PUBLICATIONS OF THE UNIVERSITY OF BRITISH COLUMBIA

The University of British Columbia

ANNOUNCEMENT
OF
THE SUMMER SESSION

SUPPLEMENT
TO
CALENDAR 1947-48

TWENTY-NINTH SESSION
JULY 5TH TO AUGUST 20TH, 1948

VANCOUVER, BRITISH COLUMBIA

VOL. 33 GENERAL SERIES No. 3

The University of British Columbia
SUMMER SESSION, 1948

DATES

July		
5th	Monday	*Last day for registration of all students. Lectures begin at 8.00 a.m.
6th	Tuesday	Supplemental and Directed Reading Course Examinations.
9th	Friday	General meeting of students.
9th	Friday	Last day for changes in students' courses Last day for payment of fees.
August		
5th	Thursday	General meeting of students.
18th	Wednesday	Last day of lectures.
19th	Thursday	Final Examinations.
20th	Friday	

*The last day for registration is July 5th—the first day of lectures. A fee of $2.00 will be charged all students registering after this date.

Special Lectures

Arrangements have been made for a series of four or five special lectures of general interest to the students of the Summer Session. Dates and times of these lectures will be announced later. The following lectures have already been arranged.

Dr. W. E. Blatz ..... "The Younger Generation."
Dr. G. G. Sedgewick ..... "The Teaching of Poetry."
Mr. Jasper Stembridge ..... "The Field and Function of Modern Geography."
Dr. S. R. Tompkins ..... "Russian Isolationism."

Time Table of Lectures

Monday to Friday Inclusive

Subject	*Room*	*Subject*	*Room*
8-10 a.m.		**8-10 a.m.**	
Chemistry 200	Sc. 300	French 202	A. 103
Economics 200	Hut B2	History 419	Hut A5
Economics 310	A. 106	Psychology 100	Ag. 100
Education 512 (8 a.m.)	Hut A4	Psychology 301	A. 100
Education 560 (9 a.m.)	Hut A4	Social Work 505/506	Hut B3
Education 582 (9 a.m.)	A. 105	Mathematics 100	A. 206
English 428	A. 101	Mathematics 202	A. 204
French 101	A. 104	Mathematics 300	A. 203
10 a.m.-12 noon		**10 a.m.-12 noon**	
Bacteriology 201	Sc. 400	Government 330	Hut A6
Chemistry 100	Sc. 200	History 429	Hut A5
Chemistry 225	Sc. 300	Mathematics 201	A. 206
Chemistry 300	Sc. 213	Philosophy 400	A. 208
Economics 410	A. 204	Physics 100	P. 201
Education 530	Hut A4	Physics 200	P. 302
English 100/101	A. 106	Slavonic Studies 100	A. 104
English 200	Ag. 100	Social Work 565	Hut B4
English 432	A. 103	Spanish 90	A. 108
Geography 101	Ap. 101	Spanish 201	A. 105
Geography 303	Ap. 102		
1.15-3.15 p.m.		**1:15-3:15 p.m.**	
Agronomy 211	Ag. 102	German 100	A. 105
Biology 100	Ap. 101	History 202	Hut B5
Biology 304	Ap. 102	History 420	Hut A6
Economics 300	A. 203	Music 305	A. 100
Education 532 (1:15-2:15)	Hut B3	Philosophy 205	A. 101
Education 533 (2:15-3:15)	Hut B3	Sociology 426	Hut B4
English 411	A. 108	Spanish 410	Hut B2
German 90	A. 208	Zoology 200	A. 201

The University of British Columbia

SUMMER SESSION, 1948

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.

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

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

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

F. T. TYLER, B.Sc., M.A., M.Ed., Ph.D., Assistant Director.

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

A. MACLUCAS, Bursar.

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

Department of Agronomy

D. G. LAIRD, B.S.A., M.S., Ph.D., Professor of Soils.

Department of Bacteriology and Preventive Medicine

Lecturer to be announced.

Department of Biology and Botany

JOHN ALLARDYCE, M.A., Ph.D., Professor.

R. W. PILLSBURY, M.A., Assistant Professor.

Department of Chemistry

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

H. L. HOLMES, M.Sc., A.M., Ph.D., Associate Professor.

M. STUSIAK, M.A.Sc., Assistant Professor.

Lecturer to be announced.

Department of Economics, Political Science and Sociology

JEAN C. FALARDEAU, Diplomé de l'Université de Laval, Professor, Laval University.

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

Lecturers to be appointed.

Department of Education

K. F. ARGUE, B.A., M.A., D.Ed., Professor.

J. M. EWING, B.A., D.Paed., Principal of Victoria College, Professor of Philosophy and Psychology.

C. I. TAYLOR, B.A., B.Ed., Inspector of Schools, Kimberley, B. C.

F. T. TYLER, B.Sc., M.A., M.Ed., Ph.D., Professor of Education and Psychology.

MISS L. E. TYLER, M.S., Ph.D., Associate Professor of Psychology, University of Oregon.

Department of English

G. P. V. AKRIGG, M.A., Ph.D., Associate Professor.

J. D. GRANT, M.A., Ph.D., Assistant Professor.

H. HUGHES, M.A., Assistant Professor.

T. LARSEN, M.A., B.A. (Oxon.), F.R.S.C., Professor.

R. E. WATTERS, M.A., Ph.D., Associate Professor.

Department of French

J. A. HOOD, B.A., Lecturer.

L. J. PRONGER, B.A., Lecturer.

Department of Geology and Geography

V. J. OKULITCH, M.A.Sc., Ph.D., F.G.S.A., F.R.S.C., Associate Professor.

JASPER STEMBRIDGE, Geographical Editor of Oxford University Press. Formerly H.M. Inspector of Schools. Visiting Professor of Geography, 1947-48.

Department of German

MISS ISABEL MACINNES, M.A., Ph.D., Professor and Head of the Department.

MISS MARGARET MILLER, B.A., A.M., Lecturer.

Department of History

D. C. MASTERS, M.A. (Oxon.), Professor and Head of the Department of History, Bishop's University.

G. F. G. STANLEY, B.A., M.A., B.Litt., D.Phil., F.R.Hist.S., Professor of Canadian History.

S. R. TOMPKINS, M.A., Ph.D., Professor of History, University of Oklahoma.

Lecturer to be appointed.

Department of Mathematics

D. DERRY, M.A., Dr.Phil., Associate Professor.

J. R. F. KENT, M.A. Ph.D., Assistant Professor.

B. N. MOYLS, M.A., Ph.D., Lecturer.

W. H. SIMONS, M.A., Lecturer.

Department of Music

MRS. IDA HALPERN, Ph.D., Mus.D., Instructor.

Department of Philosophy and Psychology

W. E. BLATZ, M.A., M.D., Ph.D., Professor of Child Study, University of Toronto; Director of Windy Ridge Day School; Consultant, Toronto Family Court.

EDMUND MACDONALD, B.A., Lecturer.

D. C. G. MACKAY, B.A., Ph.D., Assistant Professor of Psychology.

RANSOM PATRICK, A.M., Ph.D., Associate Professor of Philosophy, Oberlin College.

Department of Physics

Lecturers to be announced.

Department of Slavonic Studies

J. O. ST. CLAIR-SOBELL, M.A., Ph.D., Professor and Head of the Department.

Department of Social Work

ROGER MARIER, B.A., M.S.S., M.S., Assistant Director, School of Social Work, Laval University.

MISS GORDON HAMILTON, B.A., M.A., Columbia University.

Department of Spanish

AURELIO M. ESPINOSA, A.B., A.M., Ph.D., Litt.D., LL.D., Emeritus Professor of Romanic Languages, Stanford University.

J. A. MACDONALD, B.A., M.A., Assistant Professor.

G. E. MCSPADDEN, M.A., Ph.D., Associate Professor.

Department of University Extension

MISS D. SOMERSET, A.B., Assistant Professor of Dramatics.

PHILIP FREUND, Instructor of Creative Writing, Hunter College, City College of New York City.

T. VIEHMAN, M.A., Tulsa Little Theatre, Tulsa, Oklahoma.

Instructors:

MR. B. C. BINNING (Painting); MR. A. G. BULHAK, (Photography); MISS JOY COGHILL, B.A. A.T.C.L., (Dramatics); MR. R. F. CORRIGAN, M.A., (Dramatics); MRS. W. S. ELLIS, (Weaving); MRS. JESSIE RICHARDSON, (Dramatics); MR. SYDNEY RISK, M.A., (Dramatics); MISS JESSIE STEWART, (Weaving).

Department of Zoology

C. W. ARGUE, O.B.E., B.S.A., B.A., M.Sc., D.Sc., Dean of the Faculty of Arts, Professor and Head of the Department of Zoology, University of New Brunswick.

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.

Those living at a distance from the University are advised to make application for registration by mail in advance.

Registration must be completed in person at the University on one of the following days:

Friday, July 2nd, 9 a.m. to 4 p.m.

Saturday, July 3rd, 9 a.m. to 12 noon.

Monday, July 5th, 9 a.m. to 4 p.m.

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 5th.

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 $75, 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 $100 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.

The Summer Session Students' Association Scholarship Fund

The annual income from the Summer Session Students' Association Scholarship Fund, or the sum of $75, whichever is less, will be paid annually as a scholarship for study at the University of British Columbia. The Scholarship is open to any Summer Session Student who has completed the first two years' work, the second of which has been taken wholly by Summer Session, Extra-sessional Classes or Reading Courses, and who is proceeding to a higher year in the University of British Columbia by means of Summer Session. This award will be made to the student who completes in that session the Second Year of his University work with the *second* highest standing. Only those students who have taken a full course of six units in each Summer Session will be considered eligible for this scholarship. The work of the Second Year must be completed in a maximum of four summer sessions.

The Summer Session Students' Association Loan Fund

The Summer Session Students' Association of 1947 established a loan fund as a trust to be used for loans to teachers ('teachers' as defined by the Public Schools Act of British Columbia) who have attained satisfactory academic standing. Loans from this fund are to be repaid within three years from the date of receipt of the loan and until the expiration of the three-year period no interest will be charged. Loans, which may be repaid at any time during the three year period by assigned instalments, will be granted on the basis of scholarship and financial need, assistance to any one student being limited according to the funds available. Loans will be made on the recommendation of the Joint Faculty Committee and representatives of the Summer Session Students' Association.

Courses of Study

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

Agronomy

211 [11]. *An Introduction to the Study of Soils.*—Physical, chemical, and biological agencies of weathering; the mechanical constitution of a soil—organic matter, mineral fraction, water and air; the living phase of a soil. Soil development and classification.

Different systems of cultivation and manuring and their relation to environment. Nutrient levels and moisture relations; soil reaction and liming; use of farm and green manures; commercial fertilizers and their use. Special consideration is given to the soils of British Columbia.

References: Lyon and Buckman, *Nature and Properties of Soils,* latest edition; Millar and Turk, *Fundamentals of Soil Science,* latest edition; Collings, *Commercial Fertilisers, Their Sources and Uses,* latest edition.

Students will find Chemistry 100 helpful.

Nine hours lectures and nine hours laboratory a week. 3 units.

Mr. Laird.

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.

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

Lecturer to be announced.

Biology

100 [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, Nursing, Pharmacy, Fisheries, Home Economics.

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: Marsland and Plunkett, *Principles of Modern Biology,* Holt.

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

Mr. Pillsbury.

304 *Basic Physiology.*—An elementary study of the physiology of the mammalian body.

The course may be taken by students of Home Economics, Physical Education, and Psychology. Pre-medical, Pre-dental and Honours students in the Biological sciences taking Physiology are directed to take Biology 400. A student may not receive credit for Biology 304 and Biology 400.

Text-book: Carlson and Johnson, *The Machinery of the Body.* Revised edition (1941), University of Chicago Press.

Prerequisites: Biology 100, Chemistry 100. The Department to be consulted.

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

Mr. Allardyce.

Chemistry

100 [1]. *General Chemistry.*—A study of inorganic chemistry against a background of theory. Chemical arithmetic, the Periodic Table, and the fundamental theories will be stressed. 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.

Mr. Stusiak.

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. Reedy, *Theoretical 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: Booth and Damerell, *Quantitative Analysis,* McGraw-Hill.

Reference: Pierce and Haenich, *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 carbon compounds with especial emphasis upon the compounds to be dealt with later in courses on food-stuffs, nutrition, and textile fibres.

Prerequisite: Chemistry 100.

Open only to students taking Home Economics.

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

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

Lecturer to be announced.

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 Chemistry 200 or its equivalent.

References: Conant, *The Chemistry of Organic Compounds,* Macmillan; Wertheim, *Text-book of Organic Chemistry,* Blakiston; Richter, *Organic Chemistry,* Wiley; Gatterman-Wielands, *Laboratory Methods of Organic Chemistry,* Macmillan.

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

Mr. Holmes.

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.

Text-books: Logan and Inman, *A Social Approach to Economics,* Toronto; Ise, *Economics,* Harpers.

References: Fairchild, Furniss, Buck, *Elementary Economics,* 4th edition, Macmillan; Bladen, *Political Economy,* University of Toronto; McIsaacs and Smith, *Essential Economic Principles,* Little and Brown.

Ten hours a week. Mr. Topping. 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. Lecturer to be announced. 3 units.

310 [6]. *International Trade.*—The mechanism of international trade; the balance of payments; equilibrium; transfers; investment abroad; price level changes; purchasing power parity; control of exchange rates; the gold standard; gold versus paper; comparative cost; trade policy; free trade; duties on imports; preferences; quotas; general and particular arguments for protection; international cartels and monopolies; trade treaties and international agreements.

References: Haberler, *The Theory of International Trade,* Hodge; Taussig, *International Trade,* Macmillan; Viner, *Studies in the Theory of International Trade,* Allen and Unwin.

Ten hours a week. Lecturer to be announced. 3 units.

410. *Economic History of the United States and Canada.*—A survey of major economic developments and trends in the United States and Canada, from the earliest period of colonial settlement to the present day.

Text-book: To be announced.

Ten hours a week. Lecturer to be announced. 3 units.

Education

512 [27]. *Administration of the Secondary School.*—The administrative staff and their duties; office routine; administration of guidance programme; assemblies; co-curricular activities; construction of the time table. Applications to British Columbia circumstances will be stressed throughout.

Text-book: Koos and others, *Administering the Secondary School,* American Book Co.

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

530 [21]. *Advanced Educational Psychology.*—A survey of recent psychological theories and a critical analysis of their implications for education.

Text-books: Tyler, *The Psychology of Human Differences,* Appleton-Century, and one other to be announced.

Ten hours a week. Miss Tyler. 3 units.

532 [30]. *Psychology of Adolescence.*—The junior and senior high school pupil as an individual and as a member of social groups; the physical, mental, social, emotional, and religious development typical of adolescence; the interests of teen-age boys and girls and their problems in personal relations, in the home, in the school, and in the community.

Text-books: To be announced.

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

533 [33]. *Psychology of Exceptional Children.*—The physical, mental, social, and emotional characteristics of exceptional children (gifted, backward, crippled, hard-of-hearing, etc.); factors in their growth and development; educational provisions suited to their needs.

Text-books: To be announced.

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

560 [39]. *Teaching in the Secondary Schools.*—This course on modern techniques of secondary school teaching will include a study of such matters as socialized procedures and provision for individual differences through unit methods. Some opportunity for specialization according to subject will be provided.

Text-book: Risk, *Principles and Practice of Teaching in Secondary Schools,* 1947 Edition, American Book Co.

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

582 [28]. *Educational Statistics.*—The frequency distribution; measures of central tendency; measures of variability; the normal probability curve and its applications; sampling; reliability; correlation, its meaning and application.

Text-book: Edwards, *Statistical Analysis,* Rinehart.

Five hours a week. Mr. Tyler. 1½ hours.

Notes:

1. Education 509, High School Methods, a reading course required for the Academic "A" Certificate, is available in the Summer Session.

   Each student must take work in methods of teaching in two high school subjects in which he has the necessary academic preparation. 1½ units.

2. All students planning to take the M.A. in Education are requested to report to Dr. F. T. Tyler immediately after the opening of the session. Normally such students will take Education 582, but this may be waived if the thesis does not require it. Education 582 is tentatively scheduled for 9.00 a.m., but this may be changed if it seems desirable.
3. Certain courses offered at the Summer Session may be used to meet the requirements for the Secondary Advanced (Counsellor) Certificate. For details, consult the Director of Educational and Vocational Guidance, Department of Education, Victoria, B. C.
4. Candidates for the M.A. should consult the 1948-1949 Calendar for the new regulations governing this degree.

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.

Texts for 1947-48: Larsen and Macdonald, *A Century of Short Stories;* Euripides, *Bacchae,* in Gilbert Murray's paraphrase, Allen and Unwin; Shakespeare, *Julius Caesar;* Sheridan, *The School for Scandal,* Everyman; Ibsen, *A Doll's House,* Everyman; Dilworth, *Twentieth Century Verse,* Oxford.

101 [1b]. *Composition.* — Elementary forms and principles of composition.

Text-books: 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. Mr. Hughes. 3 units.

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 1900.

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. Akrigg. 3 units.

421. *Theatre Practice.*—This course, consisting of Acting and Speech A, deals with the theory and practice of acting and with the fundamentals of voice production. It includes the following subjects: (a) principles of acting, pantomine, interpretation of the role, acting scenes, participation in a play; (b) breath control, tone quality, articulation, interpretation of the spoken line.

Students having a recognized equivalent of either Acting or Speech A and wishing to substitute another subject offered at the Summer School of the Theatre must apply for permission to the Director of the School.

Ten hours lectures and fifteen hours rehearsal a week. Extra rehearsals as arranged. Students taking this course are strongly advised not to register for any other course in the summer session.

Miss Somerset and staff of the Summer School of the Theatre.

3 units.

For time table, see Summer School of the Theatre schedule.

422. *History of the Theatre.*—A course that surveys the history of Western theatrical presentation from the Greek era to the present day. It will examine representative plays of important periods in the development of the theatre, with special emphasis upon the theatres in which they were produced, the art of the actors, scenic effects, styles of production, and dramatic criticism.

Ten hours lectures a week. Students taking this course who wish to participate in the production of a play at the Summer School of the Theatre may do so. In this event, however, they are strongly advised not to register for any other course in the summer session. Students taking the course are advised to do as much reading in advance as possible. The required reading list is available on request.

Miss Somerset. 3 units

For time table, see Summer School of the Theatre schedule.

428. *English Literature of the American Continent.*—A study of the major authors and developments in literature produced in the United States and Canada.

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

432 [18]. *Victorian Prose Literature.*—Literary, social, religious, and scientific currents of thought as represented by the work of Mill, Ruskin, Carlyle, Newman, Arnold, Darwin, Huxley, and Butler. The following texts in whole or part will be dealt with in lectures and class discussion: Mill, *Utilitarianism* and *Liberty,* Everyman; Ruskin, *Unto This Last,* Everyman; Carlyle, *Sartor Resartus* (selections), *Heroes and Hero Worship* (selections), *Past and Present,* Everyman; Newman, *Apologia Pro Vita Sua,* Everyman, *Idea of a University* (selections), ed. Yardley, Cambridge; Arnold, *Representative Essays,* ed. Brown, Macmillan, *Literature and Dogma* (selections), Burt's Home Library; Darwin, *Origin of Species,* Chapter IV, Everyman, or World's Classics, Oxford; Huxley, *Readings from Huxley,* ed. Rinaker, 1934, Harcourt, Brace; Butler, *Erewhon,* Everyman.

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

French

101, [1]. Texts: March, *Types of the French Short Story,* Ronald; *Petite Anthologie,* Crofts; Chinard, *Scènes de la vie française,* Ginn; Barton and Sirich, *Simplified French Review Grammar and Composition,* Crofts.

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

202 [2]. Texts: Balzac, *Le Père Goriot,* Larousse; Irvin & King, *Lectures intermédiaires,* Harper. Independent reading to include Balzac, *Eugénie Grandet.*

Composition in French based on the above readings, and from Barton and Sirich, *French Review Grammar and Composition,* Crofts.

Prerequisite: French 101 or its equivalent.

Ten hours a week. Mr. Pronger. 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. 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, the study of common minerals, rocks, and fossils.

Text-book: Thompson, *Fundamentals of Earth Science,* 1947, Appleton-Century.

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. Okulitch.

303 [3]. *Regional Geography.*—An outline course of regional geography covering the world. The physical structure or build of the continents, their climate, population, history of settlement, natural resources, industry, and transportation are studied. Emphasis may change from year to year as to the continents studied. Attention will be paid to teaching methods.

Textbook: Stembridge, *The World, A General Regional Geography,* Oxford University Press.

References: Renner and associates, *Global Geography,* Crowell; Hubbard, *The Geography of Europe,* Appleton-Century; Taylor, *Environment, Race, and Migration,* University of Toronto; Stamp, *Asia,* Dutton.

An atlas is a requisite: e.g., *University Atlas,* Phillips; *Oxford Advanced Atlas,* Oxford; *Modern School Atlas,* Appleton-Century.

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

German

90. *Beginners' Course.* — Greenfield, *An Outline of German Grammar,* Barnes and Noble; Hagboldt, *Graded German Readers,* I-V, "Alternate" series, Heath.

Ten hours a week. Miss MacInnes. 3 units.

100 [1a]. Texts: Chiles, *German Composition and Conversation,* Part I, Ginn; Hagboldt, *Graded German Readers,* VI-X, Heath; Kästner, *Drei Männer im Schnee,* Crofts; Bruns, *Book of German Lyrics,* Heath.

Prerequisite: University Entrance or Beginners' German.

Ten hours a week. Miss Miller. 3 units.

Government

330. *History of Political Thought.*—A discussion of the thought of some of the great political thinkers of the world in the light of the problems of today.

Readings to be assigned.

Ten hours a week. Lecturer to be announced. 3 units.

History

202 [2]. *The History of Canada.*—A general introductory course on Canadian History from the earliest times to the present. This course is required for Second Year Honours credit unless it has already been taken in the First Year or in Senior Matriculation. If credit has been given for History 202, History 203 or History 204 must be taken for Honours credit. History 202 is prerequisite for History 420, 427, 430, 433, 533.

Text-books: Lower, *Colony to Nation,* Longmans; Wrong, *The Canadians,* Macmillan; Creighton, *Dominion of the North,* Houghton Mifflin; Sage, *Canada from Sea to Sea,* University of Toronto.

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. Masters. 3 units.

420 [20]. *The Evolution of the Canadian Constitution.*—A survey of Canadian constitutional development from the Ancien Regime to the present day.

Text-books: Kennedy, *The Constitution of Canada,* Oxford; Kennedy, *Statutes, Treaties and Documents of the Canadian Constitution, 1713-1929,* Oxford; Coupland, *The Durham Report,* Oxford; Wheare, *The Statute of Westminster and Dominion Status.*

Essays will be assigned throughout the session.

Prerequisite: History 202.

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

419 [19]. *Great Britain Since 1714.*—This course aims at an interpretation of the constitutional, political, economic, and religious development of the British Isles since 1714.

Text-books: Williamson, *The Evolution of England,* Oxford; Ensor, *England, 1870-1914,* Oxford; Stephenson and Marcham, *Sources of English Constitutional History,* Harpers; Woodward, *The Age of Reform,* Oxford; Hall and Albion, *A History of England and The British Empire,* Ginn.

Essays will be assigned throughout the session.

Ten hours a week. Lecturer to be announced. 3 units.

429. *The History of Russia.*—The Slavs, their original homeland and dispersion. The Eastern Slavs form the Kievan State; the adoption of Christianity; dissolution of the Kievan State; the Mongol invasion; Mongol Russia; break-up of the Mongol horde and rise of Muscovite Russia; infiltration of European ideas culminates in adoption of European culture; Russian expansion; the rise of native culture and its synthesis with that of Western Europe; the failure to adopt western economic institutions produces a great crisis, which culminates in a series of revolutions, the last of which (1917, October) destroys the old system.

Text: Sir Bernard Pares, *A History of Russia,* Knopf, New York, 1947 (latest edition).

Ten hours a week. Mr. Tompkins. 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, and Frame, *General Mathematics,* Macmillan; any book of five or six place trigonometric and logarithmic tables. Students who plan to enter the Faculty of Applied Science should obtain McGraw-Hill's *Six Place Tables.*

Ten hours a week. Mr. Moyls. 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.
Prerequisite: Mathematics 100.

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

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

Text-book: Miller, *Calculus,* 2nd edition, Wiley.
Prerequisite: Mathematics 100.

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

300 [10]. *Calculus.*—The theory and applications of the subject.
Text-book: Miller, *Calculus,* 2nd edition, Wiley.
Prerequisite: Mathematics 202.

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

Music

305. *Musical Structure, Form and Analysis.*—This course traces the development of instrumental music from the seventeenth century to the present day. The course will emphasize the similarity of form in classical and modern music. Score reading optional.

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

Philosophy

205. *General History of Philosophy.*—A general survey of the history of philosophy from the Greeks to the present day.

Text-book: To be announced.

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

400 [7]. *Aesthetics.*—An analysis of aesthetic experience, beauty, and art. A discussion of the arts and their place in society. No technical knowledge of any art is presupposed.

Text-book: To be announced.

Ten hours a week. Mr. Patrick. 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.

Students who do not have the necessary prerequisites must take an additional two hours a week of tutorial work.

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

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

Prerequisite: University Entrance Physics A.

Ten hours lectures and eight hours laboratory a week.

Lecturer to be announced. 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 eight hours laboratory a week. 3 units.

Lecturer to be announced.

Psychology

100. *Introductory Psychology.*—The study of basic forms of human thinking and acting from a scientific and a practical standpoint.

Text-book: Ruch, *Psychology and Life,* American Book Co.

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

301 [9]. *Child Psychology.*—Points of view and methods of study of the psychological development of the child. The developmental process in terms of motor, intellectual, emotional, social, and language development. Implications for the control of child behaviour are dealt with as they grow out of this study.

Text-book: To be announced.

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

Slavonic Studies

100. *Basic Russian.*

Text-book: Semeonoff, *New Russian Grammar,* Dent.

Ten hours a week. Mr. St. Clair-Sobell. 3 units.

Social Work

505/506. *Social Case Work 3 and 4.*—Discussion of case work material from various fields of practice with emphasis on greater understanding of behaviour and on the development of skill in treatment.

Ten hours a week. Miss Hamilton. 3 units.

565. *Methods in Community Organization.*—An advanced course in methods and techniques of community organization.

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

Sociology

426. *Rural Community.*—A comparative study of rural communities with special emphasis on population element, structure, ecological organization, process and functions. General cultural patterns will be sketched and the inter-relationships of rural and urban communities will be noted. Stratification and social control will be given consideration.

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

Spanish

90. *Beginners' Course.* — Conversational approach, grammar, composition, translation.

Text-book: To be announced.

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

201. [2]. Reading of modern authors and *Don Quijote*, themes in Spanish, conversation.

Text-books: Kasten and Neale-Silva, *Lectures Amenas*, Harper; Mitchell, *Intermediate Spanish Composition*, Longmans; Cervantes, *Don Quijote de la Mancha*, Macmillan; Amner-Staubach, *Revista de América*, Ginn.

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

410. *Modern Spanish Drama.*—Lectures on the history of Spanish dramatic literature from López de Ayala and José Echegaray to Jacinto Benavente and the contemporary dramatists. Class discussions, assigned readings with individual reports on the plays read, and weekly tests (oral).

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. Espinosa. 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.

Prerequisite: Biology 100.

Eight hours a week and laboratory hours to be arranged.

Mr. Argue. 3 units.

SUMMER SESSION, 1947

Registration

FACULTY OF ARTS AND SCIENCE

	Men	*Women*
First Year	170	99
First Year Home Economics	.....	9
Second Year	281	112
Second Year Commerce	52	3
Second Year Home Economics	.....	20
Second Year Physical Education	3	.....
Second Year Pharmacy	1	2
Third Year	222	65
Third Year Commerce	80	4
Third Year Home Economics	.....	13
Third Year Physical Education	1	.....
Fourth Year	156	77
Fourth Year Commerce	80	4
Fourth Year Home Economics	.....	3
Graduates	166	60
Social Work	.....	5
	1212	476

FACULTY OF APPLIED SCIENCE

	Men	*Women*
First Year	9	.....
Second Year	8	.....
Third Year	1	.....
Fourth Year	.....	.....
Graduate	2	.....
Nursing	.....	6
	20	6

FACULTY OF AGRICULTURE

	Men	*Women*
First Year	5	1
Second Year	19	2
Third Year	20	4
Fourth Year	7	.....
Graduate	6	1
Occupational	2	.....
	59	8
Totals	1291	490
		1781

NOT INCLUDED IN ABOVE

Auditors	7	11

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 $7.00. 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 $7.00 for reservation deposit.

DIRECTED READING COURSES
Session 1948-49

Economics

310 [6]. *International Trade.*—The mechanism of international trade; the balance of payments; equilibrium; transfers; investment abroad; price level changes; purchasing power parity; control of exchange rates; the gold standard; gold versus paper; comparative cost; trade policy; free trade; duties on imports; preferences; quotas; general and particular arguments for protection; international cartels and monopolies; trade treaties and international agreements.

References: Haberler, *The Theory of International Trade,* Hodge; Taussig, *International Trade,* Macmillan; Viner, *Studies in the Theory of International Trade,* Allen and Unwin. 3 units.

Mathematics

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

Text-book: Miller, *Calculus,* 2nd edition, Wiley. 3 units.

WORKSHOP IN ALCOHOL EDUCATION
(July 26th to August 6th)

At the request of the Department of Education this Workshop will be conducted for two weeks beginning July 26th.

The purpose of the Workshop is (a) to provide at least one teacher in each secondary school, who has an understanding of the nature, problems and subject-matter of alcohol education as a background for directing and teaching the programme and (b) to provide those interested with the opportunity of assisting in developing units for inclusion in the course of study. Principals of secondary schools have been asked to nominate membership in the Workshop but enrolment from others will be accepted if accommodation is available. Special registration forms may be secured from the Division of Alcohol Education, Department of Education, Victoria.

The Workshop will require attendance during the scheduled hour and for one additional hour during the day. University credit will not be awarded for this Workshop, but Provincial Department of Education credit for certification status will be determined by the individual contribution of members to the Workshop. There are no tuition or other fees.

Time and place to be announced.

REDUCED RAILWAY FARES 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 or coach class ticket and *secure at that time* a Standard Convention Certificate. This ticket must be purchased between July 1st and July 7th, inclusive. If presented to the Ticket Agent not later than August 24th, 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.

THE UNIVERSITY BOOK STORE

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

During the Summer Session the book store is open Monday to Friday, from nine to four o'clock, and Saturday, from nine to twelve.

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.