The University of British Columbia

ANNOUNCEMENT

OF

THE SUMMER SESSION

NINTH SESSION

JULY 3RD TO AUGUST 23RD, 1928

VANCOUVER, BRITISH COLUMBIA

THE UNIVERSITY BOOK STORE

The Book Store, which occupies a room in the Auditorium Building, was established for the convenience of the students, and has effected a considerable saving to the students in time and money. It is prepared to supply all the text books required for the various courses offered in the University, also such articles as note books, loose-leaf sheets, fountain pens, drawing paper and instruments.

The store is open Monday to Friday, from nine to five o'clock, and Saturday, from nine to one.

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SUMMER SESSION—1928

TIME-TABLE OF LECTURES

MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY

8 a.m.—	Physics 1 (a) and 2 (a); Philosophy 1 (b);	Education 1;	French 2 (a);	Mathematics 1 (a); Philosophy 9 (a);
9 a.m.—	Chemistry 1 (a); English 2 (a) 1;	Mathematics 1 (b); German 1;	Philosophy 1 (a)	English 1 (a); Physics 1 (b) and 2 (b); Philosophy 4 (a); Philosophy 9 (b);
10 a.m.—	Economics 1 (b); English 9;	Education 2;	English 1 (b); History 1;	English 2 (a) 2; History 3; Chemistry 1 (b);
11 a.m.—	History 2;	Education 3; Latin 1 (a);	English 16; Economics 3;	English 2 (b);
12 noon—	History 4;	Latin 2 (a);	German 1;	
1 p.m.—	French 1 (a); French 2 (b);	Geography 1 (a);	Philosophy 10 (a);	
2 p.m.—	French 1 (b);	Geography 1 (b);	Philosophy 10 (b);	
3 p.m.—	French 3;			

BIOLOGY AND BOTANY

2 p.m.—Biology 1 (a) Lect. (Monday, Wednesday and Thursday); Biology 1 (b); Lect. (Tuesday and Friday).

3 p.m.—Biology 1 (a) Lab. (Monday and Thursday); Biology 1 (b) Lab. (Tuesday and Friday); Biology 1 (b) Lect. (Wednesday).

4 p.m.—Biology 1 (a) Lab. (Monday and Thursday); Biology 1 (b) Lab. (Tuesday and Friday).

COMMERCIAL WORK

9-10—Stenography I; Accounting II.
10-11—Stenography II; Accounting I.
11-12—Laboratory Work for all.

Note.—The laboratory hours in Chemistry and Physics will be arranged, so far as possible, to suit the needs of students.

The courses in Commercial Work are given in the High School of Commerce, Tenth Avenue and Oak Street, Vancouver.

A schedule of the rooms in which the above lectures are given will be posted on the bulletin board, and copies will be distributed to students at the beginning of the Summer Session.

SUMMER SESSION

OFFICERS AND STAFF

GEORGE M. WEIR, B.A., M.A., D.Paed., Director of Summer Session.

L. S. KLINCK, M.S.A., D.Sc., LL.D., President of the University.

JAMES HENDERSON, M.A., Assistant Director of Summer Session.

STANLEY W. MATHEWS, M.A. (Queen's), Registrar.

MISS E. B. ABERNETHY, B.A. (Brit. Col.), Assistant Registrar.

F. DALLAS, Bursar.

JOHN RIDINGTON, Librarian.

BIOLOGY

FRANK DICKSON, B.A. (Queen's), Associate Professor of Botany.
MISS JEAN DAVIDSON, M.A. (Brit. Col.), Assistant.

CHEMISTRY

M. J. MARSHALL, M.Sc. (McGill), Ph.D. (Mass. Inst. of Technology), Associate Professor of Chemistry.

JOHN ALLARDYCE, M.A. (Brit. Col.), Instructor in Chemistry.

COMMERCIAL WORK

W. K. BEECH, B.A. (Queen's), M.A. (McMaster and Brit. Col.), B.Paed. (Toronto), Principal of the High School of Commerce, Vancouver.

W. H. FENTON, L.C.P. (College of Preceptors, London, Eng.), Head of Commercial Department, King George V High School.

MISS ISABEL M. LEWIS, Assistant.

ECONOMICS

W. A. CARROTHERS, B.A. (Man.), Ph.D. (Edin.), D.F.C., Professor of Economics in the University of Saskatchewan.

EDUCATION

M. E. LAZERTE, B.A. (Toronto), M.A., B.Educ. (Alberta), Ph.D. (Chicago), Assistant Professor of Psychology and Education in the University of Alberta.

GEORGE M. WEIR, B.A. (McGill), M.A. (Sask.), D.Paed. (Queen's), Professor of Education and Head of the Department.

ENGLISH

M. W. WALLACE, B.A., Ph.D., Professor of English in Toronto University.

W. L. MACDONALD, B.A. (Toronto), M.A. (Wisconsin), Ph.D. (Harvard), Professor of English.

HUNTER C. LEWIS, M.A. (Brit. Col.), Instructor in English.

MISS DOROTHY BLAKEY, M.A. (Brit. Col. and Toronto), Assistant.

EARLE BIRNEY, B.A. (Brit. Col), M.A. (Toronto), Assistant.

FRENCH

HENRI CHODAT, M.A. (McGill and Harvard), Officier d'Academie (France), Associate Professor of French.

MISS JANET T. GREIG, B.A. (Queen's), M.A. (Brit. Col.), Assistant Professor of French.

E. E. DELAVAULT, L.en D. (Paris), Assistant in French.

GERMAN

MISS ISABEL MACINNES, M.A. (Queen's), Ph.D. (Calif.), Associate Professor of Modern Languages.

GEOGRAPHY

J. B. APPLETON, B.A. (London), Ph.D. (Chicago), Assistant Professor of Geology in the University of Illinois.

HISTORY

W. N. SAGE, B.A. (Toronto and Oxon), M.A. (Oxon), Ph.D. (Toronto), Professor of History.

F. H. SOWARD, B.A. (Toronto), B.Litt. (Oxon), Assistant Professor of History.

LATIN

H. T. LOGAN, B.A. (McGill and Oxon), M.A. (Oxon), Associate Professor of Classics.

MATHEMATICS

F. S. NOWLAN, B.A. (Acadia), A.M. (Harvard), Ph.D. (Chicago), Professor of Mathematics.

L. RICHARDSON, B.Sc. (London), Associate Professor of Mathematics.

PHILOSOPHY

J. W. BRIDGES, B.A. (McGill), A.M., Ph.D. (Harvard), Associate Professor of Abnormal Psychology in McGill University.

M. E. LAZERTE, B.A. (Toronto), M.A., B.Educ. (Alberta), Ph.D. (Chicago), Assistant Professor of Psychology and Education in the University of Alberta

JAMES HENDERSON, M.A. (Glasgow), Associate Professor of Philosophy.

MRS. J. B. WYMAN, B.A., M.Sc. (New Zealand), A.M., Ph.D. (Stanford), Associate Professor of Psychology and Education.

PHYSICS

G. M. SHRUM, M.A., Ph.D. (Toronto), Associate Professor of Physics.

LESLIE HOWLETT, B.A. (Brit. Col.), Assistant.

THE SUMMER SESSION, 1928

GENERAL INFORMATION

The ninth Summer Session of the University of British Columbia will extend from July 4th to August 21st, 1928, a period of seven weeks exclusive of examinations. Supplemental examinations will be held on July 3rd, and the final examinations on August 22nd and 23rd.

The University is now settled in its new quarters at Point Grey, about six miles from the centre of Vancouver, and provides in the new buildings ample accommodation for the classroom and laboratory work of the Summer Session.

There is a convenient transportation service from Vancouver. Buses operated by the B. C. Electric Railway run from the street car line at the corner of Tenth Avenue and Sasamat Street, direct to the University. The bus fare is five cents, but students will, on application, receive from the Registrar a certificate entitling them to travel at a special three-cent rate.

There is extensive boarding-house accommodation in West Point Grey within a ten minutes' ride by bus from the University. Good board and lodging can be obtained at a cost of $40.00 a month and upwards; or, separately, board at $35.00 and upwards per month, and room at from $5.00 to $10.00.

To meet the conditions under which the Summer Session is being held, the University cafeteria will serve luncheon and supper; it will also supply light refreshments throughout the day at reasonable rates. The cafeteria is situated in the Auditorium Building and possesses most modern equipment for the service and convenience of patrons. The management of the cafeteria is prepared to cater to picnic and luncheon parties arranged by the students.

REGISTRATION AND ATTENDANCE:

1. *All students of the Summer Session of* 1928 *are required to register* on or before July 3rd. An additional fee of two dollars* ($2.00), *will be charged for registration after this date. No person will be admitted to a class except upon presentation of a certificate of registration.*

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*Note.—The following regulations will apply to the Summer Session of 1929 and subsequent sessions:

(i) Students who undertake preparatory work entitling them to the maximum credit of six units in one session are required to register on or before October 1st, or, subject to the penalty applying to late registration, between October 1st and January 1st.

(ii) All other students are required to register on or before the opening day of the Session, but, with the exception of students seeking to remove supplementals or repeating courses in which they have failed in the Winter Session, may not register for more than four and a half units of credit.

2. All students desiring to obtain formal credit for work done in the Summer Session must, upon entrance, present evidence of Junior Matriculation standing or its equivalent.

3. Summer Session students shall be registered as follows:

Students whose Full Junior Matriculation standing has not been approved shall register as *Partial* students.

Students proceeding to a degree in due course whose Full Junior Matriculation standing has been approved shall register as *First Year* students until they have completed the 15 units of work prescribed by the Calendar.

Students proceeding to a degree in due course with Full First Year standing shall register as *Second Year students* until they have completed the Second Year in conformity with Calendar regulations.

Those students only may register as *Third or Fourth Year* students who have completed the work of the previous years in accordance with Calendar regulations.

4. Students must attend regularly the classes in a course for which they register. Those whose unexcused absences from such a course exceed one-eighth of its total number of meetings will not be credited with attendance in that course.

FEES:

All cheques must be certified and made payable to "The University of British Columbia."

Fees are payable on registration, otherwise an additional fee of $2.00 will be exacted.

Minimum fee	$20.00
For three units (at the rate of $13 for 1½ units)	26.00
For six units	52.00
For Commercial Course	20.00
Summer Session Association	1.00

Special fees are:—

Regular supplemental examination, per paper	$ 5.00
Special examination, per paper	7.50
Graduation	20.00

Supplemental examination fees must be paid two weeks before the examination, special examination fees when application for examination is made, and graduation fees two weeks before Congregation.

Note in reference to fees for subsequent sessions:

For students registering in October for preparatory work one-half of the fees is payable on registration, and the balance at the beginning of the Summer Session in the following July.

For Saturday Morning, Late Afternoon and Evening Classes one-half of the fees is payable on registration, and the balance in January of the following year.

COURSES LEADING TO THE DEGREE OF B.A.:

1. The degree of B.A. will be granted on completion of courses amounting to 60 units chosen in conformity with Calendar regulations. These regulations, to which all students proceeding to a degree must give careful attention, are fully set forth on pages 67 to 72 of the calendar for 1928-29.

2. Candidates for the degree are advised to attend at least one Winter Session, preferably that of the Fourth Year.

3. A student seeking the degree of B.A. without attending a Winter Session in his Fourth Year will be required to write, in addition to the examinations in each course, one paper in each of the two departments in which his major work has been done. These papers will be on the whole of the undergraduate's Third and Fourth Year work in those departments. (See regulation regarding Major subjects on p. 71 of the Calendar.)

4. The maximum credit* for Summer Session work in any one Calendar year is six units.

In no case will a candidate be granted credit for more than six units of work in any Summer Session, nor will he be credited with attendance at courses in excess of six units.

5. Third and Fourth Year undergraduates in Arts may now take 6 units of work in Education for credit towards the B.A. degree.

6. First and Second Year courses may be taken in the Third or Fourth Year, but only with the consent of the Department concerned and of the Department in which the candidate is doing his major work, and no such course (with the exception of Third and Fourth Year subjects which are open to Second Year students)

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*Note.—The following regulations will apply to the (Summer) Session of 1928-29 and subsequent session:

(i) For students desiring this maximum credit, preparatory work in the form either of prescribed reading or of a correspondence course (as may be determined by the Department offering the course), will be provided from October 1st to June 30th prior to the Summer Session, and this preparatory work will be tested by an examination to be written in the first week of the Summer Session. Students are expected to correspond with the instructors in charge regarding difficulties arising in connection with such work. This preparatory work is quite distinct from the Reading Course for Fourth Year undergraduates referred to in paragraph 7.

(ii) If a student does not write this examination or if he fails in it, he may not register for more than 4½ units of work.

(iii) Students, however, seeking to remove supplementals or repeating a course in which they failed in the Winter Session, may register for 6 units of work for credit without undertaking the preliminary work.

(iv) Winter Session students, taking Summer Session courses not already attempted in the Winter Session may not register for more than 4½ units of credit.

will be counted for more than 2 units in the Third or Fourth Year. But the department in which such a course is taken may supplement it by a reading course or special course counting one unit.

7. Reading courses will be open to Summer Session students in the same way as to Winter Session students (i.e. one course not exceeding 3 units in the Fourth Year, subject to the approval of the department concerned). A Summer Session student will be deemed to be in his Fourth Year when he has completed his First and Second Years and fifteen units of credit in Third and Fourth Year subjects.

8. Reading courses will be open only to students who are proceeding to a B.A. degree by Winter Session or Summer Session at this University (except, as at present, to M.A. candidates).

9. Afternoon and evening classes may be arranged, and, if so, may be taken for credit by students proceeding to the B.A. degree, who are at least 18 years of age and who have completed Senior Matriculation or First Year Arts.

10. The maximum credit for work other than that of the regular Summer and Winter Sessions may not exceed 15 units subsequent to Senior Matriculation or First Year Arts, nor 3 units in any one academic year.

11. Extra-mural work done at other universities prior to registration at this University may be accepted if approved by Faculty, but may not exceed the total number of units of credit obtainable at this University without attendance at either Winter or Summer Session.

12. If credit is granted for extra-mural work taken elsewhere, the total amount of work which the student concerned may take at this University without attendance at a Winter or Summer Session will be correspondingly reduced.

13. No credit will be granted for extra-mural work done at other universities in the same academic year in which any work has been attempted at this University, whether in the Summer Session or in the Winter Session or by Reading courses or Afternoon and Evening classes.

EXAMINATIONS AND ADVANCEMENT:

1. At the close of the Summer Session examinations are held in all of the courses for which credit is given. Examinations in other courses may be given at the discretion of the instructor.

2. The passing mark on each paper is 50 per cent. Credit, however, will not be granted for any part of a course until the whole course has been completed. Part courses in different subjects may not be combined.

3. Students attending Afternoon and Evening classes will be tested by the ordinary Winter Session examinations.

4. In any course which involves both laboratory work and written examinations, students may be debarred from examination if they fail to present satisfactory results in laboratory work, and they will be required to pass in both parts of the course.

5. Supplemental examinations may be granted by Faculty to Summer Session students in the subject or subjects in which they have failed, but a student obtaining less than 30 per cent. in a subject will not be granted a supplemental in that subject except by special permission of Faculty.

6. If a student fails in two supplementals or special examinations in respect of the same Summer Session course, no further supplemental or special examination will be granted to that student in respect of that course.

7. Special examinations may be granted by special permission of Faculty, but may not be taken before October 1st of the year in which the Summer Session was attended.

8. Supplemental and Special examinations will be granted to students attending Afternoon or Evening classes on the conditions governing Summer Session examinations.

COURSES OF STUDY

BIOLOGY.

1. *General Biology.*

Text-book: Smallwood, *A Text-book of Biology,* Lea and Febiger.

1 (a). Three lectures and two laboratory periods a week.

1 (b). Three lectures and two laboratory periods a week.

Note: The summer courses in Parts (a) and (b) may be taken concurrently, and together constitute the equivalent of Biology 1.

Preparatory Reading recommended: *Synopsis of Smallwood, A Text-book of Biology.*

CHEMISTRY.

1 (a). Five lectures and two laboratory periods of three hours a week.

Text-book: Smith's *College Chemistry,* as revised by Kendall, 1923 ed., Century Co., first twenty-three chapters.

1 (b). Five lectures and two laboratory periods of three hours a week.

Text-book: Smith's *College Chemistry,* as revised by Kendall, 1923 ed., Century Co., last twenty-two chapters.

The completion of Parts (a) and (b) will entitle the student to credit in Chemistry 1.

Preparatory Reading recommended: Smith's *College Chemistry,* the first twenty-three chapters.

COMMERCIAL WORK—ADVANCED. (Not for University credit).

This course is designed to cover two Summer Sessions. Teachers holding Academic or First Class Certificates who complete the course may be granted Assistant High School Teachers' Certificates for Commercial Subjects. The final examination for the granting of certificates will be held by the Department of Education at the end of the Summer Session.

The purposes of the course are twofold, namely:

(1) To give certificated teachers a working knowledge of the content of the Commercial Courses in the High Schools of the Province, and

(2) To train teachers in the latest and most approved methods of teaching the work.

The above work will be given in the Session of 1928, in two parts: Part I for beginners, and Part II for those who have completed Part I and others with advanced standing in the subject sufficient to warrant exemption from Part I.

A complete statement of the courses in various subjects and the requirements for certification of teachers of Commercial Subjects may be found on pages 71 and 72 of the Courses of Study for 1927-28 issued by the Department of Education.

ECONOMICS:

1 (b). *Principles of Economics (second half of the course).* An introductory study of general economic theory including a survey of the principles of the production of wealth; value and prices; money and banking, including a survey of the Canadian Banking System; business fluctuations; foreign trade and exchange; free trade and protection; interest, rent, wages, and profits.

Text: Fairchild, Furniss, Buck, *Elementary Economics,* Macmillan, Vol. II.

References: *Principles of Economics,* Marshall. *Principles of Economics,* Taussig. *Principles of Political Economy,* Nicholson.

Preparatory reading recommended: *Economics for the General Reader,* Clay. *Economics for Canadian Readers,* McGibbon.

5 hours a week.

The completion of Parts (a) and (b) will entitle the student to credit in Economics 1. Part 1 (a) not given this session.

3. *Economics of Labour and Social Reform.* This course will deal with the following topics: the origin and nature of the modern labour problem; the problem of wages, unemployment, conditions of labour including a study of hours of labour; labour of women and children; labour and health, standards of living; trade unionism, including a study of its principles, and a survey of the movement in Great Britain and the United States; collective bargaining, including a study of shop committees, etc.; strikes, restriction of output, the boycott, employers' organizations, social insurance, labour politics and labour legislation, socialistic remedies.

Text: Catlin, *The Labour Problem,* Harpers. Douglas, Hitchcock and Atkins, *The Worker in Modern Economic Society.*

Preparatory reading recommended: *Modern Industrial Relations,* J. Calder. *Labour in the Changing World,* MacIver.

5 hours a week. 1½ units.

EDUCATION.

1. *Introduction to the Study of Education.*

The course aims to analyze the general problems of administration, supervision and teaching practice, to classify and evaluate representative pool studies, and to show present opportunities for scientific research. The problems of the parent, the pupil, the teacher, the supervisor, and the administrator will be considered. Problems for detailed study will be assigned to individual students.

Text: *Introduction to the Scientific Study of Education,* Judd.

Supplementary Reading: (a). Cubberley, *Introduction to the Study of Education,* Houghton Mifflin. (b). Strayer and Engelhardt, *The Classroom Teacher.*

1½ units.

2. *Elementary Educational Psychology.*

A survey of the field of psychology as applied to education. The following topics among others, will be considered:

Individual differences in relation to heredity and environment, the learning process, the technique of study, formal discipline and transfer of training, work and fatigue, applications to the elementary and high school subjects.

Texts: Cameron, *Educational Psychology,* The Century Co. Reed, *Psychology of Elementary School Subjects,* Ginn & Co.

References: Gates, *Psychology for Students of Education,* Macmillan. Freeman, *The Psychology of the Common Branches,* Crawford, *The Technique of Study,* Houghton Mifflin. Judd, *Psychology of Secondary Education,* Ginn & Co. Skinner, Gast, Skinner, *Readings in Educational Psychology,* Appleton.

Preparatory reading recommended: Texts (as mentioned above), by the following authors: Cameron or Gates; Reed or Freeman; Skinner, Gast, Skinner.

5 hours a week. 1½ units.

3. *History and Principles of Education.*

The meaning and philosophic basis of education will be approached through a study of the great educational reformers and movements from the classical period to the present, with special reference to educational development since 1800.

The above survey will be followed by a study of modern educational tendencies in British Columbia, Ontario, England, the United States, France and Germany with more particular reference to the post-war period.

Texts: Cubberley, *A Brief History of Education,* Houghton

Mifflin Co. Chapman and Counts, *Principles of Education,* Houghton Mifflin Co.

References: Cubberley, *Readings in the History of Education,* Houghton Mifflin Co. Graves, *Great Educators of Three Centuries,* Macmillan. Woodburne, *Human Nature and Education,* Oxford University Press. Williams & Rice, *Principles of Secondary Education,* Ginn & Co. Peters, *Foundations of Educational Sociology,* Macmillan. Judd, *The Psychology of Social Institutions,* Macmillan. Sandiford (Editor), *Comparative Education,* Dent & Sons.

Preparatory readings recommended: Cubberley, *A Brief History of Education.* Chapman and Counts, *Principles of Education.* Graves, *Great Educators of Three Centuries.*

5 hours a week. 1½ units.

ENGLISH.

1 (a). *Literature.* Elementary study of a number of literary forms to be chosen from the short story, the play, the novel, the essay, the simpler sorts of poetry.

Text-books: Sherman, *A Book of Short Stories,* Holt. Euripides, *Bacchae,* in Gilbert Murray's paraphrase. Shakespeare, *Julius Caesar.* Sheridan, *The School for Scandal,* Everyman. Ibsen, *A Doll's House,* Everyman. *An Anthology of Modern Verse,* Methuen.

5 hours a week.

1 (b). *Composition.* Elementary forms and principles of composition; expository themes; study of models.

5 hours a week.

The completion of Parts (a) and (b) will entitle the student to credit in English 1.

2 (a). *Literature.* Studies in the history of English Literature.

First Part: Lectures and texts illustrative of the chief authors and movements from Tottel's Miscellany to 1700.

5 hours a week.

Second Part: Lectures and texts illustrative of the chief authors and movements from 1700 to the death of Shelley.

5 hours a week.

Text-books: *Century Readings in English,* ed. Cunliffe, Century Publishing Co. Neilson and Thorndike, *A History of English Literature.*

Note.—A detailed list of the reading for English 2 (a) cannot be given here, but students who propose taking the course are advised to familiarize themselves with the longer works: Shakespeare, *Henry IV,* Part 1; *Macbeth;* Milton, *Paradise Lost,* Bk. 1; Pope, *Rape of the Lock;* Goldsmith, *Deserted Village;* Scott, *Old Mortality;* Jane Austen, *Pride and Prejudice.*

2 (b). Narrative and descriptive themes; the writing of reports.

3 hours a week.

Text-book: Albright, *Descriptive Writing,* Macmillan, New York, $1.25.

The completion of (a), both parts, and (b) will entitle the student to credit in English 2.

9. *Shakespeare.* A detailed study of the text of *Henry IV,* Part I, *Hamlet; The Tempest.*

5 hours a week. Professor Wallace. 1½ units.

16. *Romantic Poetry.* Studies in the beginnings of the English Romantic movement and in the work of Wordsworth and Coleridge.

5 hours a week. Professor Wallace. 1½ units.

FRENCH.

1 (a). Review of the essentials of French grammar and syntax applied to the correct writing of French.

Text-books: Clement and Macirone, *Voici la France,* Heath. Composition from Kastner and Marks, *French Composition,* Part 1.

5 hours a week.

1 (b). Review of the essentials of French grammar and syntax applied to the correct writing of French.

Text-books: Moliere, *Les Precieuses Ridicules,* Longmans. Composition from Kastner and Marks, *French Composition,* Part 1.

5 hours a week.

The completion of Parts (a) and (b) will entitle the student to credit in French 1.

Preparatory reading recommended: *Review of Berthon,* Grammaire Francaise. *A Preface to Moliere,* Ashton.

2 (a). Exercises in French on the text read, written resumes and original composition in French.

Text-books: France, *Le Livre de mon Ami,* Oxford. Composition from Kastner and Marks, *French Composition,* Part 1.

5 hours a week.

2 (b). Exercises in French based on the text read, written resumes, and original composition in French.

Text-books: *La Fontaine, One Hundred Fables,* Ginn. Moliere, *Les Femmes Savantes,* Didier. Kastner and Marks, *French Composition,* Part 1.

5 hours a week.

The completion of Parts (a) and (b) will entitle the student to credit in French 2.

Preparatory reading: *Review of Berthon,* Grammaire Francaise. *Preface to Moliere,* Ashton.

N.B.—Course S 3 can be taken in conjunction with the foregoing courses.

S 3. Exercises in spoken French, based on the work of the First and Second Years, arranged for teachers and for students who intend to enter the University.

5 hours a week.

GERMAN.

1. Composition, grammar, conversation, reading and translation of texts.

Zinnecker, Ex. 30-41; Von Wildenbruch, *Das edle Blut,* Scribner; Moser, *Der Bibliothekar,* Ginn. Bruns, *Book of German Lyrics,* Heath.

10 hours a week. 3 units.

Preparatory work: Review of first 30 exercises in Zinnecker, on which a test will be given early in the term.

Students are also recommended to read, if possible, the first text on the list.

GEOGRAPHY.

1 (a) and (b). A general course in the principles of physical geography, intended to furnish teachers and others with (1) a general background of interest in the subject and a knowledge of the relative value and use of the geographical data, as taught in public and high school courses (a knowledge of which is pre-supposed); (2) An outline of the processes by which present geographic conditions have been produced, and of their effect on the human population of the planet. The topics discussed are: General earth relations, the atmosphere, climatic factors, typical climates, the oceans, earth materials and their bearing on life, changes in land surfaces produced by internal and external forces, plains, plateaus, mountains and valleys in their relations to human developments, coasts and harbors, inland water ways and traffic routes.

Text-book: Salisbury, Barrows and Tower, *Elements of Geography,* Henry Holt & Co.

10 hours a week. 3 units.

Reference books: Ward's *Climates of the United States,* Ginn & Co. Huntingdon and Cushing, *Principles of Human Geography,* John Wiley & Sons. Goode, *School Atlas,* Rand McNally. Newbigin, *Modern Geography,* Home University Library, Ryerson Press.

HISTORY.

1. *Canada Under French Rule.*

This course opens with a survey of the European world at the time of overseas expansion and an analysis of the colonial policies of the Great Powers. In the days of New France, it studies colonization and exploration, the development of Church and State and the Half Century of Conflict.

Texts: Munro, *The Crusaders of New France,* and Wrong, *The Conquest of New France.*

Preparatory reading: Students are expected to have read before Summer School *at least two* of the following books:

Abbott, *Expansion of Europe.* Bolton and Marshall, *The Colonization of North America.* Bourne, *Spain in America.* Parkman, *Pioneers of France in the New World.* Andrews, *The Colonial Period.*

5 hours a week. Mr. Soward.

2. *The History of Western Canada.*

This course will trace the development of Canada west of the Great Lakes from the early fur traders to the present day. More than half of the course will be devoted to the history of British Columbia.

No text-books are available for this course, but the following books are especially recommended for reading and reference:

Shortt and Doughty, editors, *Canada and its Provinces.* Howay and Scholefield, *British Columbia,* Vols. I and II. Begg, Alexander, *History of the Northwest.* Begg, Alexander, C.C., *History of British Columbia.* Tyrrell, J. B., editor, *David Thompson's Narrative,* Champlain Society. Burpee, L. J., *The Search for the Western Sea.* Masson, L. F. R., *Les Bourgeois de la Compagnie du Nord-Ouest.* Davidson, G. C., *The North West Company.* Bryce, G., *The Remarkable History of the Hudson's Bay Company.* Martin, C., *Lord Selkirk's Work in Canada.* Coats and Gosnell, *Sir James Douglas.*

Preliminary Reading: The following books should be read by students in this course before the commencement of lectures:

McArthur, D. A., *History of Canada.* Wrong, G. M., *The Conquest of New France.* Skelton, O. D., *The Canadian Dominion.* Denton, V. L., *The Far West Coast.* (Those portions of these books which deal with Western Canada.) Howay, F. W., *An Outline of the History of British Columbia.* (In the press).

5 hours a week. Mr. Sage.

3. *Medieval History,* 325-814.

An outline study of the history of the Middle Ages from the Council of Nicaea to the death of Charlemagne.

Text-book: Thorndike, *A History of Medieval Europe.*

The following books are especially recommended for reading and reference:

Cambridge Medieval History. Munro, *The Middle Ages.* Oman, *The Dark Ages.* Bryce, *The Holy Roman Empire.* Gibbon, *The Decline and Fall of the Roman Empire.* Orton, *Outlines of Medieval History.* Hodgkin, T., *Italy and Her Invaders.*

Preparatory reading: The following books, or portions of them, should be read by students in this course before the commencement of lectures:

Jones, H. S., *The Roman Empire* (Story of the Nations Series), or Boak, A. E. R., *History of Rome to 565 A.D.,* or Pelham, H. S., *Outline of Roman History.* Gibbon, *Decline and Fall of the Roman Empire,* cc. XV, XVI. Wells, H. G., *Outline of History,* cc. 27-32 (inclusive). *Encyclopaedia Britannica,* articles on Church History; Papacy; Roman Empire, The Later. (The articles in the *Catholic Encyclopaedia* on these subjects may be substituted if desired.)

5 hours a week. Mr. Sage.

4. *Twentieth Century Europe.*

In this course an outline is given of the chief political, economic and social developments in the chief European States during the first quarter of the Twentieth Century.

Text: Slosson, *Twentieth Century Europe.*

Preparatory Reading: Students are expected to have read before Summer School *at least two* of the following books:

Moon, *Imperialism and World Politics.* Dickinson, *The International Anarchy* 1904-1914. Bowman, *The New World.* Toynbee, *The World After the Peace Conference.* Keynes, *The Economic Consequences of the Peace.* Beard, *Cross Currents in Europe Today.*

5 hours a week. Mr. Soward.

The completion of any two of the foregoing courses will entitle the students to 3 units of credit in History in any year.

LATIN.

1 (a). Cicero, *Pro Lege Manilia,* Select Orations and Letters, Allen and Greenough, Ginn. Selected exercises in Bradley, *Arnold's Latin Prose Composition,* Longmans, Green. Roman History to 265 B.C.

5 hours a week.

Given in 1928.

1 (b). Virgil, *Georgics IV,* Page, Macmillan. Selected exercises in Bradley, *Arnold's Latin Prose Composition,* Longmans, Green. Roman History, 265 B.C. to 133 B.C.

5 hours a week.

Given in 1929.

The completion of Parts (a) and (b) will entitle the student to credit in Latin 1.

2 (a). Cicero, *Pro Archia,* Select Orations and Letters, Allen and Greenough, Ginn. Horace, *Selected Odes,* Wickham, Clarendon Press. Selected exercises in Bradley, *Arnold's Latin Prose Composition,* Longmans, Green. Roman History, 133 B.C. to 27 B.C.

5 hours a week.

Given in 1928.

2 (b). Virgil, *Aeneid,* Book VI, Page, Macmillan. Selected exercises in Bradley, *Arnold's Latin Prose Composition,* Longmans, Green. Roman History 27 B.C. to 96 A.D.

5 hours a week.

Given in 1929.

The completion of Parts (a) and (b) will entitle the student to credit in Latin 2.

Roman History text-book: Boak, *A History of Rome to 565 A.D.,* Macmillan. Roman History will be read privately; it is suggested that as much as possible of this reading be done before the opening of the Summer Session.

Preparatory reading recommended,—

Latin 1 (a). Cicero, *Pro Lege Manilia,* Chapters I-VIII inclusive.

Latin 2 (a). Cicero, *Pro Archia,* complete.

All students of Latin are recommended to use, in conjunction with reading of texts, Allen and Greenough's *New Latin Grammar,* Ginn, or any other good Latin Grammar.

MATHEMATICS.

1 (a). *Algebra.* Three hours a week.

Text-book: Wilson and Warren, *An Intermediate Algebra* (Chapters I to XV), Oxford.

1 (b). *Geometry.* Three hours a week.

Text-book: Buchanan and Nowlan, *Analytical Geometry* (Preliminary chapters.)

1 (c). *Trigonometry.* Four hours a week.

Text-book: Playne and Fawdry, *Practical Trigonometry,* Copp Clark. Wentworth and Hill, *Tables,* Ginn.

The completion of the three above courses will entitle the student to University credit in Mathematics 1. While the three subjects may be taken concurrently, students are advised to take the Algebra one session and the Geometry and Trigonometry the following session. In any case the Trigonometry should be taken before, or along with, the Geometry.

Preparatory reading recommended:

Algebra: Text, Chap. 1, Sections 10 to 18 inclusive, Chapters II and IV.

Geometry: Text, Chapters I and II.

Trigonometry: Text, Chapters II and III.

PHILOSOPHY.

1 (a). *General Psychology.*

(a) Outline of the subject; specialized fields of psychology.

(b) An outline description of the nervous system; mental development in relation to the development of the nervous system.

(c) A study of the principal phenomena of mental development and an analysis of the special mental functions, sensation, perception, imagination, memory, etc.

(d) A study of instincts, innate tendencies and emotions.

(e) Development of habits.

(f) Adult behaviour.

(g) Relation of general psychology to the work of the teacher.

Text-book: Warren, *Elements of Human Psychology,* Houghton Mifflin.

5 hours a week.

Supplementary reading: *Psychology,* Breese. *The Learning Process,* Colvin. *Social Psychology,* Chapters 1 to 5, McDougall.

Preparatory reading recommended: Terman, *The Measurement of Intelligence, The Intelligence of School Children, Hygiene of the School Child,* Houghton, Mifflin, Co.

1 (b). *Logic.*

Text-book: Mellone, *Introductory Text-book of Logic,* Blackwood (latest edition).

5 hours a week.

Preparatory reading recommended: Pages 1 to 70 of the text-book.

The completion of the two above courses by qualified students will entitle to University credit in Philosophy 1. They are, however, open without credit to all other students in the Summer Session.

4. *The History of Philosophy from the Renaissance to the present time.*

(a) From the Renaissance to Kant.

Given in 1928.

5 hours a week.

(b) From Kant to the present time.

Given in 1929.

5 hours a week.

Text-book: Alexander, *A Short History of Philosophy* (Maclehose, Jackson & Co.)

Works of reference: Rand, *Modern Classical Philosophers* and the various histories of Philosophy.

Preparatory reading recommended for 1928: The introductory chapter (pages 1-6) and Part IV (pages 171-228) of the text-book.

The completion of Parts (a) and (b) will entitle the student to credit in Philosophy 4.

9 (a). A study of the concept of intelligence; current theories of the nature and growth of intelligence; its practical bearings in modern life; principles and applications of the measurement of intelligence; history of the movement; the nature and causes of mental defects and peculiarities.

5 hours a week.

References: Spearman, *The Nature of Intelligence and the Principles of Cognition,* Macmillan. Woodrow, *Brightness and Dullness in Children,* Lippincott. Peterson, *Early Conceptions and Tests of Intelligence,* World Book Co. Gesell, *The Mental Growth of the Pre-School Child,* Macmillan. Freeman, *Mental Tests,* Houghton, Mifflin. Pintner, *Intelligence Testing,* Henry Holt.

9 (b). Principles of experimental procedure; method of measurement; practical training in the methods of individual and group examinations; treatment of subnormal, normal and gifted children.

5 hours a week.

Text: Terman, *Measurement of Intelligence,* Houghton, Mifflin Co.

References: Terman, *Stanford Revision of Binet Simon Scale,* Warwick and York. Wells, *Mental Tests in Clinical Practice,* World Book Co. Bisch, *Clinical Practice,* Williams and Wilkins. Mateer, *The Unstable Child,* Appleton. Hollingworth, *Gifted Children,* Macmillan. Wallin, *Clinical and Abnormal Psychology,* Houghton, Mifflin. Cyril Burt, *The Young Delinquent,* Appleton.

Preparatory reading recommended: Terman, *The Measurement of Intelligence, The Intelligence of School Children, Hygiene of the School Child,* Houghton Mifflin Co.

The completion of Parts (a) and (b) will entitle the student to credit in Philosophy 9.

10 (a). *Physiological Psychology.* The double-aspect theory of mind-body relation; the mechanism of behavior and the physical basis of consciousness; the psycho-physiology of instinct, habit, feeling, emotion, perception, ideation, intellect, character, temperament and personality.

5 hours a week. 1½ units.

Text: E. S. Robinson, *Practical Psychology,* Macmillan, 1927.

References: Robinson and Robinson, *Readings in General Psychology,* University of Chicago Press. Wm. MacDougall, *Physiological Psychology,* Temple Primers. Warren, *Human Psychology,* Houghton Mifflin. Ladd and Woodworth, *Physiological Psychology,* Scribners.

10 (b). *Abnormal Psychology.* The meaning of the abnormal; abnormalities of perception, memory, belief, instinct, emotion, personality, etc., in mental disease and in every-day life; mental dissociation; explanation of mental abnormalities; neurological and other physiological accounts, theories of the sub-conscious and psychoanalysis.

5 hours a week. 1½ units.

Text: J. W. Bridges, *An Outline of Abnormal Psychology,* R. G. Adams, Columbus, Ohio.

References: W. S. Taylor, *Readings in Abnormal Psychology,* Appleton Co. Wm. MacDougall, *An Outline of Abnormal Psychology.*

PHYSICS:

The First Year Physics has been divided into two courses, 1 and 2, so as to conform with the Winter Session requirements.

The same lectures will be given to the two groups, but a different examination will be given and some distinction will be made in laboratory and other assigned work.

1 (a). *Mechanics, Properties of Matter and Heat.*

Five lectures and two two-hour laboratory periods per week.

1 (b). *Sound, Light and Electricity.*

Five lectures and two two-hour laboratory periods per week.

The above courses are the equivalent of *Physics* 1 in the University Calendar, and are open to students who have *not*

obtained Matriculation standing in Physics. 1 (a) and 1 (b) may be taken concurrently.

Text-book: Stewart, *A Text-book for Colleges,* Ginn & Co.

References: Millikan, Gale & Pyle, *Elements of Physics,* Ginn & Co. Watson, *A Text-book of Physics,* Longmans & Co.

2 (a). *Mechanics, Properties of Matter and Heat.*
Five lectures and two two-hour laboratory periods per week.

2 (b). *Sound, Light and Electricity.*
Five lectures and two two-hour laboratory periods per week.

The above courses are the equivalent of *Physics* 2 in the University Calendar, and are open to students who have passed the Matriculation examination in Physics. 2 (a) and 2 (b) may be taken concurrently.

Text-book: Stewart, *A Text-book for Colleges,* Ginn & Co.

References: Watson, *A Text-book of Physics,* Longmans & Co. Edser, *General Physics for Students,* Macmillan & Co.

Preparatory reading:

Physics 1 (a). *Stewart,* Sections 1, 2, 3, 4, 5, 6, 12, 15, 16, 17, 18, 19, 21, 22, 23, 32, 35, 36, 37, 38, 39, 40, 49, 50 51, 52, 80, 81, 91, 92, 158, 159, 160, 161, 183, 184, 186, 193, 194, 202, 222, 223, and Chap. XXII.

Students are advised to work the problems at the end of each chapter.

Physics 1 (b). Review all work on Mechanics, Properties of Matter and Heat, and also Sections as follows: 340-361; 369-390; 396; 398-406; Chap. XXXVIII; 557-566.

Students are advised to work the problems at the end of each chapter.

Physics 2 (a). *Stewart,* Sections 1, 2, 3, 4, 5, 6, 12, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 28, 32, 35, 36, 37, 38, 39, 40, 41, 49, 50, 51, 52, 80, 81, 91, 92, 158, 159, 160, 161, 183, 184, 185, 186, 193, 194, 195, 202, 222, 223, 260, 264, 265, and Chap. XXII.

Students are advised to work the problems at the end of each chapter.

Physics 2 (b). Review all work on Mechanics, Properties of Matter and Heat, and also the following sections: 369-397; 398-406; Chap. XXXVIII; 557-566.

Students are advised to work the problems at the end of each chapter.

SUMMER SESSION

OF

The University of British Columbia

VANCOUVER, B. C.

NINTH SESSION, BEGINNING JULY 3RD, 1928

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The applicant should fill in and return this leaf to the Director of the Summer Session, without delay.

**I intend to register for the following courses in the Summer*

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Kindly have the University Book-store procure the following books for me.

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Signed.....

Address.....

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*This is not a registration form. All students are required to register at the Registrar's Office, on or before July 3rd.

The University of British Columbia issues the following official publications, any of which may be obtained on request from the Registrar:

1. Requirements for Matriculation.
2. The Calendar.
3. Announcement of the Summer Session.
4. Announcements of Short Courses in Agriculture.