The University of British Columbia

ANNOUNCEMENT
OF
THE SUMMER SESSION

SUPPLEMENT
TO
CALENDAR 1939-40

TWENTY-FIRST SESSION

JULY 3RD TO AUGUST 17TH, 1940

VANCOUVER, BRITISH COLUMBIA

DATES

JULY		
3rd	Wednesday - - -	Supplemental Examinations. *Last day for registration of all students. Lectures begin at 8.00 a.m.
9th	Tuesday - - - -	Last day for changes in students' courses. Last day for payment of fees.
11th	Thursday - - -	General meeting of students.
AUGUST		
1st	Thursday - - -	General meeting of students.
15th	Thursday - - -	Last day of lectures.
16th	Friday - - - -	Final Examinations.
17th	Saturday - - - -	

TIME-TABLE OF LECTURES

MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY

Courses will be arranged for time-table purposes in three groups:

A.—Biology 4, Chemistry 2, Economics 2, Social Service 5/6, Education 12, Education 23, English 2, English 9(*b*), Geography 2, History 24, Mathematics 1, French 3(*c*), Philosophy 2, Physics 1, Music, Physical Education 162.

B.—Biology 1, Chemistry 4, Economics 3, Education 10, Education 22, English 17, Geography 1, History 18, Mathematics 3, Mathematics 12S and 15S, French 1, French 2, German Beg., Latin 1 (*a*)/2(*a*), Psychology 6, Librarianship, Physical Education 174, Physical Education 171.

C.—Biology 2(*c*)/2(*d*), Chemistry 5, Economics 12, Government 3, Education 20, English 10, History 3, Mathematics 13, German 1, German 3(*a*), Latin 3, Philosophy 7, Psychology 1, Psychology 5, Physics 5, Physical Education 176.

TIME-TABLE

	Group A	*Group B*	*Group C*
July 3 - 19	8 - 10 a.m.	10 a.m. - 12 m.	1 -3 p.m.
July 22 - August 2	10 - 12 m.	1 - 3 p.m.	8 - 10 a.m.
August 5 - 15	1 - 3 p.m.	8 - 10 a.m.	10 - 12 m.

Examinations

August 16	8 - 10 a.m.	1 - 3 p.m.	
August 17			8 - 10 a.m.

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 3rd—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, 1940

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.

Department of Botany

ANDREW H. HUTCHINSON, M.A., Ph.D., F.R.S.C., Professor and Head of the Department.

JOHN DAVIDSON, F.L.S., F.B.S.E., Associate Professor.

JOHN ALLARDYCE, M.A., Ph.D., Assistant Professor of Biology.

REGINALD HAMMOND, B.A., Victoria High School.

Department of Chemistry

E. H. ARCHIBALD, A.M., Ph.D., F.R.S.E.&C., Professor of Analytical Chemistry.

M. J. MARSHALL, M.Sc., Ph.D., Associate Professor.

J. ALLEN HARRIS, M.A., Ph.D., Assistant Professor.

Department of Classics

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

O. J. TODD, Ph.D., Professor.

Department of Economics, Political Science and Sociology

HENRY F. ANGUS, B.A., B.C.L., M.A., F.R.S.C., Professor and Head of the Department.

C. W. TOPPING, B.A., S.T.D., A.M., Ph.D., Associate Professor of Economics and Sociology.

ARCHIBALD W. CURRIE, B.A., B.Com., M.B.A., Dr.Com.Sc., Associate Professor of Commerce.

Department of Education

MAXWELL A. CAMERON, M.A., Ph.D., Associate Professor and Acting Head of the Department.

FREDERICK THOMAS TYLER, B.Sc., M.A., B.Ed., Ph.D., Assistant Professor of Education and Psychology.

A. R. LORD, B.A., Principal, Normal School, Vancouver.

C. E. PHILLIPS, M.A., D.Paed., Ontario College of Education, University of Toronto.

P. GURREY, B.A., Ph.D., Senior Tutor and Head of the Division of Teaching English, The University of London Institute of Education.

Department of English

G. G. SEDGEWICK, B.A., Ph.D., Professor and Head of the Department.
W. L. MACDONALD, B.A., M.A., Ph.D., Professor.
THORLEIF LARSEN, M.A., B.A., F.R.S.C., Professor.
A. LIONEL STEVENSON, B.A., M.A., Ph.D., B.Litt., Assistant Professor of English Language and Literature, University of Southern California.

Department of Geology and Geography

GORDON DAVIS, B.A., M.A., Ph.D., Instructor.
S. S. VISHER, M.A., M.S., Ph.D., Professor of Geography, University of Indiana.

Department of History

W. N. SAGE, B.A., M.A., Ph.D., F.R.Hist.S., F.R.S.C., Professor and Head of the Department.
MISS SYLVIA THRUPP, M.A., Ph.D., F.R.Hist.S., Instructor.
PERCY ALVIN MARTIN, A.B., A.M., Ph.D., Professor of History, Stanford University.

Department of Mathematics

DANIEL BUCHANAN, M.A., Ph.D., LL.D., F.R.S.C., Professor and Head of the Department.
F. S. NOWLAN, B.A., A.M., Ph.D., Professor.
RALPH HULL, M.A., Ph.D., Professor.
MISS MAY L. BARCLAY, M.A., Instructor.

Department of Modern Languages

MISS ISABEL MACINNES, M.A., Ph.D., Associate Professor of German.
MISS DOROTHY DALLAS, M.A., D.Lett., Assistant Professor of French.
RONALD HILTON, M.A., Assistant Professor of French.
MRS. ALICE ROYS, A.M., Instructor in German.
MISS JOAN DANGELZER, B.A., D.Lett., Assistant in French.
FREDERICK SCHMITZ, Ph.D., Instructor in German, University of California.

Department of Philosophy and Psychology

H. T. J. COLEMAN, B.A., Ph.D., Professor and Head of the Department.
STANLEY D. PORTEUS, D.Sc., F.G.S., F.R.S.A., Professor of Clinical Psychology, Director of the Psychological Clinic, University of Hawaii.
JOHN R. REID, Ph.D., Assistant Professor of Philosophy, Stanford University.
DOUGLAS E. SMITH, M.A., Ph.D., Lecturer in Psychology, University of Alberta.
N. W. MORTON, M.A., Ph.D., Assistant Professor of Psychology, McGill University.

Department of Physics

HAROLD D. SMITH, M.A., Ph.D., Assistant Professor.
KENNETH C. MANN, B.A., Ph.D., Assistant Professor.

Music

HEALEY WILLAN, Mus.Doc., F.R.C.O., Professor in the Faculty of Music and Organist to the University of Toronto.

Librarianship

MISS MURIEL B. CARRUTHERS, B.A., Librarian, Magee High School, Vancouver.

Physical Education

MAURICE VAN VLIET, B.S., M.S., Instructor in Physical Education for Men.
MISS GERTRUDE E. MOORE, Instructor in Physical Education for Women.

Admission, Registration and Attendance

For requirements for admission to the University, information in regard to registration and attendance and regulations governing courses, see University calendar.

All candidates registering for the first time are required to present their certificates. The fee for examination of certificates, other than those issued in British Columbia, is $2.00, and this fee must accompany the application for admission.

The maximum credit for Summer Session work in any one Calendar year is 6 units.

FEES

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

Fees are payable on or before July 9th, otherwise an additional fee of $2.00 will be exacted.

Fee for "Late Registration" $2.00. (After July 3rd.)

Fee for "Late Payment of Class Fees" $2.00. (After July 9th.)

For Undergraduates

Registration—Payable before registration	$ 2.00
Minimum Class Fee	25.00
Per "Unit"	12.00
Summer Session Association	2.00

For Graduates

Registration—Payable before registration—	
For 6 units or less	$ 2.00
For over 6 units	5.00
Class Fees	125.00
Summer Session Association Fee	2.00

Special Fees

Supplemental Examination, per paper	$ 5.00
Graduation	15.00

Applications for supplemental examinations, accompanied by the necessary fees, must be in the hands of the Registrar at least two weeks before the date set for the examinations, and graduation fees two weeks before Congregation.

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.

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.

The University of British Columbia

Courses of Study

Biology

1. *Introductory Biology.*—The course is introductory to more advanced work in Botany or Zoology; also to courses closely related to Biological Science, such as Agriculture, Forestry, Medicine.

The fundamental principles of Biology, the interrelationship of plants and animals; life processes; the cell and division of labour; life-histories; relation to environment.

The course is prerequisite to all courses in Botany and Zoology.

A list of reference books is supplied.

Six lectures and eight laboratory hours a week.

Mr. Allardyce. 3 units.

2. *(c)* An introduction to genetical methods and problems.

Prerequisite: Biology 2 *(a)* and 2 *(b)*.

Ten hours a week. 2 units.

2. *(d)* A review of advanced phases and the more recent developments in genetics.

Prerequisite: Biology 2 *(a)* and 2 *(b)*.

Four hours a week.

Mr. Hutchinson. 1 unit.

4. *General Biology.*—A course primarily for students intending to teach science in the High Schools and whose major is not Biology. A review of the modern approaches to the morphology, histology, physiology and ecology of animals and plants, with applications to man.

A list of reference books is supplied.

Prerequisite: Biology 1. (Except for graduate students not requiring credit.)

Five lectures and ten laboratory hours a week.

Mr. Davidson.
Mr. Hammond. 3 units.

Chemistry

2. *Qualitative and Quantitative Analysis.*

(a) Qualitative Analysis.—A study of the chemical reactions of the common metallic and acid radicals, together with the theoretical considerations involved in these reactions.

Text-book: A. A. Noyes, *Qualitative Analysis,* Macmillan.

References: Miller, *The Elementary Theory of Qualitative Analysis,* The Century Co.; Hammett, *Solutions of Electrolytes,* McGraw-Hill.

(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.

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.

Economics

2. *Economic History.*—A survey of the factors of social and economic significance in the development of society from early times leading to a consideration of the more important phases of European organization with special reference to Great Britain, and in particular to the village community, feudal organization, governmental control of industry and trade, the domestic system, the industrial revolution, and agricultural progress, including a survey of economic development on the North American continent during the nineteenth century.

Text-book: Heaton, *A History of Trade and Commerce,* Nelson.

Readings: Peake, *The English Village,* Benn; Knight, Barnes, and Flugel, *Economic History of Europe,* Houghton Mifflin; Day, *History of Commerce,* Longmans; Knowles, *Industrial and Commercial Revolutions,* Dutton; Fay, *Great Britain from Adam Smith to the Present Day,* Longmans; Hobson, *Evolution of Modern Capitalism,* Scott; Ashley, *Economic Organisation of England,* Longmans; Mantoux, *The Industrial Revolution in the Eighteenth Century,* Cape; Ernle, *English Farming Past and Present,* Longmans; Faulkner, *American Economic History,* Harpers; Innis, *Economic History of Canada,* Ryerson; Bland, Brown and Tawney, *English Economic History Select Documents,* Bell.

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

3. *Labour Problems and Social Reform.*—A study of the rise of the factory system and capitalistic production, and of the more important phases of trade unionism in England, Canada, and the United States. A critical analysis of various solutions of the labour problem attempted and proposed; profit-sharing, co-operation, arbitration and conciliation, scientific management, labour legislation, and socialism.

Text-books: Daugherty, *Labour Problems,* revised ed., 1938, Houghton Mifflin; Yoder, *Personnel and Labour Relations,* 1938, Prentice-Hall.

Assigned readings.

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

12. *Statistics 1.*—Statistical methods in relation to economic and social investigations; statistical groups; types of average; statistical series in time; trend and fluctuation; index numbers; methods of measuring correlation; elementary probabilities and the normal curve of error; problem of sampling.

Text-books: Mills, *Statistical Methods;* Mills and Davenport, *A Manual of Problems and Tables in Statistics,* Holt.

Prerequisite: Mathematics 2 or 3.

Four hours lectures and six hours laboratory a week. Mr. Drummond. 3 units.

Government

3. *Imperial Problems.*—A course on problems of government within the British Empire.

Readings to be assigned.

Ten hours a week. Mr. Angus. 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.

Five hours a week. 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.

Five hours a week. 1 unit.

Education

10. *Educational Psychology.*—

Part I. Elementary statistics applied to education: graphical representation of data; measures of central tendency, variability and relationship; the normal curve.

Part II. Applications of psychology to education: maturation and development of behaviour; individual differences; the exceptional child; the rôle of emotion; the learning process; transfer of training; measurement of intelligence, personality and achievement; psychology of school subjects; educational engineering.

Text: Stroud, J. B., *Educational Psychology,* Macmillan, 1935.

Prerequisite: Psychology 1.

Ten hours a week. Mr. Tyler. 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 place of the library

in the school; the aims and organization of guidance; the school law of British Columbia.

References: *Manual of the School Law of British Columbia; Report of the School Survey Commission of British Columbia;* King, *School Finance in British Columbia.*

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

20. *History of Education.*—An advanced course.—The course, in addition to dealing with the history of education in Europe, will give attention to the history of education in the United States and Canada.

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

22. *Philosophy of Education.*—An advanced course.—Current problems in educational philosophy will receive special emphasis.

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

23. *Problems in Education.* An advanced course dealing with present-day problems, chiefly in educational administration, with emphasis on the comparative approach.

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

English

2. *Literature.*—Studies in the history of English Literature.

Lectures and texts illustrative of the chief authors and movements from Tottel's Miscellany to Shelley. Legouis, *A Short History of English Literature,* Oxford.

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

9*(b)*. *Shakspere.*—

i. A detailed study of the text of *A Midsummer Night's Dream, 1 Henry IV, Othello, Antony and Cleopatra,* and *Coriolanus.*

ii. Lectures on Shakspere's development, on his use of sources, and on his relation to the stage and the dramatic practice of his time.

Students will provide themselves with annotated editions of the five plays named above, and with *The Facts About Shakespeare,* by Neilson and Thorndike, Macmillan. They are advised to get *The Complete Works of Shakespeare,* ed. Kittredge, or the *Cambridge Shakespeare,* ed. Neilson, or the *Oxford Shakespeare,* ed. Craig.

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

10. *The Drama to 1642.*—The course begins with a study of the Theban plays of Sophocles and of Aristotle's theory of tragedy. The main subject of the course is Elizabethan drama: (1) its beginnings in the Miracle and Morality Plays and in the Interludes; (2) its development in Shakspere's predecessors — Lyly, Peele, Greene, Kyd, and Marlowe; (3) its culmination in Shakspere; and (4) its decline in Jonson, Beaumont and Fletcher, Middleton, Webster, Massinger, Shirley, and Ford.

Texts: Campbell, *Sophocles in English Verse,* World's Classics, Oxford; *Everyman and Other Interludes,* Dent; *Elizabethan Dramatists, Other Than Shakespeare,* ed. Oliphant, Prentice-Hall; *Shakespeare,* Shakespeare Head Press, or the *Cambridge Shakespeare,* ed. Neilson, Houghton Mifflin.

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

17. *Victorian Poetry.*—This course is concerned chiefly with the work of Tennyson, Browning, and Arnold. A few lectures at the close of the term will be devoted to a survey of the development of later poetry.

Texts: Browning, *Complete Poetical Works,* Cambridge edition; Arnold, *Poems,* Oxford edition; Tennyson, *Poems,* Globe edition; Pierce, *Century Readings in the Nineteenth Century Poets,* Century.

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

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

French

1. *French Short Stories* (Nelson); Molière, *Le Bourgeois gentilhomme* (Didier); Mills, *Free Composition in French* (Nelson); *Les cent meilleurs poèmes lyriques* (Gowans & Gray). For independent reading: Constantin-Weyer, *Cavelier de la Salle* (Ferenczi).

For reference: Berthon, *French Grammar* (Dent).

Prerequisite: Junior matriculation French or its equivalent.

Ten hours a week. Miss Dangelzer. 3 units.

2. Balzac, *Eugénie Grandet* (Oxford); *Anatole France* (Nelson). Independent reading to include Balzac, *Le père Goriot* (Nelson); A. de Chateaubriant, *Monsieur des Lourdines* (Ferenczi); Louis Hémon, *Maria Chapdelaine.*

Composition in French based on the above readings.

Prerequisite: French 1 or its equivalent.

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

3. *(c) Phonetics.*—Text-books: Klinghardt and Fourmestraux, *French Intonation Exercises;* Nicolette Pernot, *Exercices de prononciation française.* Training in speaking and essay writing. This course should be taken by all who elect French as a Third Year subject. It may not be substituted for French 3 *(a).*

Ten hours a week. Miss Dallas. 3 units.

German

Beginners' Course.—Schinnerer, *Beginning German,* Macmillan; Durian, *Kai aus der Kiste,* Holt.

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

1. Texts: Schinnerer, *Continuing German,* Macmillan; Kastner, *Das fliegende Klassenzimmer,* Crofts; Röseler, *Moderne Deutsche Erzähler,* Norton; Alexis and Pfeiler, *In Deutschland,* Midwest Book Co.; Bruns, *German Lyrics,* Heath.

Prerequisite: Junior Matriculation or Beginners' German.

Ten hours a week. Mrs. Roys. 3 units.

3. *(a) The Classical Period.*—Lectures on the development of eighteenth century literature. Texts for special study: Lessing, *Emilia Galotti,* Heath; Goethe, *Faust I,* Heath; Schiller, *Die Jungfrau von Orleans,* Holt. Some knowledge will also be required of Lessing's *Minna von Barnhelm,* Goethe's *Iphigenie,* and Schiller's *Maria Stuart.* Composition text: Whitney and Stroebe, *German Composition,* Holt.

Ten hours a week. Miss MacInnes. 3 units.

Before entering German 3 *(a)* students must read: Fleissner, *Deutsches Literatur-Lesebuch,* Crofts, to page 92. (Robertson, *The Literature of Germany,* Home University Library, is also recommended.)

Geography

1. *Principles of Geography.*—This introductory course aims to develop in the student the point of view of modern geography and to furnish a foundation or background that will be useful not alone to those who may intend to continue a study of geography or to teach it in the schools, but also to those who intend to study history, economics, and other subjects, or to enter business or professional careers into which geographical considerations enter.

Since geography is a study of the surface of the earth and its relation to man, the course involves consideration of earth relations;

weathering and soils; land forms and oceans; climates; natural resources; and a brief introduction to the study of man and his response to the geographical environment.

Text-book: James, *An Outline of Geography,* Ginn.

An atlas—failing a large, comprehensive atlas, one of the following cheap ones will serve: *The University Atlas,* Geo. Philip & Son; *Canadian School Atlas,* Dent; *Goode's School Atlas,* Rand McNally; *Appleton's Standard School Atlas,* Appleton-Century.

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

2. *Weather and Climate.*—A course covering in a general way the whole field of weather phenomena and the description and distribution of climatic types.

Text-book: Trewartha, *An Introduction to Weather and Climate,* McGraw-Hill.

Reference: Blair, *Weather Elements,* Prentice-Hall.

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

History

3. *Canada West of the Great Lakes.*—The place of Western Canada in Canadian development; Anglo-French rivalry in the West; struggle for supremacy between the Hudson's Bay Company and the North West Company; the Selkirk Settlement; discovery and exploration of the Pacific Coast; the Maritime fur trade; the North West Company in British Columbia; the Western Department of the Hudson's Bay Company, 1821-70; rivalries in Old Oregon; the colonial period of British Columbia; Confederation; the Riel rebellion; the rise of the new West; the agrarian movement on the prairies; development of the Province of British Columbia.

Text-books: Wittke, *A History of Canada;* Howay, *British Columbia, the Making of a Province;* Sage, *Sir James Douglas and British Columbia;* England, *The Colonization of Western Canada;* Morton, *A History of the Canadian West to 1870-71.*

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

18. *British History, 1485-1760.*—This course offers a general survey of political, economic, social, and cultural change in the Tudor and Stuart periods and the early 18th century. Some knowledge of contemporary literature in any of the three periods will be helpful.

Text-books: Trevelyan, *History of England;* Adams and Stephens, *Select Documents of English Constitutional History;* Bland, Brown and Tawney, *English Economic History, Select Documents.*

Ten hours a week. Miss Thrupp. 3 units.

24. *History of Latin America.*—An outline course dealing with the Iberian background, the Spanish and Portuguese colonial system, the Spanish-American Wars of Independence, the development since independence of the leading Latin American nations, the Monroe Doctrine, Pan-Americanism and the relations between the United States and Latin America.

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

Latin

1. *(a)* Bonney and Niddrie, *Latin Prose and Poetry* (pages 159-196), Ginn & Co.; Pilsbury, *Latin Prose Composition* (Chap. I-XIII), Clarendon Press; Robertson and Robertson, *The Story of Greece and Rome* (Chap. I-XVI), Dent.

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

2. *(a)* Bonney and Niddrie, *Latin Prose and Poetry* (pages 217-264), Ginn & Co.; Robertson and Robertson, *The Story of Greece and Rome* (Chap. XXXIII-XLIII), Dent.

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

3. Texts: Terence, *Phormio,* Bond and Walpole, Macmillan; Virgil, *Bucolics and Georgics,* Page, Macmillan.

Ten hours a week. Mr. Todd, Mr. Robertson. 3 units.

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. Miss Barclay. 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-book: Hart, *Mathematics of Investment*, revised, Heath.

Reference: Bauer, *Mathematics Preparatory to Statistics and Finance*, Macmillan.

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

13. *Plane and Solid Analytical Geometry.*—A general study of the conics and systems of conics, and elementary work in three dimensions.

Text-book: Nowlan, *Analytical Geometry*, McGraw-Hill.

Ten hours a week. Mr. Nowlan. 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

2. *Ethics.*—The development of ethical thought within the history of civilization from the age of the Greeks to the present day. The historical and evolutionary approach will be followed by a systematic discussion of the fundamental problems of ethics in the light of the modern sciences of man and society.

Text-book: Dewey and Tufts, *Ethics*, revised edition, Holt.

References: Hobhouse, *Morals in Evolution;* Kant, *Metaphysic of Morals;* Mill, *Utilitarianism;* Dewey, *Human Nature and Conduct.*

Ten hours a week. Mr. Reid. 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.*—Psychology as a science; the nervous system; sensation; perception; emotion; motivation; attention; learning; thinking; intelligence; personality. This course is introductory to courses in advanced psychology. Not open to First Year students.

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

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

5. *Abnormal Psychology.*—The study of abnormal behaviour and mental processes as an approach to the understanding of human nature. Open to Third and Fourth Year students.

Text-book: Moss and Hunt, *Foundations of Abnormal Psychology,* Prentice-Hall.

Prerequisite: Psychology 1.

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

6. *Psychological Tests and Measurements.*—The History, principles, and application of mental tests. The lectures will be supplemented with demonstrations and practice in administering individual and group tests. Considerable attention will be given in the course to studies of primitive mentality by the lecturer and others.

This course should be of interest not only to students of Education and Psychology but also to students of History and of the Social Sciences.

Text-book: Freeman, *Mental Tests,* Houghton Mifflin.

Prerequisite: Psychology 1.

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

Physics

1. *Elementary Physics.*—A study of general college physics suitable for those students who have obtained credit for Junior Matriculation Physics or its equivalent. The course covers the fundamental

principles of mechanics, properties of matter, heat, light, sound, electricity, and some of the more recent developments in physics in a more quantitative way than Physics A.

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

References: Watson, *A Text-book of Physics,* Longmans; Kaye and Laby, *Physical and Chemical Constants,* Longmans.

Prerequisite: Junior Matriculation Physics or Physics A.

Ten lectures and four two-hour laboratory periods per week. Mr. Smith. 3 units.

5. *Electricity and Magnetism.*—A study of the fundamentals of magnetism and electricity, including alternating currents and electron physics.

Prerequisite: Physics 1.

Text-book: Zeleny, *Elements of Electricity,* McGraw-Hill.

Ten lectures and four three-hour laboratory periods per week. Mr. Mann. 3 units.

Courses for the Academic Certificate

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

Music

1. *The Study of Form in Music;* elementary forms, their origin and development.

Text-book: Anger, *Form in Music.*

References: Harding, *Analysis of Beethoven's Pianoforte Sonatas,* Music Primers, Novello & Co.; Iliffe, *Analysis of the 48 Preludes and Fugues,* Music Primers, Novello & Co.; H. C. Colles, *The Growth of Music,* Oxford University Press.

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

Librarianship

The Functions of the School Library.—This course is designed for teachers and administrators as well as for those engaged in school library work. It emphasizes the objective of school library work as the core of educational activity and presents the library as the integrating factor in the school programme. The course will include the place of the library in the modern school, library management and the use of the library by teachers and pupils.

(The Department of Education wishes to inform those desiring to proceed to the Teacher-librarian Certificate, issued by it, that they may substitute this course (1½ units) plus a project in school library work (1 unit) for course 211 in the Provincial Summer School Bulletin. Application for the project should be made to the Summer School of Education.)

Five hours a week. Miss Carruthers. 1½ units.

Physical Education

162. *Play and Playgrounds.*—The nature and function of play; adaptation of activities to the age grade; programme making; instruction; management and supervision of playgrounds. For credit a student is required to spend some hours in charge of a playground.

Five weeks. Miss Moore, Mr. Van Vliet. 1¼ units.

171. *Sports' Education, Coaching, and Refereeing* (Men and Women).—Instruction and practice in soccer, touch football,

basket-ball, volley-ball, lacrosse, softball, track, and field. Coaching and refereeing.

Five weeks. Mr. Van Vliet, Miss Moore. 1¼ units.

174. *Elementary Folk-dancing* (Men and Women).—A course acquainting the teacher with the folk and character dances suitable for the elementary school. Emphasis will be placed on methods of teaching and performance.

Five weeks. Miss Moore. 1¼ units.

176. *Physical Education Activities* (Men).—Contests, pyramid-building, tumbling, apparatus work; methods of teaching; safety devices. For credit in 176H and 176S a study must be made of the materials for the secondary-school level and high performance will be required.

Five weeks. Mr. Van Vliet. 1¼ units.

SUMMER SESSION, 1939

Registration

	Registration
Partial	11
First Year	64
Second Year	214
Third Year	98
Fourth Year	91
Graduates	216
Total	694
Auditors	25
Social Service	31

The following courses will be given in the Summer Session of 1941 (arranged in groups for time-table purposes):

A	B	C
Biology 2(*a*)/2(*b*)	Biology 1	Botany 1
Chemistry 4	Chemistry 3	Chemistry 1
Economics 1	Economics 4	Government 3 or Sociology 1
Economics 5	Education 11	Education 21
Education 12	English 14	English 16
Education 22	French 1	German 2
English 2	French 2	History 1
English 5	German, Beginners'	Latin 4
French 3(*a*)	Geography 1	Mathematics 14
Geography 4	History 14	Mathematics 2
History 20	Latin 1(*b*)/2(*b*)	Philosophy 9
Mathematics 1	Mathematics 10	Psychology 1
Mathematics 4/18	Psychology 7	Physics 9
Philosophy 4		Music
Physics 1		

University Health Service

The University Health Service provides a Health Service for students attending the Summer Session.

All students should report to the Health Office within a reasonable time after the Session commences.

Students must report any disabilities or illnesses, including those of a communicable nature, which may occur during the Session.

Students exposed to any communicable disease are to report immediately to the Health Service. Such persons may be permitted, by special order of the Medical Health Officer, to attend the University for a prescribed period, despite the exposure. Such students shall report daily (or oftener at the discretion of the M. H. O.) to the University Health Service for such prescribed period.

Preventive vaccinations and inoculations are given by the Health Service. The Medical Officer will be available by appointment for consultations with students on health problems.

During the Summer Session the Office is open during the mornings only.

DEPARTMENT OF UNIVERSITY EXTENSION

The Department of University Extension, though not yet in a position to make a definite announcement regarding all the courses which it hopes to offer during the Summer Session, has made tentative arrangements for the following:

(a) Dramatics.

(b) Motion Picture Appreciation.

(c) Handicrafts.

As these courses are likely to appeal to Summer Session students, it is suggested that those wishing further information should apply to the Director of the Department of University Extension.