E. Fugler

PUBLICATIONS OF THE UNIVERSITY OF BRITISH COLUMBIA

The University of British Columbia

ANNOUNCEMENT
OF
THE SUMMER SESSION

SUPPLEMENT
TO
CALENDAR 1946-47

TWENTY-EIGHTH SESSION
JULY 2ND TO AUGUST 16TH, 1947

VANCOUVER, BRITISH COLUMBIA

VOL. 32 GENERAL SERIES No. 3

EXTENSION DEPARTMENT
SHORT COURSES

WORKSHOP IN INTERNATIONAL RELATIONS

A survey of major current developments in the field of international relations, with emphasis on Canadian-United States relations within the larger framework of world organization. The following subject matter will be included:—Political, economic and financial aspects of world organization. Specific areas and their relation to world organization: Canada and the Commonwealth; Canada and the United States; the United States and Latin America; Europe; Russia; Asia. Special attention will be given to Far Eastern and Pacific problems.

Established on the suggestion of the Canada-United States Committee on Education, the Workshop is intended to bring together in study, discussion and social activities teachers and students from Canada and the United States, with a view to strengthening understanding between the two countries.

The Workshop carries credit in the Department of History in Third or Fourth Year.

Fifteen hours a week for five weeks (July 7th to August 8th). 3 units.

Mr. Tomlinson, Director, with special lecturers.

SUMMER SCHOOL OF THE THEATRE: Courses in dramatics that are available to University undergraduates seeking credits in their junior and senior years, as well as to actors, directors and teachers who are not University undergraduates but who desire training and experience in the Theatre. Directors of the School: Theodore Viehman, Dorothy Somerset, and staff of instructors.

RADIO SCRIPT WRITING: A four weeks' lecture and workshop course conducted by Lister Sinclair, one of Canada's foremost writers for radio.

PAINTING FOR PLEASURE: A series of sketching parties on and near the University campus lasting for five weeks, under the guidance of well-known Canadian artists.

MUSIC APPRECIATION: A five weeks' course offering noon-hour lecture and listening programmes designed to provide pleasure and to increase the appreciation of fine music. Lecturer: Dr. Ida Halpern, Ph.D., Mus.D. (Vienna).

WEAVING: A two weeks' course. Lecturer: Mrs. Mary Atwater.

Further information concerning any of these courses may be obtained from the Department of University Extension.

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The University of British Columbia
SUMMER SESSION, 1947

DATES

JULY		
2nd	Wednesday - - -	*Last day for registration of all students. Lectures begin at 8.00 a.m.
3rd	Thursday - - -	Supplemental and Directed Reading Course Examinations.
4th	Friday - - - -	General meeting of students.
7th	Monday - - - -	Last day for changes in students' courses Last day for payment of fees.
31st	Thursday - - -	General meeting of students.
AUGUST		
13th	Wednesday - - -	Last day of lectures.
14th	Thursday - - -	Final Examinations. (Three days.)
15th	Friday - - - -	
16th	Saturday - - -	

*The last day for registration is July 2nd—the first day of lectures. A fee of $2.00 will be charged all students registering after this date.

Note

Lectures will be held on Saturday, July 5th. No lectures will be held on the remaining Saturdays of the Summer Session.

TIME TABLE OF LECTURES

Subject	*Room*	*Subject*	*Room*
8-10 a.m.		8-10 a.m.	
Poultry Husbandry 200/201	Ag. 101	Geography 101	Ap. 102
Biology 100	Ap. 101	Geography 306	Hut M16
Commerce 261	Hut M8	Government 300	A. 207
Commerce 371	Hut M9	History 202	A. 106
Economics 200	A. 204	Mathematics 100 (Sec. 1)	A. 101
Economics 335	Hut M21	Mathematics 201 (Sec. 1)	A. 105
Education 535	Ag. 100	Physics 100 (Sec. 1)	Sc. 200
English 100/101 (Sec. 1)	A. 203	Physics 200	Sc. 210
English 200	Ap. 100	Physics 220	Sc. 207
English 433	A. 103	Physics 300	Hut S4
French 100	A. 104	Psychology 101	A. 100
French 202	A. 108	Psychology 202	Hut A6
French 300	A. 201	Sociology 430	A. 206
		Zoology 200	Ap. 204
10-12 noon		10-12 noon	
Agricultural Economics 301	Ag. 101	German 90	A. 108
Bacteriology 201	Sc. 413	German 100	A. 207
Chemistry 100	Sc. 300	German 101	A. 208
Chemistry 200	Sc. 400	German 200	A. 104
Chemistry 225	Sc. 200	History 101	A. 204
Chemistry 300	Sc. 213	History 312	A. 106
Chemistry 304	Sc. 207	Home Economics 100/200	Hut S6
Commerce 391	Hut M8	Mathematics 100 (Sec. 2)	A. 101
Economics 315	Hut A5	Mathematics 201 (Sec. 2)	A. 105
Economics 405	Hut A4	Philosophy 100	A. 100
Education 510 (11 a.m.)	Ag. 100	Philosophy 200	Hut A6
Education 524 (10 a.m.)	Ag. 100	Physics 100 (Sec. 2)	Hut S5
English 100/101 (Sec. 2)	A. 203	Spanish 400	Ap. 102
English 426	A. 206		
1.15-3.15 p.m.		1.15-3.15 p.m.	
Biology 300/301	Ap. 101	History 331	A. 108
Commerce 381	Hut A5	Mathematics 100 (Sec. 3)	A. 101
Commerce 486	Hut A6	Mathematics 202	A. 206
Economics 300	A. 204	Mathematics 302	Hut A4
Education 531 (1.15 p.m.)	A. 206	Psychology 200	Hut O5
Education 561 (2.15 p.m.)	A. 206	Philosophy 302	A. 207
English 100/101 (Sec. 3)	A. 203	Spanish 90	A. 104
English 411	A. 103	Spanish 101	A. 105

The University of British Columbia

SUMMER SESSION, 1947

OFFICERS AND STAFF

NORMAN A. M. MACKENZIE, C.M.G., M.M. and Bar, B.A., LL.B., LL.M., LL.D., D.C.L., K.C., F.R.S.C., President.

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F. M. CLEMENT, B.S.A., M.A., Dean of the Faculty of Agriculture.

M. A. CAMERON, M.A., Ph.D., Director.

CHARLES B. WOOD, B.A., A.M., Registrar.

A. MACLUCAS, Bursar.

WILLIAM KAYE LAMB, M.A., Ph.D., Librarian.

Department of Agricultural Economics

F. M. CLEMENT, B.S.A., M.A., Professor and Head of the Department.
E. D. WOODWARD, M.S.A., Instructor.

Department of Bacteriology and Preventive Medicine

V. J. FREEMAN, B.A., M.D., Instructor.

Department of Biology and Botany

Lecturers to be appointed.

Department of Chemistry

R. H. CLARK, M.A., Ph.D., F.R.S.C., Professor and Head of the Department.
M. J. MARSHALL, M.Sc., Ph.D., F.R.S.C., Professor.
J. ALLEN HARRIS, M.A., Ph.D., Professor.
Lecturers to be appointed.

Department of Commerce

G. F. CURTIS, LL.B., B.A., B.C.L., Professor of Law and Dean of the Faculty of Law.
R. A. MAHONEY, B.A., M.B.A., Lecturer.
L. G. J. WONG, B.Com., M.B.A., Lecturer.
G. JARMAIN, B.A., Professor of Business Administration, University of Western Ontario.
L. C. WAGNER, M.A., Professor and Acting Head of the Department of Commerce, University of Manitoba.

Department of Economics, Political Science and Sociology

H. F. ANGUS, B.A., B.C.L., M.A., F.R.S.C., Professor and Head of the Department.
G. F. DRUMMOND, M.A., M.Sc., Professor.
E. W. DUVALL, M.A., Ph.D., Lecturer.
M. M. DAVISSON, M.A., Ph.D., Professor and Chairman of the Department of Economics, University of California.
J. L. MACDOUGALL, M.A., Professor of Commerce, Queen's University.
W. J. WAINES, M.A., Professor of Political Economy, University of Manitoba.

Department of Education

M. A. CAMERON, M.A., Ph.D., Professor and Head of the Department.
BOYD H. BODE, M.A., Ph.D., late Professor of Education, Ohio State University.
H. H. REMMERS, M.A., Ph.D., Professor of Education and Psychology, and Director, Division of Educational Reference, Purdue University.
F. P. ROBINSON, M.A., Ph.D., Professor of Education, Ohio State University.

Department of English

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H. C. LEWIS, M.A., Associate Professor.
S. E. READ, M.A., Associate Professor.
M. STEINBERG, B.A., Assistant Professor.
C. MILLAR, M.A., B.Ed., Lecturer.
H. HUGHES, M.A., Lecturer.
J. M. LOTHIAN, M.A., Bateman Professor of English, University of Saskatchewan.

Department of French

H. ASHTON, M.A., Litt.D., D.Lett., F.R.S.C., Officier de l'Instruction Publique, Chevalier de la Legion d'Honneur, Lecturer.
RONALD OLDHAM, D.F.C., Croix de Guerre, B.A., Lecturer.
ALLAN F. WALSH, B.A., Lecturer.

Department of Geology and Geography

H. V. WARREN, B.A., B.A.Sc., B.Sc., D.Phil., F.G.S.A., F.R.S.C., Assoc. Inst. M.M., Professor of Mineralogy and Petrography.
G. A. CUMMING, B.Sc., Ph.D., Lecturer in Geography and Head of the Department of Geography, St. Andrews University.

Department of German

MISS J. MACINNES, M.A., Ph.D., Professor and Head of the Department.
M. A. COWIE, M.A., Ph.D., Assistant Professor.
MRS. J. HARRIS, M.A., Instructor.
C. E. BORDEN, M.A., Ph.D., Associate Professor.

Department of History

F. H. SOWARD, B.A., B.Litt., Professor and Director of International Studies.
LOUIS A. MACKAY, M.A., B.A., (Oxon.), Associate Professor of Classics.
MACK EASTMAN, B.A., Ph.D., Professor of History, University of Saskatchewan.
GEORGE W. BROWN, M.A., Ph.D., Professor of History, University of Toronto.

Department of Home Economics

MISS BARBARA NEWCOMBE, B.Sc. in H.E., Assistant Professor.
MISS CARLENE ROSE, M.Sc., Lecturer.

Department of Mathematics

D. DERRY, M.A., Dr.Phil., Associate Professor.
D. G. DUNCAN, M.A., Lecturer.
N. S. FREE, M.A., Lecturer.
MISS E. JENKINSON, B.A., Lecturer.
J. E. A. PARNALL, B.A., Lecturer.
W. H. SIMONS, M.A., Lecturer.
B. W. STRAIGHT, B.A., Lecturer.

Department of Philosophy and Psychology

E. S. W. BELYEA, M.A., Assistant Professor.
E. MACDONALD, B.A., Lecturer.
F. H. ANDERSON, M.A., Ph.D., Professor and Head of the Department of Philosophy, University of Toronto.
O. L. LACEY, B.A., Ph.D., Professor and Chairman of the Department of Psychology, University of Alabama.
F. B. PRICE, M.A., Ph.D., Assistant Professor of Psychology, Cornell University.
W. H. WRIGHTON, M.A., D.D., LL.D., late Professor and Head of the Department of Philosophy, University of Georgia.

Department of Physics

A. M. CROOKER, M.A., Ph.D., Professor.
K. C. MANN, O.B.E., B.A., Ph.D., Professor.
G. M. VOLKOFF, M.B.E., M.A., Ph.D., D.Sc., Professor.
O. Blüh, Ph.D., Lecturer.
R. K. BROWN, B.A., Lecturer.

Department of Poultry Husbandry

E. A. LLOYD, M.S.A., Professor and Head of the Department.
J. BIELY, M.S.A., M.S., Associate Professor.

Department of Spanish

A. MATTOS, A.M., Assistant Professor.
A. COESTER, M.A., Ph.D., Emeritus Professor of Spanish-American Literature, Stanford University.

Department of University Extension

MISS D. SOMERSET, A.B., Assistant in Dramatics.
MRS. ELSIE GRAHAM.
T. VIEHMAN, M.A., Little Theatre Association, Tulsa, Oklahoma.
W. A. TOMLINSON, M.A., Ph.D., Professor and Head of the Department of History and Political Science, College of Puget Sound.
Lecturers to be appointed.

Department of Zoology

J. R. ADAMS, M.A., Ph.D., Associate Professor.

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.

Registration must be completed in person at the Registrar's Office. However, those living at a distance from the University are advised to make application for registration by mail in advance.

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."

All fees are due and payable on registration and registration is not complete until all fees have been paid.

The registration fee is not returnable.

A fee of $2.00 for "Late Registration" will be charged all students registering after July 2nd.

For Undergraduates

Registration	$ 3.00
Minimum Class Fee	15.00
Per "Unit"	10.00
Summer Session Association Fee	2.00

For Graduates

Registration—	
For 6 units or less	$ 2.00
For over 6 units	5.00
Class Fees (payable at $10.00 per unit for courses taken)	125.00
Summer Session Association Fee	2.00

For Bachelor of Education

Registration—	
For 6 units or less	$ 2.00
For over 6 units	5.00
Class Fees (payable at $10.00 per unit for courses taken)	150.00
Summer Session Association Fee	2.00

For Auditors

Registration	$ 2.00
For each 3-unit course	15.00
Summer Session Association Fee	2.00

Special Fees

Supplemental Examination, per paper	$ 5.00

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.

Scholarships

The Summer Session Students' Association Scholarship

A scholarship of $40, 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 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.

Courses of Study

N.B. Former numbers of courses are given in parentheses.

Bacteriology

201 (1). *Introductory Bacteriology.* — A course consisting of lectures, demonstrations, and laboratory work.

The history of bacteriology, the place of bacteria in nature, the classification of bacterial forms, methods of culture and isolation, the relation of bacteria to agriculture, to industrial processes, to household and veterinary science, and to public health and sanitation.

References: Henrici, *Biology of Bacteria,* latest edition, Heath; Salle, *Fundamental Principles of Bacteriology,* latest edition, McGraw-Hill.

Prerequisites: Chemistry 100 and Biology 100, the latter of which may be taken concurrently.

Five hours a week and laboratory hours to be arranged. 3 units.

Mr. Freeman.

Biology

10 (1). *Introductory Biology.*—The course is introductory to more advanced work in General Biology, Botany, or Zoology; also to courses closely related to biological science, such as Agriculture, Forestry, Medicine.

The fundamental principles of biology; the interrelations of plants and of animals; life processes; the cell and division of labour; life-histories; relation to environment; dynamic biology.

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

Text-book: MacDougall and Hegner, *The Science of Life,* McGraw-Hill, 1943.

Five hours a week and laboratory hours to be arranged. 3 units.

300 (2a). *Principles of Genetics.*—The fundamentals of genetics; Mendel's Law, applications and modifications; the physical basis of heredity: variations; mutations, natural and induced; the nature of the gene.

Text-book: Sinnott and Dunn, *Principles of Genetics,* McGraw-Hill.

Prerequisite: Biology 100.

Five hours a week and laboratory hours to be arranged. 1½ units.

301 (2b). *Principles of Genetics.*—A continuation of the studies of genetic principles with suggested applications. A lecture and laboratory course. The laboratory work will consist of problems, examination of illustrative material, and experiments with Drosophila.

Five hours a week and laboratory hours to be arranged. 1½ units.

Chemistry

100 (1). *General Chemistry.*—The course comprises a general survey of the whole field of chemistry and is designed on the one hand to provide a thorough groundwork for further study in the sciences and on the other to give an insight into the methods of chemical investigation, the fundamental theories, and some important applications such as are suitable to the needs of a cultural education. Students must reach the required standard in both lecture and laboratory work.

Text-book: Foster and Alyea, *An Introduction to General Chemistry,* Van Nostrand. For the laboratory: Harris and Ure, *Experimental Chemistry for Colleges,* McGraw-Hill.

Eight hours a week and laboratory hours to be arranged. 3 units.

200 (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: Ready, *Elementary Qualitative Analysis,* McGraw-Hill.

References: Hammett, *Solutions of Electrolytes,* McGraw-Hill; Engelder, *Calculations of Qualitative Analysis,* Wiley.

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

Text-book: Pierce and Haenisch, *Quantitative Analysis,* Wiley.

Prerequisite: Chemistry 100.

Five lectures a week and laboratory to be arranged. 3 units.

Mr. Harris.

225 (C). *Organic Chemistry.*—A study of the more important aliphatic and aromatic compounds.

Text-book: Lowy-Harrow, *An Introduction to Organic Chemistry,* Wiley.

Eight hours a week and laboratory to be arranged. 3 units.

300. (3) *Organic Chemistry.*—This introduction to the study of the compounds of carbon will include the methods of preparation and a description of the more important groups of compounds in both the aliphatic and the aromatic series.

Chemistry 300 will be given only to those students who have had the equivalent of Chemistry 200.

References: Conant, *The Chemistry of Organic Compounds,* Macmillan; Desha, *Organic Chemistry,* McGraw-Hill; Lucas, *Organic Chemistry,* American Book Co.; Richter, *Organic Chemistry,* Wiley; Gatterman-Wielands, *Laboratory Methods of Organic Chemistry,* Macmillan.

Eight lectures and three laboratory periods a week. 3 units.

Mr. Clark.

304 (4a). *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: Gucker and Meldrum, *Physical Chemistry,* American Book Company.

References; Millard, *Physical Chemistry for Colleges,* McGraw-Hill; Noyes and Sherrill, *Chemical Principles,* Macmillan.

Laboratory text-books: Sherrill, *Laboratory Experiments on Physico-Chemical Principles,* Macmillan; *Handbook of Chemistry and Physics,* Chemical Rubber Company, Cleveland.

Prerequisites: Chemistry 200 (except for students taking Honours in Physics) and Mathematics 202.

Eight lectures and three laboratory periods a week. 3 units.

Mr. Marshall.

Classics

See History 331.

Commerce

Note regarding Commerce courses

Commerce courses are offered in Summer Session of 1947 primarily for veterans and for teachers needing these courses as background for their work. Students are therefore cautioned against choosing these courses on the assumption that Commerce courses will be provided in later Summer Sessions.

261 (6). *Marketing.*—A consideration of methods and channels used for the distribution of consumer and industrial goods, and the merchandising problems of manufacturers and distributors. The course is handled by a discussion of cases taken from actual business. A series of written reports on assigned cases is required as part of the course.

Text-book: Learned, *Problems in Marketing,* McGraw-Hill.

Assigned readings.

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

371 (9). *Business Finance.*—A study of the problems of financing business concerns, including such factors as promotion, types of organization, the provision of long-term and short-term capital, financial statement analysis, involvements, and the public policy towards corporations. As far as possible instruction will be by means of cases taken from actual business.

Prerequisite: Commerce 261.

Text-book: Masson and Stratton, *Problems in Corporation Finance,* McGraw-Hill.

Assigned readings.

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

381 (11). *Industrial Management.*—A study of the organization and management of manufacturing concerns from the standpoint of control of raw materials, plant and equipment, operations, labour, etc. Class discussion will be based on cases taken from actual business. Field work comprising visits to factories and written reports form a part of this course. To qualify for the final examination a student is required to submit 75 per cent. of the written assignments and to take in 75 per cent. of the assigned factory visits.

Text-book: Folts, *Introduction to Industrial Management,* 1940, McGraw-Hill.

Reference: Lansburgh and Spriegel, *Introduction to Industrial Management,* McGraw-Hill.

Ten hours a week. Mr. Jarmain. 3 units

391 (4). *Commercial Law.*—Principles of company law and of the law of contract, agency, bills and notes, sale of goods, etc. The primary purpose of this course is to familiarize the student with the various legal situations that arise in the day to day conduct of a business and with their implications.

Prerequisite or concurrent: Commerce 261.

Ten hours a week. Mr. Curtis. 3 units

486. *Personnel Management and Labour Relations.*—The first part of the course will be devoted to a study of current personnel policies and mechanisms and to their practical application. The second part will cover the field of collective bargaining in industry with the interrelationship of employee, management and government.

Text-book: Scott, Clothier, Mathewson & Spriegel, *Personnel Management,* 1945 Edition, McGraw-Hill.

Prerequisites: Commerce 381, Economics 325.

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

Economics

200 (1). *Principles of Economics.*—An introductory study of the principles of production, value, distribution, money and banking, international exchange, and government finance, and an analysis of the problems of labour and social reform.

Text-book: Logan and Inman, *A Social Approach to Economics,* 1939, University of Toronto.

References: Fairchild, Furniss, and Buck, *Outlines of Economics* (2 vols.), 3rd edition, Macmillan; Garver and Hansen, *Principles of Economics,* 1937, Ginn; *Canada Year Books,* Dominion Bureau of Statistics.

If this course is taken for credit in the Third or the Fourth Year, additional readings will be assigned.

Ten hours a week. 3 units.

300 (4). *Money and Banking.*—The origin and development of money, credit, and banking and the economic functions performed by commercial, savings, trust, and investment banks; the monetary and banking systems of England, Canada, and the other British Dominions, the United States and other important foreign countries; foreign exchange; financial aspects of the trade cycle; the purchasing power of money; the problems of central banking.

Text-book: James, *The Economics of Money, Credit and Banking,* Ronald.

References: Crumb, *Lessons in Money and Banking;* Willis and Beckhart, *Foreign Banking Systems,* Holt; Hayek, *Prices and Production,* Cape; Haberler, *Prosperity and Depression,* Columbia; Keynes, *The General Theory of Employment, Interest and Money,* Macmillan; League of Nations Publications, viz., *World Economic*

Survey, World Production and Prices, Money and Banking (Vols. I and II), *Prosperity and Depression.*

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

315. *American Economic History.*—A survey of the major social and economic factors that have shaped American economic life. Special attention will be given to the European heritage and geographic factors and to the problems raised by the character of the economic evolution of the United States.

Text-book: Bogart, E. L., and Kemmerer, D. L., *Economic History of the American People,* Longmans, Green, 1942.

References: Heaton, H., *A History of Trade and Commerce with Special Reference to Canada,* Nelson; Kirkland, E. C., *A History of American Economic Life,* Crofts, 1941; Shannon, F. A., *America's Economic Growth,* Macmillan, 1940; Wright, C. W., *Economic History of the United States,* McGraw-Hill, 1941.

This course may be taken in lieu of or in addition to Economics 100. It will carry credit in the Third and Fourth Years.

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

335 (12). *Statistics 1.*—Analysis of frequency distributions; the Normal Frequency curve; study of bivariates and multivariates; study of dynamic variability; forecasting.

Text-book: Mills, *Statistical Methods,* Holt.

Five hours a week and laboratory hours to be arranged.

Mr. Drummond. 3 units.

405 (11). *Transportation.*—A comprehensive study of the fundamentals of transportation by land, sea, and air, with the legal and economic problems involved; theory and practice of rate-making; discriminations; factors in public control, etc.

Text-book: Jackman, *Economic Principles of Transportation,* University of Toronto.

Assigned readings.

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

Education

510 (25). *Administration of School Systems.* — Dominion participation in education; the Provincial Department of Education; centralization and decentralization; school finance; the local unit of administration.

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

524. *Modern Educational Theories.*—The course will attempt to show why our traditional educational values are now being subjected to re-examination and re-interpretation. It will emphasize the obligation of education, at every level, to provide for intelligent orientation in a modern, changing world. A number of present day theories and movements will be considered, with special reference to their significance for the concept of democracy as a way of life.

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

531 (31). *Psychology of Childhood.*—The mental, social, emotional, and physical characteristics of pre-school and elementary school pupils; their interests and their problems; implications for organization and administration of school systems.

Text-book: Morgan, *Child Psychology,* (Third Edition), Rinehart.

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

535 (38). *Evaluation.*—The basic principles of evaluation; tests and measuring instruments for the determination of the outcomes of instruction; analyzing the results of evaluation.

Text-book: Remmers and Gage, *Educational Measurement and Evaluation,* Harper.

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

561 (34). *Diagnostic and Remedial Instruction.*—This course is intended to help teachers in their work with seriously retarded pupils. It includes a study of the diagnostic point of view in education, types and causes of subject-matter disabilities, and possible remedies of difficulties. Disabilities in spelling, reading, and arithmetic will be studied chiefly, and over half the course will be devoted to reading. Some opportunity will be given teachers to specialize on primary, intermediate, or secondary school levels of work.

Text-book: Fernold, *Remedial Techniques in Basic School Subjects,* McGraw-Hill.

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

English

100 (1a). *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: Larsen and MacDonald (eds.), *A Century of Short Stories, 1824-1927,* Macmillan; Euripides, *Bacchae,* in Gilbert

Murray's paraphrase, Allen and Unwin; Shakspere, *Julius Caesar;* Sheridan, *The School for Scandal,* Everyman; Ibsen, *A Doll's House,* Everyman; Dilworth (ed.), *Twentieth Century Verse,* Clarke, Irwin.

101 (1b). *Composition.* — Elementary forms and principles of composition.

Text-book: Foerster and Steadman, *Writing and Thinking,* new edition, Houghton Mifflin.

The work in composition consists (i) of themes and class exercises, and (ii) of written examinations. Students will be required to make a passing mark in each of these two parts of the work.

Ten hours a week. 3 units.

Messrs. Miller, Hughes and Steinberg.

200 (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.

Text-book: *College Survey of English Literature,* Harcourt, Brace.

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

411 (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; *The Chief Elizabethan Dramatists,* ed. Neilson, Houghton Mifflin; *Shakespeare,* Shakespeare Head Press, or the *New Cambridge Shakespeare,* ed. Neilson and Hill, Houghton Mifflin.

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

421, 422. *Theatre.*—In the Summer Session this course is offered in conjunction with the Summer School of the Theatre. It deals with both the theory and the practice of the modern theatre: (1) Historical backgrounds; (2) Styles of production; (3) Acting fundamentals—participation in a play; (4) Speech A—fundamentals

of voice production; (5) Speech B—advanced training; (6) Directing; (7) Stagecrafts.

Acting and Speech A, or historical backgrounds and styles of production, constitute the basic courses. Students having a recognized equivalent in any of these subjects and wishing to substitute another subject must apply for permission to the director of the School. Participation in the production and staging of a play is required.

Fifteen lectures and fifteen hours rehearsal and laboratory a week. Extra rehearsals as arranged.

3 units, available either for 421 or 422.

Miss Somerset, Mr. Viehman and staff.

Lectures: See Summer School of the Theatre schedule.

426 (14). *Eighteenth Century Literature.*—This course aims to give a view, as comprehensive as possible, of the main currents of English thought and literature during the period 1660-1800. It is concerned mainly with the work of such men as Dryden, Pope, Swift, Addison, Steele, Johnson, Goldsmith, Burke, and Burns.

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

433 (19). *Contemporary Literature.*—Some tendencies of English literature of the present generation, in poetry and the essay and the novel, will be studied in this course.

Texts: Noyes, *Readings in the Modern Essay,* Houghton Mifflin; Sanders and Nelson, *Chief Modern Poets of England and America,* Macmillan; novels to be assigned.

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

See also Spanish 400.

French

101 (1). Texts: *Types of the French Short Story,* Ronald; Beaumarchais, *Le Barbier de Séville,* Larousse; Barton and Sirich, *New French Review Grammar and Composition,* Crofts.

Prerequisite: University Entrance French or its equivalent.

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

202 (2). Texts: Balzac, *Le Père Goriot,* Larousse; *Anatole France,* Nelson. Independent reading to include Balzac, *Eugénie Grandet;* and Louis Hémon, *Maria Chapdelaine,* Fayard.

Composition in French based on the above readings, and from Ratner and Sorkin, *French Review Grammar,* Gage.

Prerequisite: French 1 or its equivalent.

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

300 (3a). *The Literature of the Age of Louis XIV.*—Lectures on the history and social conditions of the period, and on the development of the literature. Careful reading and discussion of the following texts: Schinz and King, *Seventeenth Century French Readings,* Holt; Corneille, *Le Cid,* Didier, or *Polyeucte,* Didier; Racine, *Iphigénie,* American Book Co., or *Andromaque,* Didier, or *Phèdre,* Heath; Molière, *Le Misanthrope,* Didier, or *Les Femmes Savantes,* Didier, or *L'Avare,* Manchester University; *Le Tartuffe,* Didier.

Conversation and written résumés based on the above.

This course is obligatory for all students taking Third Year French. French 202 is a prerequisite. Students who cannot write French with some facility are advised not to attempt French 300.

Students who intend to take French throughout the four years or who wish to teach this subject should take also French 302.

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

Geography

101 (1). *Elementary Physical Geography.*—This introductory course aims to furnish a foundation for the study of geography. It will be useful not only to those who may intend to continue a study of geography or to teach it in schools, but to all those who are interested in man's physical environment and its effects on his principal occupations. This course covers the study of land forms, processes of weathering, erosion, diastrophism, materials of the earth's crust, climate, and history of the earth. The laboratory part of the course includes elementary surveying and map making, interpretation of topographic maps, making of relief models, the study of common minerals, rocks, and fossils.

References: Wilmore, *Groundwork of Modern Geography,* Bell; Finch and Trewartha, *Elements of Geography,* McGraw-Hill; Moore, *Elementary Geology for Canada,* Dent.

Six hours a week and laboratory hours to be arranged. 3 units.

Mr. Cumming.

306 (6). *Economic Aspects of World Geography.*—An introduction to economic geography. Geographic basis of food supply, energy, natural resources, population, transportation, and trade. This course is intended to give a background for those interested in international and national affairs.

Text-books: Klimm, Starkey, and Hall, *Introductory Economic Geography,* 2nd edition, Harcourt-Brace; Stamp, *An Intermediate Commercial Geography,* Part 1, *Commodities and World Trade,*

Longmans. An atlas is a requisite; *Modern School Atlas,* Appleton-Century, is recommended.

Six hours a week and seminars and laboratory hours to be arranged. Mr. Warren. 3 units.

German

90. *Beginners' Course.* — Greenfield, *An Outline of German Grammar,* Barnes & Noble; Hagboldt, *Elementary Alternate Series,* Heath-Chicago.

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

100. Texts: Chiles, *German Composition and Conversation,* Part I, Ginn; Müller-Partenkirchen, *Kaum genügend,* Holt; Kästner, *Drei Münner im Schnee,* Crofts; Bruns, *Book of German Lyrics,* Heath.

Prerequisite: University Entrance or Beginners' German.

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

101 (1b). *Scientific German.*—An introduction to the reading of scientific German, supplemented by a review of essentials in German grammar and composition.

Text-books: Wild, *An Introduction to Scientific German,* Oxford; Wild, *An Anthology of Scientific German,* Oxford; Chiles, *German Composition and Conversation,* Part I, Ginn.

Prerequisite: University Entrance or Beginners' German.

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

200 (2). Texts: Chiles, *German Composition and Conversation,* Part II, Ginn; Diamond and Schomaker, *Lust und Leid,* Holt; Heine, *Die Harzreise,* Holt; Huch, *Der letzte Sommer,* Farrar and Rinehart; Bruns, *Book of German Lyrics,* Heath.

Prerequisite: German 100 or 101 or the equivalent.

Ten hours a week. Miss MacInnes. 3 units.

Government

300 (1). *Constitutional Government.*—This course deals with the nature, origin, and aims of the State; and with the organization of government in the United Kingdom and in the United States of America.

Text-books: Ogg, *English Government and Politics,* Macmillan; Ogg and Ray, *Introduction to American Government,* Appleton-Century.

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

History

101 (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 First World War, The First 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, Britain and France between the Wars, The New Balkans, The Little Entente and Poland, Nationalism and Imperialism in the Far East, The United States and World Peace, The Road to the Second World War.

Text-books: Benns, *Europe Since 1914,* Crofts, or Chambers, Grant, and Bayley, *The Age of Conflict,* Harcourt, Brace; Schmitt, *Triple Alliance and Triple Entente,* Oxford; Carr, *Conditions of Peace,* Macmillan (for upper year credit).

Essays will be assigned throughout the session. (Extra work will be required from Third and Fourth Year students taking this course.)

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

202 (2). *The History of Canada.*—Geographical factors, exploration and early settlements; the French Régime; constitutional development, 1759-1867; economic and social progress to Confederation; development of the Dominion of Canada since 1867; Canada in the Commonwealth; Canada in the world.

Text-books: Wittke, *A History of Canada,* McClelland and Stewart; Wrong, *The Canadians,* Macmillan; Creighton, *Dominion of the North,* Houghton Mifflin; Sage, *Canada from Sea to Sea,* University of Toronto; Currie, *Canadian Economic Development,* Nelson; *Report of the Royal Commission on Dominion-Provincial Relations, Book I, Canada, 1867-1939,* King's Printer. Ottawa.

Essays will be assigned throughout the session. (Extra work will be required from Third and Fourth Year students taking this course.)

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

312 (12). *History of the United States of America.*—This course begins with a sketch of the American colonies at the outbreak of the Revolution and traces the history of the United States from the commencement of the War of Independence to the outbreak of the Second World War.

Text-book: Faulkner, *American Political and Social History,* Crofts.

Essays will be assigned throughout the session.

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

331. *Ancient History.*—A survey of ancient Greek and Roman historical development, including the background and the rise of Greek civilization, with special attention to the social and political life in the fifth century city states; Hellenistic civilization, with special emphasis on its contribution to Graeco-Roman culture; and the growth of Rome and the development of its political institutions. Essays on selected topics will be assigned.

Knowledge of Greek and Latin is not required for this course.

References: Trever, *History of Ancient Civilization* (2 vols.), Harcourt-Brace; Botsford and Robinson, *Hellenic History,* Macmillan; Laistner, *Greek History,* Heath; Cary, *A History of the Greek World from 323 to 146 B.C.,* Methuen; Cary, *A History of Rome Down to the Reign of Constantine,* Macmillan; Wells and Barrow, *A Short History of the Roman Empire,* Methuen; Parker, *A History of the Roman World from A.D. 138 to 337,* Methuen.

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

See also Workshop in International Relations (inside front cover).

Home Economics

100 (1). *Foods and Nutrition.*—Lectures are devoted to a study of human nutrition with emphasis on the requirements of the normal adult. The preparation of various types of food is presented from the experimental viewpoint in the laboratory hours.

Text-book: Chaney and Ahlborn, *Nutrition,* 3rd edition, Houghton Mifflin.

Prerequisite: Home Economics 90 or equivalent.

200 (3). *Clothing.*—Development of foundation patterns. Flat pattern designing. Consumer problems in relation to ready-to-wear.

Text-book Latzke and Quinlan, *Clothing,* Lippincott.

Prerequisite: Home Economics 91 or equivalent.

For the two courses: Five hours a week and laboratory to be arranged. Misses Newcombe and Rose. 3 units.

Mathematics

100 (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: Currier, Watson, Frame, *General Mathematics,* Macmillan; Hedrick, *Logarithmic and Trigonometric Tables,* revised edition, Macmillan.

Ten hours a week. Messrs. Duncan, Free and Straight. 3 units.

201 (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.

Prerequisite: Mathematics 100 (1).

Ten hours a week. Miss Jenkinson, Mr. Simons. 3 units.

202. *Calculus.*—Introduction to differential and integral calculus, with applications.

In 1947-48 and subsequent years this course will be prerequisite to Mathematics 300, 301, and 302.

Text-book: Miller, *Calculus,* Wiley.

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

302 (12). *Differential Equations.*—An introductory course, with applications to geometry, mechanics, physics, and chemistry.

Text-book: Morris and Brown, *Differential Equations,* (Revised), Prentice-Hall.

Prerequisite: Mathematics 300.

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

Philosophy

100 (1). *Introduction to Philosophy.*—An introductory study of the questions raised by major philosophers who have contributed to the background of present-day thought. This study will be based on a reading of selected primary sources, and it will aim at obtaining perspective on contemporary scientific, literary, social, and religious issues.

Text-books: Plato, *The Republic,* Scribners; Randall, Buckler, and Shirk, *Readings in Philosophy,* Barnes and Noble; Whitehead, *Adventures of Ideas,* Pelican.

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

200 (2). *Ancient and Mediaeval Philosophy.* — Western philosophic thought from Thales to St. Augustine, with the principal stress on the works of Plato and Aristotle.

Text-books: To be announced.

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

302 (6). *Ethics.*—The development of ethical thought within the history of civilization. The historical approach will be followed by a systematic discussion of the fundamental problems of ethics.

Text-books: Lippmann, *Preface to Morals,* Macmillan; Clark and Smith, *Readings in Ethics,* Dodd, Mead.

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

Physics

100 (1). *Elementary Physics.* — A study of general college physics suitable for those students who have obtained credit for University Entrance Physics A 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.

Reference: Smith, *Elements of Physics,* McGraw-Hill.

Special arrangements involving additional work will be made for students who have not taken Physics 90 or University Entrance Physics A as a prerequisite.

Ten hours lectures and eight hours laboratory a week. Messrs. Mann and Volkoff. 3 units.

200 (4). *Mechanics, Molecular Physics, and Heat.*—A study of statics and dynamics of both a particle and a rigid body, the laws of gases, molecular theory, temperature, calorimetry, radiation laws, and elementary thermodynamics.

Text-books: Reynolds, *Elementary Mechanics,* Prentice-Hall; Allen and Maxwell, *Text-book of Heat,* Macmillan.

Prerequisite: Physics 100.

Ten hours lectures and laboratory hours to be arranged. Mr. Crooker. 3 units.

220 (2). *General Physics.*—This course in general physics is offered primarily for those students who intend to proceed to a medical course. The course is also suitable for those students who plan to major in the humanities and desire a second course in physics. Concurrent with a more advanced study of general physics, special emphasis is placed upon those topics which are most important in medicine.

Candidates for Honours in Physics receive no credit for this course.

References: Robertson, *Radiology Physics,* Van Nostrand; Stuhlman, *Introduction to Biophysics,* Wiley.

Prerequisite: Physics 100.

Ten hours lectures and laboratory hours to be arranged. Mr. Blüh. 3 units.

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

Text-book: Loeb, *Fundamentals of Electricity and Magnetism,* 2nd ed., Wiley.

Prerequisite: Physics 100.

Ten hours lectures and laboratory hours to be arranged. Mr. Brown. 3 units.

Psychology

101 (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.

Text-book: Dashiell, *Fundamentals of General Psychology,* Houghton Mifflin.

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

200 (2). *Experimental Psychology.*—Experimental methods applied to human behaviour; the performance of individual and group experiments; basic principles of psychological measurement. Open to Third and Fourth Year students by permission of the instructor.

Text-books: To be announced.

References: Bills, *Experimental Psychology,* Longmans; Boring, *Sensation and Perception in the History of Experimental Psychology,* Appleton-Century; Murchison, ed., *The Foundations of Experimental Psychology,* Clark University.

Eight hours a week and laboratory hours to be arranged. 3 units. Mr. Belyea.

202 (4). *Psychology of Adjustment.*—Origins and modification of behaviour, motivation, varieties of adjustive behaviour, personality, mental hygiene, guidance.

Text-book: Shaffer, *The Psychology of Adjustment,* Houghton Mifflin.

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

Sociology

430 (4). *Social Problems and Social Policy.*—A detailed study of significant modern Canadian social problems, together with a statement and evaluation of the more promising suggested solutions for these problems. Emphasis will be placed on problems of child welfare, delinquency, domestic discord, community disorganizations and other manifestations of social pathology with which educators and social workers must deal.

Readings to be assigned.

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

Spanish

90. *Beginners' Course.*—Grammar, composition, translation, conversation.

Students taking this course are urged to participate in the *Casa Española.*

Texts: To be announced.

Ten hours a week. 3 units.

101 (1). Review of grammar; composition, translation, conversation.

Texts: Adams, *Brief Spanish Review Grammar and Composition,* Holt; Ramos Carrión and Vital Aza, *Zaragüeta,* Heath; Arjona, *Siglo de Aventuras,* Macmillan; Camba, *La Rana Viajera,* Heath; Kasten & Neale-Silva, *Lecturas Escogidas,* Harper.

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

400. *Spanish-American Literature.*—After a study of the general outlines of Latin American history, topography, and climate, as well as of the nature of the books written by Latin Americans in Spanish, each country will be discussed in detail, with emphasis on the factors which differentiate the literature of one country from another. Through assigned reading, either in Spanish or English, the student will be guided to the discovery of these characteristics.

A knowledge of Spanish is not necessary for this course. The course will also carry credit in the Third and Fourth Years as a course in English.

Readings to be assigned.

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

Zoology

200 (1). *General Zoology.*—A course on the structure, classification, life histories, and biology of animals.

This course is prerequisite to other courses in Zoology.

Text-book: Storer, *General Zoology,* McGraw-Hill.

References: Hegner, *College Zoology,* Macmillan; Buchsbaum, *Animals Without Backbones,* University of Chicago; Romer, *Man and the Vertebrates,* University of Chicago.

Eight hours a week and laboratory hours to be arranged.

Mr. Adams. 3 units.

Agriculture

Agricultural Economics

301 (1). *Agricultural Economics.*—The principles of economics as applied to agriculture; historical background, the main problems of agriculture, and some special topics, such as production in relation to population growth, farm tenancy, rural credits, prices of farm products, and the share of agriculture in the national income.

References and assigned readings from Taylor, Carver, Nourse, Gray, Black, and others.

Ten hours a week. Mr. Clement and Mr. Woodward. 3 units.

Poultry Husbandry

200 (12a). *Fundamentals of Poultry Husbandry.*—Feeds, feeding management, poultry housing, sanitation, hygiene, and diseases.

References: Lippincott and Card, *Poultry Production,* sixth edition, 1939, Lea and Febiger; Winter and Funk, *Poultry Science and Practice,* Lippincott. 1½ units.

201 (12b). *Fundamentals of Poultry Husbandry.*—Breeds, breeding, judging, selection, culling, incubation, brooding, egg grading, marketing, general management.

References: *American Standard of Perfection,* 1942-1944; Lippincott and Card, *Poultry Production,* sixth edition, 1939, Lea and Febiger; Jull, *Poultry Husbandry,* McGraw-Hill.

For the two courses: Five hours a week and laboratory to be arranged. Mr. Lloyd and Mr. Biely. 1½ units.

SUMMER SESSION, 1946

Registration

Faculty of Arts and Science

First Year	663	
First Year Home Economics	5	
Second Year	577	
Second Year Commerce	117	
Second Year Home Economics	13	
Third Year	317	
Third Year Commerce	97	
Third Year Home Economics	6	
Fourth Year	162	
Fourth Year Commerce	70	
Fourth Year Home Economics	1	
Graduates	186	
		2214

Faculty of Applied Science

Second Year	56	
Third Year	5	
Fourth Year	1	
Graduates	6	
		68

Faculty of Agriculture

First Year	20	
Second Year	31	
Third Year	20	
Fourth Year	6	
Graduates	6	
Occupational	3	
		86
Total		2368

Not Included in Above

Auditors	13

CASA ESPAÑOLA
(Spanish House)

If the enrolment justifies it, the University will set aside living quarters for the Summer Session to be used as a *Casa Española* (Spanish House), which will be a residence for students interested in speaking Spanish and in other aspects of Hispanic civilization.

Under supervision there will be periods for *Charlas* (Conversation), *Horas del Canto* (Song Hours), *Fiestas* (Spanish Parties) and *Conferencias sobre la América Latina* (Lectures on Latin America) and a *Mesa Española* (Spanish Table).

In making application for residence students agree to make Spanish the language of the *Casa*. Special attention will be devoted to the needs of beginners. Attention is invited to the courses in Spanish, which are co-ordinated with the *Casa*. Preference will be given to applications of those enrolling for one or more courses in Spanish.

The fee for *Casa* activities will be $5.00. In addition there will be the usual charge for meals or for room and board, if required.

As accommodations will be limited, application should be made at once by addressing *Casa Española*, c/o Department of Spanish, University of British Columbia, Vancouver, B. C., enclosing $5.00 for reservation deposit.

DIRECTED READING COURSES
1947-48

History 304 [4]. *Mediaeval Europe, 500-1300.*—A general outline of mediaeval history from the fall of the Roman Empire to the 13th century. Sketches of Byzantine history and of the rise of Islam are included, but the main emphasis is laid upon the culture of the 12th and 13th centuries in the West.

Text-books: Stephenson, *Mediaeval History*, revised edition, Harpers; Strayer and Munro, *The Middle Ages.*

A Third Year course open to Second Year students.

Miss Ormsby. 3 units.

English 425. *The Age of Milton.*—The first term will be devoted to a study of Milton, with particular emphasis upon *Paradise Lost* and its significance in the 20th century. In the second term certain themes, chosen from the following list according to the particular needs of the class, will be traced throughout the 17th century:—the poetry of John Donne and his followers; the Cavalier and libertine spirit; Puritanism and literature; Anglicans and mystics; the Royal Society and the new experimental science; Baroque form; religious toleration and political liberty.

Texts: *Complete Poetry and Selected Prose of John Milton* (Modern Library); *Seventeenth Century Prose and Poetry*, ed. Coffin and Witherspoon, (Harcourt Brace).

Mr. Daniells. 3 units.

DORMITORY ACCOMMODATION

Adequate dormitory accommodation will be available for all Summer Session students, both men and women, who wish board and lodging in either Acadia or the Fort Camp. The rate will be sixty-eight dollars ($68.00) for the Summer Session period. Further information and application forms may be obtained from the Department of University Extension.

REDUCED FARE FOR STUDENTS AND INSTRUCTORS ATTENDING SUMMER SESSION

Railway companies offer a reduction in fare from stations in Canada for Summer Session students, instructors, and their families. Students should purchase a regular one-way first-class ticket and *secure at that time* a Standard Convention Certificate. This ticket must be purchased between June 28th and July 4th, inclusive. If presented to the Ticket Agent not later than August 20th, the certificate, when signed by the Registrar, entitles the holder to purchase a return ticket at one-third of the one-way fare. Tickets permit stop-overs and are limited to thirty days from official closing date.

EXTENSION DEPARTMENT SHORT COURSES

SUMMER SCHOOL OF THE THEATRE: Courses in dramatics that are available to University undergraduates seeking credits in their junior and senior years, as well as to actors, directors and teachers who are not University undergraduates but who desire training and experience in the Theatre. Directors of the School: Theodore Viehman, Dorothy Somerset, and staff of instructors.

CREATIVE WRITING: A four weeks' workshop course in creative writing with emphasis on the short story and on dramatic writing, conducted by Philip Freund, well-known American novelist, playwright, film and television writer, and critic.

PAINTING FOR PLEASURE: A series of sketching parties on and near the University campus lasting for five weeks, under the guidance of the well-known Canadian artist Mr. B. C. Binning.

THE ART OF PHOTOGRAPHY: A series of ten photographing expeditions, combined with lectures, dealing with the technique and art of pictorial and commercial photography. Instructor: Mr. A. George Bulhak.

WEAVING: A two weeks' course for beginners.

SHORT COURSE FOR HIGH SCHOOL TEACHERS IN DRIVER EDUCATION AND TRAINING—August 16th—20th: This short course for High School teachers will be given at the Youth Training Centre, Acadia Camp, by Professor Amos E. Neyhart, Administrative Head, Institute of Public Safety, Pennsylvania State College, and Road Training Consultant, American Automobile Association. The course is designed to aid teachers in carrying out a driving education and instruction programme within the school. Registration is limited to fifty and it may not be possible to accept more than one application from a school.

Further information concerning any of these courses may be obtained from the Department of University Extension.

DORMITORY ACCOMMODATION

Adequate dormitory accommodation at reasonable rates will be available for all Summer Session students, both men and women, who wish board and lodging, in either Acadia or the Fort Camp. Further information and application forms may be obtained from the office of the Housing Administrator.