson, Duncan ..... M.D. 25
Earle, Harry, Vancouver ..... B.Sc. 25
Edwards, Geoffrey Lloyd, Vancouver ..... B.A. 6
Eggert, C. A., Prince Rupert ..... M.D. 25
Eldridge, Gardner Smith, Vancouver ..... B.Sc. 25
Elliott, Byron Stevenson, Vancouver ..... M.B. 39
Elliott, Percy Harris, Victoria ..... M.Sc. 25
Elliott, William, Vernon ..... B.A. 39
Ellis, Joseph Nelon, Vancouver ..... B.C.L. 17
Ellis, Robert Walter, Vancouver ..... B.A. 25
Ellison, Myra King, Vernon ..... B.A. 25
Emerson, John, Vancouver ..... B.A. 25
English, John Molineux, Vancouver ..... M.D., C.M. 25
Evans, Allan Roy, New Westminster ..... B.A. 23
Everton, Samuel, Vancouver ..... B.A. 23

Ewing, William T., Chemainus ..... M.D. 25
Falkner, James, Vancouver ..... B.A. 31
Fallis, George Valentine, Victoria ..... B.A. 23
Farris, John Wallace deBeque, Vancouver ..... B.A. 3
Farris, Evelyn F. Keirstead, Vancouver ..... B.A. 3
Farris, Wendall Burpee, Vancouver ..... B.C.L. 17
Fillmore, Charles L., Vancouver ..... B.A. 27
Fisher, Alexander Ingram, Fernie ..... B.A. 39
Fisher, John McNee, Vancouver ..... Phm.B. 39
Fisher, Nicholas Rigby, Vancouver ..... B.A. 23
Fisher, Simeon Whidden, Ladner ..... Phm.B. 39
Fleming, Robert William, Nelson ..... B.A. 31
Ford, Henry Bernice, Vancouver ..... M.D., C.M. 31
Ford, John Whitfield, Vancouver ..... M.B. 39
Foreman, Aloah Ernest, Victoria ..... B.Sc. 25
Forsythe, Robert B., Rossland ..... B.A. 10
Foster, George May, Vancouver ..... M.D. 25
French, Mabel Penery, Vancouver ..... B.C.L. 17
Frost, Anson C., Ladysmith ..... M.D. 25
Fuller, Aubrey Taylor, Vancouver ..... B.A. 27, M.D., C.M. 25
Fuller (*née* Dunham), Louise McClellan, Vancouver ..... B.A. 3
Fulton, Clarence, Vernon ..... B.A. 10
Funk, Edwin Henry, Vancouver ..... M.D. 25
Galloway, John Davidson, Vancouver ..... M.Sc. 25
Gamble, Clark William, Vancouver ..... B.Sc. 25
Ganton, David William, Victoria ..... B.A. 39, M.A. 39
Garden, J. F., Vancouver 1
Gardiner, William James, Vancouver ..... B.A. 39
Garrett, Herbert Gascoigne, Victoria ..... B.A. 30
Gatewood, Charles H., Vancouver ..... D.D.S. 1
Gaunce, William Grant, Victoria ..... B.A. 28
Gibbins, Gynne Gilbert, Vancouver ..... B.A. 25, M.Sc. 25
Gibson, Richard, Vancouver ..... M.D. 25
Gifford, William Alvy, New Westminster ..... B.A. 39, B.D. 43
Gill, Peter Clark, Vancouver ..... B.Sc. 25
Gillam, John D., North Vancouver ..... M.A. 12
Gillies, Bertram William Digby, Vancouver ..... M.D. 25
Gillies, George Ackland, Vancouver ..... M.Sc. 25
Gillies, George Ernest, Vancouver ..... M.D. 25
Gillespie, James A., Cumberland ..... M.D., C.M. 5
Gillespie, Thomas Leslie, East Kelowna ..... B.A. 34
Goodstone, Albert Isidore, Vancouver ..... B.C.L. 25
Gordon, Daniel Marshall, Victoria ..... B.A. 25
Gordon, George Sinclair, Vancouver ..... M.D., C.M. 25

Gordon, John Simpson, Victoria ..... B.A. 25
Gourlay, Henry Beauchamp, Vancouver ..... M.D., C.M. 25
Gourlie, William G., Vancouver ..... B.A. 23
Gower, Gordon H., Vancouver ..... B.A. 3, M.A. 3
Grimmett, Martin Luther, Merritt ..... LL.B. 23
Graham, Ada Ernestine, South Vancouver ..... B.A. 39
Graham, Colin Wolseley, Vancouver ..... M.D., C.M. 31
Graham, David Alexander, Vancouver ..... B.Sc. 39
Graham, Felitia, New Westminster ..... B.A. 39, M.A. 39
Graham, John Albert, Vancouver ..... M.D. 23
Grainger, Martin Allerdale, Victoria ..... B.A. 6
Green, Cecilia Rebecca, Victoria ..... B.A. 25
Green, Frank Compton, Victoria ..... B.A. 28
Green, F. W., Cranbrook ..... M.D. 25
Green, Myra Hatt, Victoria ..... B.A. 28
Green, Pearl Alberta, Vancouver ..... B.A. 25
Green, R. Howard, Victoria ..... B.A. 25
Green, Thomas, Victoria ..... B.A. 39, M.A. 39, B.D. 43
Green, Thomas Bennett, New Westminster ..... B.A. 23, M.D., C.M. 25
Greggs, Gladys Evelyn, Vancouver ..... B.A. 25
Grenfell, Mary Elizabeth, Vancouver ..... B.A. 31
Gray, Edward J., Vancouver ..... B.A. 38, M.D. 15
Grey, Skains Leander Herbert, Vancouver ..... M.A. 31
Gunning (*née* McKay), Catherine W., Rossland ..... B.A. 10
Gurd, William Farquhar, Cranbrook ..... B.C.L. 39
Haley, Charles Joseph, Nanaimo ..... B.A. 37
Hall, Alfred, Vancouver ..... M.A. 39, LL.B. 39, D.C.L. 41
Hall, Ernest Amos, Vancouver ..... M.D., C.M. 39, L.R.C.P. 12
Hall, John Albert, Victoria ..... B.Sc. 22, M.Sc. 22
Hall, Norman McLeod, Vancouver ..... B.Sc. 25
Hall, Thomas Proctor, Vancouver ..... B.A. 39, M.A. 16, Ph.D. 8
Hall, Thomas R., Kamloops ..... B.A. 10
Hall, William Kendall, Eburne ..... M.D. 23
Hall, William Lashley, Vancouver ..... B.A. 39, B.D.
Hamilton, Charles Thomas, Vancouver ..... B.Sc. 39
Haney, Charles Nelson, Vancouver ..... B.A. 27, M.A. 27
Hanington, D. P., Wilmer ..... M.D. 25
Hanington, Ernest B. C., Victoria ..... M.D., C.M. 25
Hanington, Henry Carleton, Victoria ..... B.A. 28
Hannington, Robert Wetmore, Vancouver ..... B.A. 28
Hansford, William Francis, New Westminster ..... B.A. 39
Harper, Andrew Miller, Vancouver ..... B.A. 31
Harris, Clara Ethelwyn, Moresby Island ..... B.A. 25
Harris, Robert Wilson, Vancouver ..... B.A. 39

Harrison, John Stanley, Midway ..... B.A. 28
Hart, Edward Charles, Victoria ..... M.D., C.M. 25
Hart (*née* Messinger), Frances Payzant, Vancouver ..... B.A. 3
Hart (*née* McPhee), Margaret Janet, Victoria ..... M.A. 10
Hartwell, George E., Vancouver ..... B.A. 31
Harvey, Athelstan George, Vancouver ..... B.A. 23
Harvey, Robert Valentine, Victoria ..... M.A. 6
Harvie, Stafford K., Vancouver ..... B.A. 27, M.D., C.M. 25
Haviland, John Archibald, Vancouver ..... LL.B. 10
Hazelwood, Edwin Watson, Trail ..... Phm.B. 39
Hedley, John Whitfield, Nanaimo ..... B.A. 39, M.A. 39, B.D. 42
Henderson, A., Powell River ..... M.D. 25
Henderson, Alexander, Vancouver ..... B.A. 39
Henderson, James, Vancouver ..... M.A. 13
Henderson, Stuart Alexander, Victoria ..... B.A. 39, LL.B. 39, B.C.L. 41
Heneage, Thomas Robert, Victoria ..... B.A. 6
Henry, Alice Edna O., Victoria ..... M.A. 25
Henry, Edwin Arthur, Vancouver ..... B.A. 39, B.A. 35
Henry, Joseph Kaye, Vancouver ..... B.A. 10
Hepworth, William George, Steveston ..... M.D. 25
Herold, Wilson R. T., Vancouver ..... M.D., C.M. 31
Hetherington, Albert Edward, New Westminster ..... B.A. 23
Higgins, Charles P., Hosmer ..... M.D. 25
Higman, Ormond, Vancouver ..... B.Sc. 25
Hill, Arthur Edmund Breton, Vancouver ..... B.A.Sc. 25
Hill, Albert J., New Westminster ..... B.A. 3
Hill, Frederick Borden, Vancouver ..... B.A. 28
Hindle, George, Golden ..... B.A. 31
Hogle, John Herbert, Vancouver ..... M.D., C.M. 25
Holden, Donald B., Victoria ..... B.A. 25, M.D. 25
Holmes, William Cuthbert, Victoria ..... B.A. 34
Hope, Henry Pollock, Victoria ..... B.A. 6
Housser, George Elliott, Vancouver ..... B.A. 25
Howay, Frederic William, New Westminster ..... LL.B. 10
Howell, Lucy M., North Vancouver ..... B.A. 25
Hoyes, William Thomas, Vancouver ..... M.D. 23
Hoyle, Charles Collings, Ladner ..... M.A. 11
Hume, Wellington Wilson, Vancouver ..... M.B. 39
Hunter, Albert Lawrence Penrose, Vancouver ..... B.A. 23
Hunter, Archibald William, Vancouver ..... M.D., C.M. 25
Hunter, Gordon, Vancouver ..... B.A. 39
Hunting, Henry Dana, Summerland ..... B.A. 5, M.A. 5
Hutton, E. E., West Summerland ..... B.A. 30, M.A. 30
Huycke, A. H., Kelowna ..... M.D. 25

Idsardi, Harold William, Vancouver ..... B.Sc. 25
Irving, Palus Æmilius, Victoria .....
..... B.A. 41, M.A. 41, B.C.L. 41, D.C.L. 41
Jackson, George John, Vancouver ..... B.Sc. 31
Jackson, Maunsell Bowers, Vancouver ..... B.Sc. 25
Jackson, Marcus Harry, Vancouver ..... B.A. 39, M.A. 39
Jagger, Thomas Henry, Vancouver ..... B.V.S. 39
Jamieson, Annie Bruce, Vancouver ..... B.A. 23
Jamieson, John Stewart, Vancouver ..... B.A. 39
Jamieson (*née* Marshall), Laura E., Vancouver ..... B.A. 39
Jeffs, Thomas W., Vancouver ..... M.B. 39
Jenkins, Margaret, Victoria 1
Jervis, James George, Vancouver ..... B.V.S. 39
Jewett, F. Arnold, Vancouver ..... B.A. 28
Johnson, Arthur Livingstone, Vancouver ..... B.A. 27, M.D., C.M. 25
Johnson, Henry Mayott, Victoria ..... M.A. 30
Johnson, Sydney Munnings, Greenwood ..... B.A.Sc. 39
Johnston, David B., Vancouver ..... B.A. 31
Jones, James Harold, New Westminster ..... M.D. 25
Jones, John Milton, Vancouver ..... D.D.S. 39
Keeley, Daniel Edward, Hosmer 31
Keith, Fraser Sanderson, Vancouver ..... B.Sc. 25
Keith, Harry Wishart, Enderby ..... M.D., C.M. 25
Keith, William Dow, Vancouver ..... M.B. 41
Keller, James Henry, North Vancouver ..... B.A. 5, M.A. 5
Kelley, Wellington Clifton, West Summerland ..... B.A. 26
Kendall, George Rockland, Vancouver ..... B.Sc. 25
Kennedy, John Douglas, New Westminster ..... B.A. 31
Kennedy, J. H., Vancouver ..... C.E. 39
Kennedy, J. Keefer, Vancouver ..... B.C.L. 25
Kennedy, William Alan, Vancouver ..... B.Sc. 25
Kennedy, William Davis, Vancouver ..... M.D., C.M. 31
Kentish-Rankin, Lionel Kentish, Vancouver ..... B.A. 6
Ker, Robert H., Merritt, ... M.D. 25
Kidd, Charles E., Union Bay ..... B.A., B.D. 31
Kidd, William James, Mount Tolmie ..... B.A. 31, B.D. 31
Kilburn, George Hay, Rossland ..... B.Sc. 31
Killam, Cecil, Vancouver ..... M.A. 27
King, Alfred Albert, Ladner ..... M.D., C.M. 10
King, Alfred Nelson, Victoria ..... B.A. 25
King, Garfield A., Vancouver ..... B.A. 31
King, H. de W., Vancouver ..... B.A. 10, LL.B.
King, John Linkison, Vancouver ..... B.Sc. 31
Knowling, Albert James, Vancouver ..... B.A. 25

Knowlton, E. S., Vancouver 1
Knowlton, George Henry, Vancouver ..... B.A. 23
Knox, William John, Kelowna ..... M.D., C.M. 31
Ladner, Leon Johnson, Vancouver ..... B.A. 39, LL.B.
Landells, Robert, Golden ..... B.A. 10
Lane, Arthur Edward Cecil, Cowichan Bay ..... M.A. 30
Lane, James Eldon, New Westminster ..... B.A. 31
Lane, Robert Wallace, New Westminster ..... B.A. 31
Lang, Benjamin, Vancouver ..... M.D. 23
Land, Warren Hastings, Vancouver ..... M.D. 23
Langford, Frederick William, Vancouver ..... B.A. 39
Langley, Albert Godwin, Vancouver ..... B.Sc. 25
Large, Oliver Sydney, Vancouver ..... M.B. 39
Large, R. W., Port Simpson ..... M.B., C.M. 41
Larsen, Thorleif, Victoria ..... B.A. 30
Lathe (*née* Smith), Annie, Grand Forks ..... B.A. 25
Lathe, Frank Eugene, Grand Forks ..... B.A. 25, B.Sc.
Latimer, Frank Herbert, Penticton ..... C.E. 33
Lavelle, Walter H., Nakusp ..... M.D. 31
Laverock, Lily T., Vancouver ..... B.A. 25
Lawrence, Robert, Vancouver ..... M.D. 39
Lawson, John Paton, Vancouver ..... B.A. 23
Layton, Francis P. H., Vancouver ..... B.A. 10
Lazier, David B., South Fort George ..... M.D. 31
Lea, William James, Vancouver ..... D.D.S. 39, D.D.C.
Lees, F. W., Cranbrook ..... M.D. 25
Lehman, Edna, Victoria ..... B.A. 25
Leonard, Harry M., Victoria ..... B.C.L. 17
Levey, Thomas Henry, New Westminster ..... D.D.S. 39
Lindsay, Gordon, Vancouver ..... B.A. 25
Little, David C., Vancouver ..... B.A. 39
Livingston, Stuart, Vancouver ..... LL.B. 39
Lloyd, Herbert Mostyn, Vancouver ..... B.Sc. 25
Lockett, George Vernon, Vancouver..M.D., C.M. 12, M.R.C.S., L.R.C.P.
Logie, Frederick George, Vancouver ..... M.D. 25
Logan, H. T., Vancouver ..... B.A. 25, 30
Logan, Robert F., Kamloops ..... B.A. 10
Lord, Alexander R., Kelowna ..... B.A. 31
Lucas, Allan Stanley Bruce, Prince Rupert ..... B.Sc. 25
Lucas, Frederick George Tanner, Vancouver ..... B.A. 39
Lucas, Frederick Travers, Prince Rupert ..... B.Sc. 25
Lugrin, Charles H., Victoria ..... M.A. 28
Maitland, Robert Reid, Vancouver ..... LL.B. 39
Manchester, George Herbert, New Westminster ..... M.D. 25

Manning, Zenies Viril, Vancouver ..... B.A. 25
Manson, Alexander Malcolm, Prince Rupert ..... B.A. 39
Manson, William, Prince Rupert 1
Mappin, Frederick T., Vancouver ..... B.A. 30
Marett, Albert Ernest, Vancouver ..... Phm.B. 39
Martin, Alexis, Victoria ..... B.A. 41, M.A. 41
Martin, E. A., Kelowna ..... M.D. 25
Martin, John Alexander, Vancouver ..... B.A. 39
Mather, Frederick J., Vancouver ..... B.A. 23
Mathews, Stanley W., Vancouver ..... M.A. 31
Matthews, Allan F., Kamloops ..... M.A. 10
Maughan, Joseph Albert, Merritt ..... B.A. 23
Maycock, Elizabeth Jane, Vancouver ..... B.A. 10, M.A.
Mayers, Francis James, Vancouver ..... B.A. 23
Meadows, Stanley, Vancouver ..... B.A. 25
Melvin, Moses Gordon, New Westminster ..... B.A. 23
Meredith, William James Elmore, New Westminster ..... B.A. 39
Messinger, Mary Irene, Vancouver ..... B.A. 3
Middleton, Morrice Smith, Nelson ..... B.S.A. 39
Mildmay, Aubrey N. St. John, Vancouver ..... B.A. 30, M.A.
Millar, J. Ferguson, Penticton ..... B.A. 31
Miller, John Herbert, Agassiz ..... B.A. 31
Miller, John Wesley, Port Alberni ..... B.A. 39
Mills, Charles George, Vancouver ..... Phm.B. 39
Mills, John Albert, Vancouver ..... M.D., C.M. 39
Milne, George Lawson, Victoria ..... M.D., C.M. 43, M.D. 39
Moilliet, John Lewis, Vancouver ..... B.A. 30
Monro, Alexander Stewart, Vancouver ..... M.D., C.M. 23
Montgomery, Edgar Gordon, Vancouver ..... B.Sc. 25
Moody, Margaret Hutton, Vancouver ..... B.A. 10
Moore, Samuel, Vancouver ..... B.A. 23, M.A. 23
Morgan, Arthur D., Alberni ..... M.D. 25
Morgan, Edward Wesley, Vancouver ..... B.A. 39
Morley, Sidney Frederick, Victoria ..... B.A. 30
Morris, H. H., Vancouver ..... B.A. 5
Morris, Osborne, Vernon ..... M.D. 25
Morrison, Aulay, Vancouver, ... LL.B. 10
Morrison, Patrick George, Fernie ..... Phm.B. 39
Moule, Frances S., Salmon Arm ..... B.A. 25
Muir, Andrew Crichton, Sandwick ..... B.A. 25
Muir, John Nicolson, Sandwick ..... B.A. 25
Mullin, J. J., Extension ..... M.D. 25
Munn, D. Walter, Vancouver ..... M.A. 25, M.Sc. 25
Munn (*née* Bouchard), T. C., Vancouver ..... B.A. 25

Murphy, Dennis, Vancouver ..... B.A. 29
Murray, Charles Rutherford, Victoria ..... B.A. 10
Murray, Charles William, Mission City ..... B.Sc. 31
Murray, George, Nicola ..... M.A. 13
Murray, Paul, Peachland 1
Murray, William Ewart Gladstone, Vancouver ..... B.A. 25
MacDermott, John Henry, Vancouver ..... M.D. 25
MacDonald, Alexander, Victoria ..... D.D. 1
Macdonald, Blanche, Nanaimo ..... B.A. 10
Macdonald, M. A., Vancouver ..... LL.B. 39
Macfarlane, Arthur Douglas, Victoria ..... B.A. 39
Macfarlane, Andrew Kerr Hastings, Vancouver ..... B.A. 31
MacGill (*née* Gregory), Helen Emma, Vancouver ..... Mus.Bac. 41, B.A. 41, M.A. 41
MacGill, James Henry, Vancouver ..... B.A. 41, M.A.
Macgowan, A. H. B., Vancouver 1
MacInnes, Isobel, Vancouver ..... M.A. 31
MacInnes, John Alexander, Vancouver ..... B.A. 31
MacInnes, William Hedley, Vancouver ..... B.A. 31
Mackay, Donald McGregor, Vancouver ..... B.A. 10, M.D.
MacKay, John, Vancouver ..... B.A. 39, B.D.
MacKay, Neil F., Victoria ..... B.A. 10
MacKechnie, Lachlan N., Vancouver ..... M.B. 39
MacKenzie, Harry Havelock, New Westminster ..... B.A. 10
MacKenzie, Jessie Jean, Vancouver ..... M.A. 31
MacKenzie, Kenneth Alexander, Vancouver ..... B.A.Sc. 39
MacKenzie, Mary Lizbeth, Vancouver ..... B.A. 10
MacKinnon, G. E. L., Nelson ..... M.D. 25
MacKinnon, George Watson, Ladysmith ..... B.A. 31
MacLaughlin, Alexander Jackson, Vancouver ..... M.D., C.M. 31
MacLaurin, Donald Leslie, Victoria ..... B.A. 26
Maclean, Alice Anne, Vancouver ..... B.A. 37
Maclean, Charles George Grieg, Hazelton ..... M.D., C.M. 25
MacLean, John Duncan, Greenwood ..... M.D. 25
MacLeod, Alexander Robertson, Vancouver ..... B.A. 25
MacLeod, Frank Thomas, Victoria ..... B.A. 10
MacLeod, John Virgil, Sardis ..... B.A. 25
Macleod, Adele, Victoria ..... M.A. 3
Macleod, Jenny Isabel, Victoria ..... B.A. 3
MacMillan, Hugh, Vancouver ..... M.D. 25
Macnaghten, Ronald E., North Vancouver ..... M.A. 6
MacNaughten, George Kerr, Cumberland ..... B.A. 28, M.D., C.M. 25
Macnaughten, Jean L. M., Victoria ..... B.A. 25
Macneill, Albert H., Vancouver ..... LL.B. 10

MacPhail, David James, Vancouver ..... B.A. 26
MacPhail (*née* Ross), Mary Elsie, Vancouver ..... B.A. 39
MacPhail, Mary Campbell, Vancouver ..... B.A. 26
McAdam, Guy J., Vancouver ..... B.A. 28, M.A.
McArthur, Neil John, Vancouver ..... B.A. 39
McBride, Richard, Victoria ..... LL.B. 10
McCallum, John Aylmer, Grand Forks ..... B.A. 39
McColl, Evan Charles Walter, Port Moody ..... B.A. 31
McConkey (*née* Sibbald), Mary, Vancouver ..... B.A. 23
McConkey, William Andrew, Vancouver ..... M.D. 23
McClughan, Ellen, Vancouver ..... B.A. 25
McCoy, Emma Caroline, Vancouver ..... B.A. 25
McCoy, Joseph, Victoria ..... B.A. 39, M.A. 39
McCrossan, George Edward, Vancouver ..... B.A. 23, M.A.
McDiarmid, Christie, Langley ..... B.A. 23
McDiarmid, Colin Andrew, Vancouver ..... M.D., C.M. 25
McDiarmid, Stuart Stanley, Vancouver ..... B.Sc. 31
McDonald, William Forbes, Vancouver ..... M.D., C.M. 25
McDougall, Clarence Hobart, Moyie ..... B.Sc. 25
McDuffie, R. H., Vancouver ..... Phm.B. 39
McElhanney, William Gordon, Vancouver ..... B.A. 39
McEwan, Edwin Howard, New Westminster ..... M.D. 25
McEwan, Stanley Cameron, Hammond ..... M.D. 25
McGarrigle, Thomas Andrew, Victoria ..... B.A. 28
McIntosh, D. H., Summerland ..... B.A. 26
McIntosh, Hamish Heney, Vancouver ..... M.D. 25
McIntosh (*née* Burns), Helena Keith, Vancouver ..... B.A. 39
McIntosh, John William, Vancouver ..... B.A. 39, M.B.
McIntyre, Douglas Neil, Victoria ..... B.A. 31
McKay, J. G., New Westminster ..... M.D. 25
McKay, William Moore, Vancouver ..... B.A. 39
McKechnie, Robert Edward, Vancouver ..... M.D., C.M. 25
McKechnie, William Boyd, Vancouver ..... M.B. 39, M.D., C.M.
McKechnie, William Cecil, Vancouver ..... M.D. 25
McKee, Charles Sears, Vancouver ..... M.B. 39
McKeen, Mabel Helen, Vancouver ..... B.A. 25
McKeen, William G., Vancouver ..... B.A. 10
McKillop, Alexander, Vancouver ..... B.A. 31
McKenzie, James T., Vancouver ..... M.D. 25
McKim, Harold Claude Nelson, Vancouver ..... B.A. 23
McLaren, Duncan Bright, Victoria ..... B.A. 6
McLaren, E. D., Vancouver ..... B.A. 1, D.D.
McLatchy, Herman Jackson, Vancouver ..... B.A. 28
McLellan, Leander Blair, Vancouver ..... B.A. 10

McLellan, R. Burns, Vancouver ..... B.Sc. 25
McLennan, A. L., Vancouver ..... B.A. 31, M.D. 25
McLennan, Peter Andrew, Vancouver ..... M.D., C.M. 25
McLeod, Finnimore Melbourn, Vancouver ..... B.A. 28
McLeod, Hazel Elizabeth, Vancouver ..... B.A. 25
McMicking, Antony Edgar, Victoria ..... M.D., C.M. 25
McMillan, Edgar Roy, New Westminster ..... B.A. 39, M.A.
McNaughten, M. H., Vancouver 1
McNeill, Elsie, Vancouver ..... B.A. 3
McNiven, Catherine, Vancouver ..... B.A. 10
McNiven, John J., Vancouver ..... B.Sc. 25
McPhee, T. J., Comox ..... M.D. 25
McPhillips, A. E., K.C., Victoria 1
McPhillips, Francis Xavier, Vancouver ..... M.D. 23
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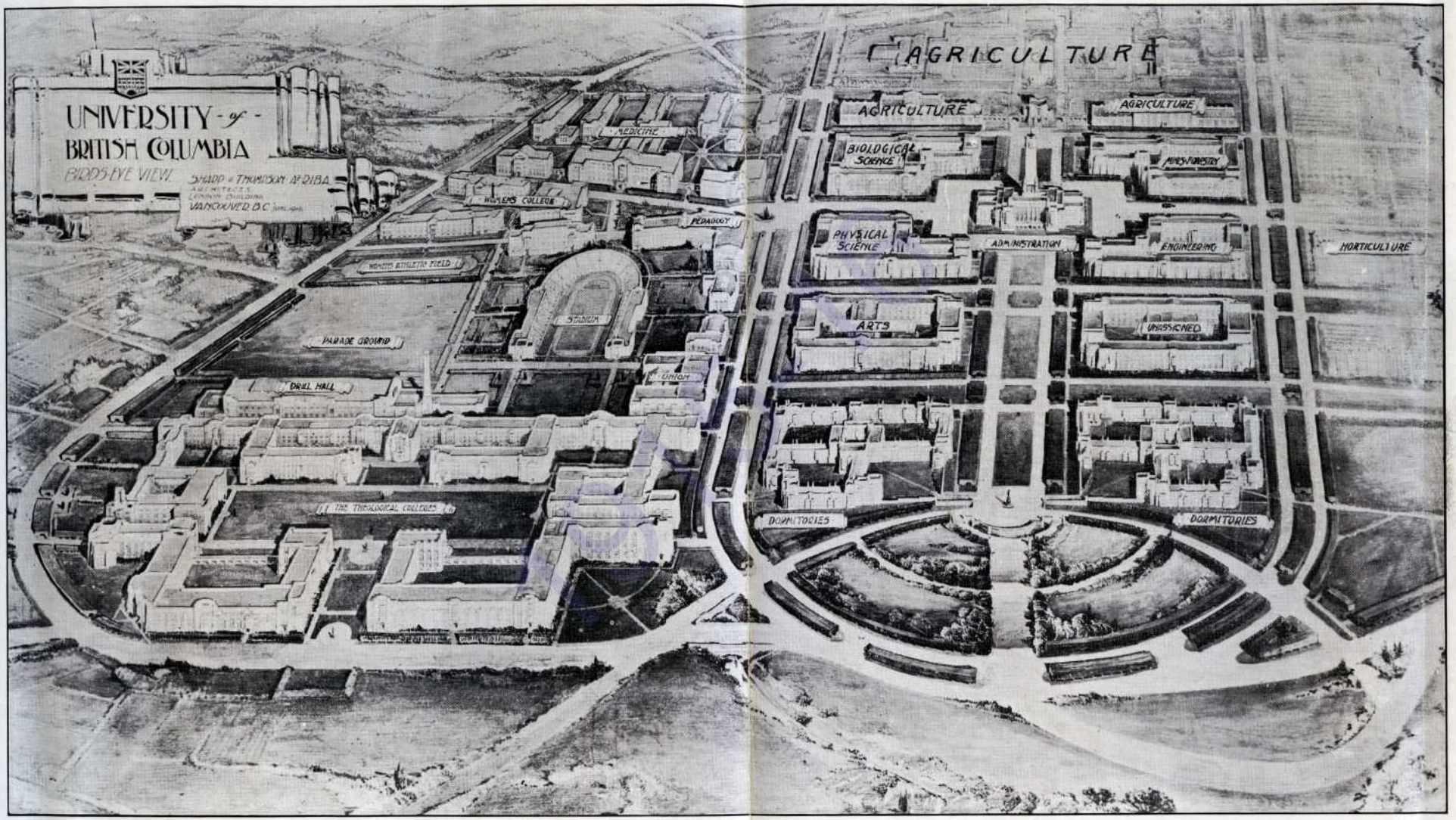

PERSPECTIVE PLAN OF THE UNIVERSITY OF BRITISH COLUMBIA.