The University of British Columbia

ANNOUNCEMENT
OF
THE SUMMER SESSION

SUPPLEMENT
TO
CALENDAR 1937-38

NINETEENTH SESSION

JULY 4TH TO AUGUST 19TH, 1938

VANCOUVER, BRITISH COLUMBIA

DATES

JULY		
4th	Monday - - - - -	Supplemental Examinations. *Last day for registration of all students. Lectures begin at 8.00 a.m.
8th	Friday - - - - -	Last day for changes in students' courses. Last day for payment of fees.
AUGUST		
17th	Wednesday - - -	Last day of lectures.
18th 19th	Thursday - - - - - Friday - - - - -	Final Examinations.

TIME-TABLE OF LECTURES

MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY

8.00-10.00 a.m.—	Biology 4	French 5 (d)
	Chemistry 2	Geography 3
	Economics 2	History 11 (a)
	Education 12	Mathematics 1
	Education 23	Mathematics 2
	English 2	Physics 1 and 2
	English 14	Social Service
9.00-10.00 a.m.—	Music Appreciation	
10.00-12.00 a.m.—	Chemistry 4	German 1
	Economics 9	History 20
	Education 10	Latin 1 (a) and 2 (a)
	Education 20	Mathematics 3
	English 16	Mathematics 12S and 15S
	French 1	Physics 3
	French 2	Psychology 1
	Geography 1	Psychology 6
	German, Beginners'	
1.00- 3.00 p.m.—	Biology 1	Guidance
	Chemistry 5	History 1
	English 17	Philosophy 1
	Government 4	Philosophy 7
	Greek 9S and Latin 7S (Ancient History)	Sociology 1
1.00- 2.00 p.m.—	Art Appreciation	
2.00- 3.00 p.m.—	Librarianship	

Note.—The laboratory hours in Biology, Chemistry and Physics will be arranged.

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.

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*The last day for registration is July 4th—the first day of lectures—but students will find it to their advantage to register before this date, either in person or by mail.

A late fee of $2.00 will be charged all students registering after this date.

The University of British Columbia

SUMMER SESSION, 1938

OFFICERS AND STAFF

LEONARD S. KLINCK, M.S.A., D.Sc., LL.D., Officier de l'Instruction Publique, President.

DANIEL BUCHANAN, M.A., Ph.D., LL.D., F.R.S.C., Dean of the Faculty of Arts and Science.

LEMUEL ROBERTSON, M.A., Director.

STANLEY W. MATHEWS, M.A., Registrar.

A. MACLUCAS, Bursar.

JOHN RIDINGTON, Librarian.

(Names in alphabetical order within the Departments)

Department of Botany

C. W. ARGUE, B.S.A., M.A., Professor of Biology, University of New Brunswick.
FRANK DICKSON, B.A., Ph.D., Associate Professor.

Department of Chemistry

E. H. ARCHIBALD, B.Sc., A.M., Ph.D., F.R.S.E.&C., Professor.
J. ALLEN HARRIS, M.A., Ph.D., Assistant Professor.
M. J. MARSHALL, M.Sc., Ph.D., Associate Professor.

Department of Classics

LEMUEL ROBERTSON, M.A., Professor and Head of the Department.

Department of Economics, Political Science, Commerce and Sociology

B. F. HALEY, A.M., Ph.D., Executive Head, Department of Economics, Stanford University.
ALBERT E. HINDMARSH, Ph.D., Instructor in Government, Assistant Dean, Harvard University.
LORNE T. MORGAN, M.A., Ph.D., Assistant Professor of Political Science, University of Toronto.
C. W. TOPPING, B.A., S.T.D., A.M., Ph.D., Associate Professor of Economics and Sociology.
MISS ELIZABETH MCVAY, Field Demonstrator in Family Case Work, School of Applied Social Sciences, Western Reserve University.

Department of Education

MARVIN L. DARSIE, Ph.D., Professor of Education and Dean of the Teachers' College, University of California at Los Angeles.
A. R. LORD, B.A., Principal, Normal School, Vancouver.
H. CLAY SKINNER, M.A., Ph.D., Assistant Professor of Education, Temple University.
C. B. WOOD, A.M., Lecturer.

Department of English

GEORGE H. CLARKE, M.A., D.Litt., F.R.S.C., F.R.S.L., Professor of English, Queen's University.
R. K. GORDON, M.A., Ph.D., Professor of English, University of Alberta.
HUNTER CAMPBELL LEWIS, M.A., Assistant Professor.
WILLIAM ROBBINS, M.A., Lecturer in English, Wesley College.

Department of Geology and Geography

ERIC H. FAIGLE, Ph.D., Professor of Geology and Geography, Syracuse University.
H. V. WARREN, B.A., B.A.Sc., B.Sc., D.Phil., Assistant Professor.

Department of History

A. E. R. BOAK, M.A., A.M., Ph.D., Professor of History, University of Michigan.
A. C. COOKE, M.A., Assistant Professor.
WALTER C. LANGSAM, B.S., A.M., Ph.D., Assistant Professor of History, Columbia University.
CHESTER MARTIN, M.A., B.Litt., LL.D., F.R.S.C., Professor and Head of the Department of History, University of Toronto.

Department of Mathematics

DANIEL BUCHANAN, M.A., Ph.D., LL.D., F.R.S.C., Professor and Head of the Department.
WALTER H. GAGE, M.A., Associate Professor.
JOHN MATHESON, M.A., Professor and Head of the Department of Mathematics and Dean of the Faculty or Arts, Queen's University.
L. RICHARDSON, B.Sc., Professor.

Department of Modern Languages

Miss DOROTHY DALLAS, M.A., Docteur de l'Université de Paris, Assistant Professor of French.
D. O. EVANS, M.A., D.Phil., D.Lett., Professor and Head of the Department.
W. T. E. KENNETT, M.A., Instructor.
Miss ISABEL MACINNES, M.A., Ph.D., Associate Professor of German.
Miss WESSIE M. TIPPING, M.A., Docteur de l'Université de Paris, Assistant Professor of French.

Department of Philosophy and Psychology

H. T. J. COLEMAN, B.A., Ph.D., Professor and Head of the Department.
FRANK DAVIS, Ph.D., Assistant Professor of Psychology, University of California at Los Angeles.
J. A. IRVING, M.A., Professor of Philosophy.
Miss FLORENCE MATEER, Ph.D., of the Psychological Service, Columbus, Ohio.

Department of Physics

O. E. ANDERSON, M.A., Ph.D., Lecturer.
J. G. DAVIDSON, B.A., Ph.D., Associate Professor.

Music Appreciation

IRA DILWORTH, A.M., Associate Professor of English.

Art History and Appreciation

Miss JEAN M. AULD, M.A., Assistant in the Department of Classics.

Librarianship

Miss HELEN CREELMAN, B.A., B.S., Librarian, Kitsilano Junior and Senior High School.

Guidance

WILLIAM F. REDDING, A.M., Assistant Superintendent Secondary Schools, Providence, R. I., Lecturer at Brown University.

Scholarships

The Summer Session Students' Association Scholarship

A scholarship of $30, given by the Summer Session Students' Association, will be awarded at the close of the Summer Session to the Summer Session student who in that session completes the second year with the highest standing. To be eligible a student must have taken his entire second year in The University of British Columbia Summer Session, Extra-sessional classes or Reading courses, and must be proceeding to a higher year in The University of British Columbia. Application must be made to the Registrar not later than the last day of the Summer Session examinations.

The British Columbia Teachers' Federation Scholarship

A scholarship of $50 given by the British Columbia Teachers' Federation will be awarded at the close of the Summer Session to the Summer Session student who, having been an active member of the British Columbia Teachers' Federation for the three years previous to the granting of the scholarship, completes, in that session, the third year of his University work with the highest standing in that year. To be eligible a student must have taken his entire third year in The University of British Columbia Summer Session, Extra-sessional classes or Reading courses, and must continue in his fourth year at The University of British Columbia. Application must be made to the Registrar not later than the last day of the Summer Session examinations.

(*b*) *Quantitative Analysis.*—This course embraces the more important methods of gravimetric and volumetric analysis.

Text-book: Willard and Furman, *Quantitative Analysis,* Van Nostrand.

Prerequisite: Chemistry 1.

Five lectures a week, and laboratory to be arranged.

Mr. Archibald. 3 units.

4 (*a*) *Theoretical Chemistry.*—An introductory course in the development of modern theoretical chemistry, including a study of gases, liquids and solids, solutions, ionization and electrical conductivity, chemical equilibrium, kinetics of reactions, thermochemistry and thermodynamics, colloids.

Text-book: Millard, *Physical Chemistry for Colleges,* McGraw-Hill.

Reference: Noyes and Sherrill, *Chemical Principles,* Macmillan.

Laboratory Text-books: Findlay, *Practical, Physical Chemistry,* Longmans; and Sherrill, *Laboratory Experiments on Physical Chemical Principles,* Macmillan.

Prerequisites: Chemistry 2 (except for students taking Honours in Physics) and Mathematics 2. Honour students majoring in Chemistry should take Mathematics 10 concurrently.

Eight lectures a week, and laboratory to be arranged.

Mr. Marshall. 3 units.

5. *Advanced Qualitative and Quantitative Analysis.*

(*a*) *Qualitative Analysis.*—The work of this course will include the detection and separation of the less common metals, particularly those that are important industrially.

(*b*) *Quantitative Analysis.*—The determinations made will include the more difficult estimations in the analysis of rocks as well as certain constituents of steel and alloys. The principles on which analytical chemistry is based will receive a more minute consideration than was possible in the elementary course.

Prerequisite: Chemistry 2.

Five lectures a week, and laboratory to be arranged.

Mr. Harris. 3 units.

Sociology

1. *Introduction to Sociology.*—The approach to the study of society is by way of the local community and its institutions. An evaluation of the importance of the geographic, the biological, the psychological and the cultural factors in the determination of the rise, growth and functioning of groups will be undertaken. There will be an attempt to discover fundamental principles and to trace these principles in their interrelationships. Several of the problems resulting from group contacts will be studied.

Text-books: Davis and Barnes, *Introduction to Sociology*, Heath; Dawson, Gettys, *Introduction to Sociology* (Revised Ed.), Ronald.

The rule that Economics 1 or Social Science 1 must be taken prior to this course or concurrently with it may be waived in the case of students in Nursing.

Ten hours a week. Mr. Topping. 3 units.

Social Service

5. *Case Work Methods.*—Selected case records which present complex or difficult situations are studied with a view to determining the principles of diagnosis and treatment involved.

Prerequisite: Social Service 2. 2 units.

6. *Child Welfare Case Studies.* — An intensive study of the problems met by a child welfare organization through discussion of specific records.

Prerequisite: Social Service 3. Miss McVay. 1 unit.

Education

10. *Educational Psychology.*

Text to be announced.

Prerequisite: Psychology 1.

Ten hours a week. Mr. Skinner. 3 units.

12. *School Administration and Law.*—The organization of the school system. The aims and characteristics of the Elementary, Junior High, and Senior High Schools. Principles of curriculum construction. Fundamentals of school administration and class management. The supervision of instruction. The school law of British Columbia.

Text-book to be announced.

References: *Manual of the School of Law of British Columbia;*

Text-books: Browning, *Complete Poetical Works,* Cambridge Edition; Arnold, *Poems,* Oxford Edition; Tennyson, *Poems,* Globe Edition; Pierce, *Century Readings in the Nineteenth Century Poets,* The Century Co.

For reference: Elton, *A Survey of English Literature, 1830-1880.*

Ten hours a week. Mr. Clarke. 3 units.

French

1. Maupassant, *Contes* (Nelson); Molière, *Le Bourgeois gentilhomme* (Didier); Mills, *Free Composition in French* (Nelson); *Les cent meilleurs poèmes lyriques* (Gowans & Gray).

For reference: Ritchie, *Third French Course* (Nelson).

Ten hours a week. Miss Tipping. 3 units.

Prerequisite: Junior matriculation French or its equivalent.

2. Balzac, *Gobseck* (Oxford University Press); Gautier, *Le capitaine Fracasse* (Dent). Independent reading will be required, to include Anatole France, *Le crime de Sylvestre Bonnard* (Nelson) and other prescribed texts. Independent readings:—Balzac, *Le Père Goriot;* Scarron, *Le Roman Comique.*

Composition in French based on the above.

Ten hours a week. Miss Dallas. 3 units.

Prerequisite: French 1 or its equivalent.

5 (*d*) *Contemporary French Literature.*—The poetic movement from Péguy to the Surréalistes. *Anthologie de la nouvelle poésie française* (Kra). Lectures expliquées from:— P. Valéry, *Variété i;* A. Gide, *Pages de Journal;* Valéry Larbaud, *Amants, heureux amants . . .* (Editions de la N. R. F.) Further readings to be specified.

This course is provided as a "special subject" for the course leading to the M.A., the prerequisites for which are stated in the University Calendar, p. 81. Other students may take it without credit.

Ten hours a week. Mr. Evans. 3 units.

German

Beginners' Course. — Evans and Röseler, *College German,* Crofts; Durian, *Kai aus der Kiste,* Holt.

Ten hours a week. Mr. Kennett. 3 units.

History

1. *Main Currents in Twentieth-Century History.*—This course completes the study of World History in the High Schools and offers a background for contemporary World problems. The following topics are discussed: The Great Powers at the Opening of the Century, Alliance and Entente, The Coming of the World War, The World War, The Peace Treaties, The New Map of Europe, Reparations and War Debts, Security and Disarmament, The League of Nations, The Russian Revolution and the U.S.S.R., Italy and Fascism, Germany from Empire to Third Reich, Post-War Britain, France and Democratic Europe, The New Balkans, The Little Entente and Poland, Nationalism and Imperialism in the Far East, The United States and World Peace.

Text-books: Benns, *Europe Since 1914;* Langsam, *The World Since 1914;* Cole, *The Intelligent Man's Review of Europe Today;* Schmitt, *The Triple Alliance and Triple Entente;* J. F. Horrabin, *Atlas of Current Events.*

Essays will be assigned throughout the Session.

Ten hours a week. Mr. Langsam. 3 units.

11 (*a*) *The Development and Problems of the British Empire-Commonwealth.*

The first two centuries of Empire — the age of discovery and colonization; the Old Colonial System in its political, economic and international aspects. Effects on the Empire of the American, French, and Industrial Revolutions. From Empire to Commonwealth — development and problems of Canada, Australia, New Zealand, South Africa, Ireland. Problems of the Commonwealth, economic, constitutional, international.

Text-books: J. A. Williamson, *Short History of British Expansion,* or D. C. Somervell, *The British Empire;* A. B. Keith (ed.), *Speeches and Documents on the British Dominions, 1918-1931;* R. G. Trotter, *The British Empire-Commonwealth.*

Readings and reports will be assigned throughout the Session. Bibliographies for voluntary summer reading will be supplied on application to the instructor in charge.

Ten hours a week. Mr. Cooke. 3 units.

20. *The Evolution of Canadian Self-Government.*—A survey of the period from the Peace of Utrecht to the present day. The following subjects will be dealt with: French and British Colonial Systems; British experience in Acadia; British policy after the

Mathematics

1. *Introductory Mathematics.* — An elementary course in Algebra including proportion, variation, logarithms, progressions, theory of quadratic equations, permutations, combinations, annuities, binomial theorem; Analytical Geometry including the study of the straight line and the circle, with an introductory study of the parabola, ellipse and hyperbola; elementary Trigonometry.

Text-books: Brink, *Algebra, a College Course,* Appleton-Century Co.; Nowlan, *Analytical Geometry,* McGraw-Hill; Brink, *Plane Trigonometry with Tables,* Appleton-Century Co.

Ten hours a week. Mr. Richardson. 3 units.

2. (*a*) *Algebra.* — The binomial theorem, complex numbers, induction, remainder theorem, Horner's method, exponential, logarithmic and other series, undetermined coefficients, partial fractions, convergence and divergence, determinants.

Text-book to be announced.

(*b*) *Calculus.* — An introductory course in differential and integral calculus, with various applications.

Text-book: Passano, *Calculus and Graphs,* Macmillan.

Ten hours a week. Mr. Matheson. 3 units.

3. *The Mathematical Theory of Investments.*—This course deals with the exponential law, the power law, curve fitting, the theory of interest, annuities, debentures, valuation of bonds, sinking funds, depreciation, probability and its application to life insurance.

Text-books: Bauer, *Mathematics Preparatory to Statistics and Finance,* Macmillan; Hart, *Mathematics of Investment* (Revised), Heath.

Ten hours a week. Mr. Gage. 3 units.

12s. *Differential Equations.* — Ordinary differential equations with various applications.

Text-book: Miller, *Differential Equations,* Macmillan.

Five hours a week. Mr. Buchanan. 1½ units.

15s. *Higher Algebra.*—Selected topics in higher algebra including infinite series, continued fractions, the theory of numbers, probability.

Text-book: Hall and Knight, *Higher Algebra,* Macmillan.

Five hours a week. Mr. Buchanan. 1½ units.

Philosophy

1. *Introduction to Philosophy.*—This course is intended for two classes of students: first, those who contemplate specializing in Philosophy either as Honour or Pass students in their Third and Fourth Years; and second, those who wish a single course which will give in an untechnical way a statement and discussion of fundamental philosophical problems and thus assist them in their special studies in other departments.

Text-book: Patrick, *Introduction to Philosophy,* Houghton-Mifflin, revised ed.

References: Brightman, *An Introduction to Philosophy;* Cunningham, *Problems of Philosophy;* Drake, *An Invitation to Philosophy;* Alexander, *A Short History of Philosophy;* Perry, *The Approach to Philosophy.*

Ten hours a week. Mr. Irving. 3 units.

7. *Philosophy of Education.*—A course of lectures and discussions dealing with educational movements since the beginning of the 19th century, and with the theories of life and of mind which are implicit in these movements.

Text-books: Spencer, *Education,* Everyman Edition; Dewey, *Democracy and Education,* Macmillan.

References: Butler, *The Meaning of Education;* Rousseau, *Emile;* Locke, *The Conduct of the Understanding;* Froebel, *The Education of Man;* Dewey, *The School and Society;* Articles in the *Cyclopedia of Education,* Macmillan.

Psychology 1 or Philosophy 1 is recommended as preparatory to this course.

Ten hours a week. Mr. Coleman. 3 units.

Psychology

1. *Elementary Psychology.*

Text-book: Dunlap, *Elements of Psychology,* Mosley Co.

Ten hours a week. Mr. Davis. 3 units.

6. *Clinical Psychology.*

Prerequisite: Psychology 4.

(Students will be admitted to this class only by permission of the instructor.)

Ten hours a week. Miss Mateer. 3 units.

Physics

1. *Introduction to Physics.*—A general study of the principles of mechanics, properties of matter, heat, light, sound and electricity, both in the lecture room and in the laboratory. The 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, Engineering and Advanced Physics. Students must reach the required standard in both theoretical and practical work. Open only to students who have not matriculated in Physics.

Text-book, hours, etc., see Physics 2.

2. *Elementary Physics.*—This course consists of a general course in Physics suitable for those students who have obtained standing in Junior Matriculation Physics or its equivalent. It covers mechanics, properties of matter, heat, light, sound, electricity and some of the more recent developments and theories.

The same lectures and practically the same laboratory work will be given for courses 1 and 2.

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

References: Knowlton, *Physics for College Students,* McGraw-Hill; Millikan, Gale and Edwards.

NOTE.—The work given in these two courses will be nearly parallel to that prescribed for Senior Matriculation, and may be taken as a Refresher Course by those who do not require it for credit.

Ten lectures and 2 two-hour laboratory periods a week.

Mr. Davidson. 3 units.

3. *Mechanics, Molecular Physics and Heat.*—A study of statics and dynamics of both a particle and a rigid body, the laws of gases and vapors, temperature, hygrometry, capillarity, expansion, and calorimetry.

Prerequisite: Physics 1 or 2.

Text-books: Reynolds, *Elementary Mechanics,* Prentice-Hall; Edser, *Heat for Advanced Students,* Macmillan.

Ten lectures and 2 three-hour laboratory periods a week.

Mr. Anderson. 3 units.

Courses for the Academic Certificate

The following courses, namely, *Music Appreciation, Art History and Appreciation, Librarianship, Guidance,* carry no University credit but are accepted by the Provincial Department of Education for the Academic Certificate.

Music Appreciation

This course is designed to give training in listening to Music to the end that the layman may gain greater enjoyment from the music he hears. It is an attempt to develop the listener's critical capacity by enriching and extending his musical experience.

Five hours a week. Mr. Dilworth. 1½ units.

Art History and Appreciation

This course is designed as a survey of the history of the visual arts from the earliest times to the Renaissance, to be followed, in the summer of 1939, by a similar course in Renaissance and Modern Art. The social significance of art will be emphasized, as well as a study of the formal elements upon which æsthetic values depend. The lectures will be illustrated by lantern slides, and reproductions from the Carnegie collection in the University Library.

Five hours a week. Miss Auld. 1½ units.

Librarianship

School Library Organization and Administration. — Simple organization of the library, standards for its planning and equipment; brief survey of technical and mechanical processes; the administration of the library activities of the school.

Functions of the School Library.—Purpose of the library in the school; teaching the use of books and libraries; carrying out the educational objectives of the school programme; brief outline of the principles of book selection; reading guidance.

Five hours a week. Miss Creelman. 1½ units.

Guidance

A course designed to meet the needs of teachers engaged in the work of Guidance in Junior and Senior High Schools.

Ten hours a week. Mr. Redding. 3 units.

DEPARTMENT OF UNIVERSITY EXTENSION

The Department of University Extension of the University, though not yet in a position to make a definite announcement, hopes to be able to offer, during the period of the Summer Session, Extension Courses likely to appeal to the Summer Session students. Details of such courses, if given, will be available before the opening of the Summer Session. Students wishing for further information should apply to the Director of the Department of University Extension.