UBC SUMMER SESSION 1969

PUBLICATIONS OF THE UNIVERSITY OF BRITISH COLUMBIA

Announcement of The Summer Session

SUPPLEMENT TO CALENDAR 1968-69

Fiftieth Session: JULY 2 to AUGUST 15, 1969

The University of British Columbia

VANCOUVER 8, CANADA Vol. 54, GENERAL SERIES No. 3

SUMMER SESSION, 1969

DATES

April		
1	Tuesday	Students who have not previously attended the University should have made application and submitted all necessary documents by this date.
May		
1	Thursday	Class lists for courses in which enrolment is limited will be determined on this date; space will be reserved only for students who are registered by this date; no assurance can be given that any registration will be accepted for such courses after this date.
		Last day for registration without late penalty.
		Last day for consideration of applications from *new* students.
June		
3	Tuesday	Last day for registration. (Late fee assessed after May 1).
July		
2	Wednesday	*Last permissible day for changes in students courses; a $5.00 fee will be assessed for each change in course. Lectures begin at 8:15 a.m.
3	Thursday	*All changes in registration for courses must be reported to the Registrar's Office by this date.*
4	Friday	Last date for payment of balance of summer session fees.
9	Monday	First of series of Library Instruction Lectures Bu.106 at 10:25, 1:30. Series continues Tues. at same hours.
August		
13	Wednesday	Last day of lectures.
14	Thursday	Final Examinations. There will be three examination periods each day, the third commencing in the late afternoon.
15	Friday	

*The last day for registration is June 2. Courses may, in some cases, be changed on July 2 but such changes must be reported by July 3 and students *must* be in attendance on July 3 in classes for which they are registered. Each subject or course change will, if permitted, be subject to an assessment of $5.00. A late registration fee of $20.00 will be assessed all students registering after May 1.

The University will be closed all day each Saturday.

TIME TABLE OF LECTURES, CREDIT COURSES

Classroom assignments for lectures will be posted in the main buildings and on notice boards throughout the campus on the week-end preceding the commencement of the Session.

Monday to Friday Inclusive

Course

8:15 a.m.-10:10 a.m.

Chemistry 103, Lecture
Chemistry 230, Lecture
Chemistry 409, Lecture
Commerce 151/190
Commerce 307, July 23-August 15
Commerce 352
Commerce 356, July 2-22
Computer Science 210,
Three hour Laboratory to be arranged.
Economics 304, Lecture
Education 200
Education 308, Section 1
Education 309, Section A
Education 331, Section 1
Education 332, Section A
Education 333, Lecture
Education 400, Section 1
Education 404-French-July 2-22
Education 404-Geography/Social Studies-July 23-August 15
Education 404-History/Social Studies-July 2-22
Education 404-Home Economics-Section 1, Laboratory
Education 407, Section 1
Education 409
Education 410-Home Economics-July 2-22
Education 410-Industrial Education-July 23-August 15
Education 412
Education 414-General
Education 416
Education 430, Section A
Education 431, July 2-22
Education 435-Home Economics-July 23-August 15
Education 435-Industrial Education-July 2-22
Education 436, July 23-August 15
Education 470, Section 1
Education 472/473-Elementary-Section A
Education 475/476, Lecture
Education 481, 9:15-10:10
Education 482, 8:15-9:10
Education 491, Section A
Education 525
Education 535
Education 552
Education 565-Mathematics
Education 569

Course

Education 591
English 200, Section A
English 303, Section A
English 309, Section A
English 311, Section A
English 380
English 429
Fine Arts 228
Fine Arts 301, Lecture
Fine Arts 305/405/415, Lecture
Fine Arts 307/407/417, Lecture
Fine Arts 401, Lecture
French 110, Section 1
French 202
French 302
French 402
French 413
Geography 101, Lecture,
Eight hour Laboratory to be arranged.
Geography 350, July 2-22
Geography 450, July 23-August 15
Geology 105, Lecture
German 100, Section 1
German 310
History 202
History 206
History 305
History 313
History 422
Home Economics 201, Lecture
Latin 120/200/220/301/405/521
Mathematics 120, Section A
Mathematics 200
Mathematics 306
Mathematics 307
Mathematics 514
Music 120
Music 320
Philosophy 100
Physical Education 201, 9:15-10:10
Physical Education 202, 9:15-10:10
Physical Education 210, 8:15-9:10
Physical Education 240, 8:15-9:10
Physics 200
Physics 400
Psychology 100
Psychology 206
Psychology 400
Russian 180, all day
Sociology 425
Spanish 100, Section 1
Spanish 200, Section 1
Theatre 320

Course

10:25 a.m.-12:20 p.m.

Anthropology 300
Asian Studies 320
Biology 101
Biology 335
Classical Studies 331
Classical Studies 333
Commerce 110, Lecture, Three hour Laboratory to be arranged.
Commerce 323/361, alternate days
Commerce 362, July 2-22
Commerce 376
Creative Writing 201
Economics 200
Economics 300
Economics 304, Laboratory
Education 301
Education 307, Section 1
Education 308, Section 2
Education 309, Section B
Education 331, Section 2
Education 332, Section B
Education 333, Laboratory
Education 336
Education 390, Section A
Education 400, Section 2
Education 403, July 2-22
Education 404-English-July 2-22
Education 404-Home Economics-Section 2, Laboratory
Education 405
Education 407, Section 2
Education 417, July 23-August 15
Education 419
Education 426, Section 1, July 2-22
Education 427, Section 1, July 23-August 15
Education 430, Section B
Education 470, Section 2
Education 472/473, Elementary, Section B
Education 472/474, Secondary
Education 475/476, Laboratory
Education 508-Reading
Education 508-Social Studies
Education 511
Education 523
Education 530, Lecture
Education 531, July 2-22
Education 536
Education 539
Education 556, July 2-22
Education 557, July 23-August 15
Education 558, July 23-August 15
Education 565-Commerce
Education 576
Education 578, July 23-August 15
Education 582

Course

English 340
English 365
English 366
English 391
English 392
English 420
English 451
English 505
English 539
Fine Arts 101
Fine Arts 301, Laboratory
Fine Arts 305/405/415, Laboratory
Fine Arts 307/407/417, Laboratory
Fine Arts 401, Laboratory
Fine Arts 430
French 110, Section 2
French 120/210
French 220
French 409
Geography 102, Lecture, Two hour Laboratory to be arranged.
Geography 337, July 2-22
Geography 437, July 23-August 15
Geography 491
Geology 105, Laboratory
German 100, Section 2
German 200
German 412
History 100
History 326
History 400
History 420
Home Economics 220/420, Lecture
Home Economics 360
Italian 100
Mathematics 202
Mathematics 300
Mathematics 308
Mathematics 410
Mathematics 532
Music 101
Music 303
Music 401
Philosophy 301
Physical Education 203, 11:25-12:20
Physical Education 214, 11:25-12:20
Physical Education 219, 10:25-11:20
Physical Education 230, Section A, 12:30-1:25
Physical Education 243, 10:25-11:20
Physical Education 260, 10:25-11:20
Physical Education 460, 11:25-12:20
Physics 110, Lecture
Political Science 310
Political Science 413
Psychology 200
Psychology 305
Sociology 412

Course	*Course*
English 100, Section A	Spanish 100, Section 2
English 200, Section B	Spanish 200, Section 2
English 300	Theatre 300
English 303, Section B	Theatre 301
English 311, Section B	Zoology 202, Lecture
English 321	

1:30 p.m.-3:30 p.m.

Anthropology 301	Fine Arts 300, 1:30-5:45
Biology 101, Laboratory, 1:30-4:30, M.T.W.Th.	Fine Arts 402, Lecture
Biology 335, Laboratory	French 306
Botany 330, Lecture, M.T.W.Th., Laboratory, F.	Geography 324, July 23-August 15
Chemistry 103, Laboratory	Geography 496
Chemistry 230, Laboratory, 1:30-4:30	History 328
Chemistry 409, Laboratory, 1:30-5:45	Home Economics 201, Section 1, Laboratory 1:30-4:30, T.Th.
Commerce 373, alternate days	Home Economics 201, Section 2, Laboratory 1:30-4:30, W.F.
Economics 310	Home Economics 220/420, Laboratory 1:30-4:30 Twice weekly.
Economics 535	Home Economics 362
Education 305, Lecture	Mathematics 411
Education 307, Section 2	Mathematics 203, Section A
Education 331, Section 3	Mathematics 530
Education 375, Five hours Laboratory to be arranged.	Microbiology 200, Lecture
Education 400, Section 3	Music 302
Education 404-Guidance-July 2-22	Music 326, Section A
Education 404-Home Economics-Lecture, M.W.F., Section A	Physical Education 213, 2:35-3:30
Education 404-Physical Education-July 2-22	Physical Education 218, 1:30-2:25
Education 426, Section 2, July 2-22	Physical Education 226, 2:35-3:30
Education 427, Section 2, July 23-August 15	Physical Education 262, 1:30-2:25
Education 460	Physical Education 361, 2:35-3:30
Education 492, Section A	Physical Education 363, 1:30-2:25
Education 508-Music	Physics 110, Laboratory, 1:30-4:30, M.T.W.Th.
Education 530, Laboratory, W.	Physics 219, 1:30-4:30, M.T.W.Th.
English 200, Section C	Political Science 201, July 2-22
English 303, Section C	Political Science 416, July 23-August 15
English 304	Sociology 306
Fine Arts 125	Zoology 200, Laboratory

3:45 p.m.-5:45 p.m.

Botany 330, Laboratory, M.W.	Microbiology 200, Laboratory
Education 305, Laboratory	Physical Education 250, 3:45-4:40
Fine Arts 402, Laboratory	

NOTES:

Examination Schedule

The final examination schedule will be posted around the campus in the early weeks of the Summer Session. Final examinations will be held August 14 and 15 and students are advised not to make travel plans until after August 15.

Language Laboratory—Faculty of Arts

The Language Laboratory, Bu. 114-118, will offer selected programmes weekly for students of foreign language who wish to supplement classroom instruction by additional practice in the laboratory.

All programmes scheduled will be available on request *four* hours daily without regular monitoring or registered attendance.

Regulations Affecting Course Changes

Any change in study programme will incur an additional fee assessment of $5.00.

Preliminary study is essential for each Summer Session course if the normal course content is to be covered in the time available during the summer. Prospective Summer Session students must, therefore, commit themselves to their programmes of study by the last day for registration, May 1 (June 3 for students who have paid the late registration fee).

Changes in registration, where permitted, must be made on the first day of lectures, July 2, and reported to the Registrar's Office not later than July 3. Each such change will be assessed a fee of $5.00 that must be paid before a *class card* will be issued for the course to be taken. Course changes necessitated by over-subscription in enrolment or the dropping of courses by the University will not incur additional fee assessments.

Regulations Affecting Supplemental Examinations

It is anticipated that supplemental examinations will be held on the afternoon of Friday, December 5, 1969, at 3:30 p.m. Students who cannot write the examination at the University will have the opportunity of writing at one of various centres throughout the Province. In exceptional circumstances special centres will be established.

A student will be granted a supplemental examination in a subject which he has taken during the Summer Session provided (i) he has written the final examination and has obtained a mark of not less than 40% and (ii) he has obtained 3 units of credit in the session. Supplemental privileges will not be granted students who fail the laboratory work of science or industrial arts courses.

Registration in Courses with a Limited Enrolment

Students registering in these courses are strongly advised to indicate a second choice in the event that a course has reached its capacity.

Special Notice for Teachers

Programme change affecting Certification

For several years now, teachers holding the E.B. Certificate and entering the Elementary degree programme have undertaken English 200 as part of second year. They had that course, plus 18 units of appropriate course-work to complete, in order to meet requirements of third year. In the 1969-70 calendar for the Faculty of Education, it states that for these teachers English 200 is no longer a required course for second year, but one of third year. Elementary Division teachers who wish to qualify for the Standard (formerly Elementary A) Certificate and who feel that they may be affected by the change are advised to complete an application for change of certificate (application in the envelope of registration cards) and/or make inquiries of the Records Office of the Faculty.

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NOEL C. MITCHEL, B.A., M.A., Senior Lecturer, Queen's University, Belfast.
ROBERT L. MONAHAN, B.A., M.A., Ph.D., Associate Professor, Western Washington State College, Bellingham.
H. OLAV SLAYMAKER, Ph.D., Assistant Professor.

GEOLOGY

JON C. AVENT, B.A., M.S., Ph.D., Assistant Professor, Department of Geology, Fresno State College, California.

GERMAN

RONALD C. BEAUMONT, B.A., M.A., Assistant Professor.
RONALD GRAY, Professor, Cambridge, England.
MRS. MARIA H. LENOS, B.A., M.A.
HORST MARTIN, Instructor.
LOUIS MEDVECZKY, B.A., Lecturer.

HISTORY

ROGER T. ANSTEY, M.A., Ph.D., Professor, University of Kent, Canterbury, England.
J. S. CONWAY, B.A., M.A., Ph.D., Associate Professor.
FRANK M. GREENWOOD, B.A., B.C.L., M.A., Instructor.
W. J. McDERMOTT, B.A., M.A., Assistant Professor, University of Winnipeg.
GRADY McWHINEY, B.S., M.A., Ph.D., Professor.
JACQUES MONET, B.A., Ph.L., M.A., Ph.D., Th. L., Assistant Professor, Loyola College, Montreal.
MISS PATRICIA E. ROY, B.A., M.A., Instructor, University of Victoria.
CHARLES J. WRONG, B.A., M.A., Ph.D., Assistant Professor, Simon Fraser University.

HISPANIC & ITALIAN STUDIES

J. A. BRUTON, B.A., Director of Studies, British Council, Madrid.
MRS. GIUSEPPINA DE STEFANIS, Dottore in Lettere, Instructor of Italian.
J. A. McDONALD, M.A., Associate Professor of Spanish.

HOME ECONOMICS

MISS RUTH BERRY, M.A., Assistant Professor, University of Manitoba.
MRS. SHIRLEY CHEN, Ph.D., Nelson, B.C.

LATIN

JAMES RUSSELL, M.A., Ph.D., Assistant Professor.

MATHEMATICS

F. Y. BRAUER, Ph.D., Professor, University of Wisconsin.
PETER J. HILTON, Ph.D., Professor, Cornell University.
T. A. HOWITZ, B.S., M.S., Ph.D., Associate Professor.
G. E. HUIGE, B.Sc., M.Sc., Ph.D., Assistant Professor.
LAWRENCE E. LEFEVRE, M.A., Ph.D., Assistant Professor.
EIZENS LEIMANIS, Mag. Math., Dr. Rer. Nat., Professor.
FRANK W. LEMIRE, B.Sc., M.A., Ph.D., Assistant Professor.
ELOD MACSKASY, Cand. Sc., Associate Professor.
ALDEN F. PIXLEY, A.B., M.A., Ph.D., Associate Professor of Mathematics, Harvey Mudd College, Claremont, California.
DENNIS SJERVE, B.A., Ph.D., Assistant Professor.
MICHAEL SLATER, Ph.D., Assistant Professor, University of Bristol, England.

JAMES E. SMITH, B.A., B.Ed., Associate Professor.
ROY WESTWICK, M.A., Ph.D., Associate Professor.

MICROBIOLOGY

T. H. BLACKBURN, B.A., M.Sc., Ph.D., Assistant Professor.
R. A. J. WARREN, B.Sc., M.Sc., Ph.D., Assistant Professor.

MUSIC

HARRY ADASKIN, Special Lecturer.
TERENCE BAILEY, Mus. B., M.F.A., Assistant Professor.
JOHN S. CHAPPELL, B.Mus., M.Mus., Instructor.
A. E. CLINGMAN, B.M.E., M.M.E., M.A., Ed.D., Professor.
RALPH E. DE COURSEY, B.A., M.M., Instructor.
DONALD C. GIBBARD, B.A., M.A., Associate Professor.
DAVID ROBBINS, B.Sc. (Mus.Ed.), M.Sc.(Ed.), Part-time Instructor, Vancouver City College.
JOHN E. SAWYER, B.A., B.Mus., M.Mus., Instructor.
FRENCH A. TICKNER, B.M., M.M., Associate Professor.

PHYSICAL EDUCATION

ERIC F. BROOM, M.Sc., Assistant Professor.
JOHN L. CARTMEL, B.P.E., Instructor.
EDWIN H. M. GAUTSCHI, B.P.E., B.Ed., M.P.E., Assistant Professor.
MRS. BONNIE GORDON, B.A.(P.E.), M.Sc., Assistant Professor.
NESTOR N. KORCHINSKY, B.P.E., M.A., Instructor.
RONALD G. MARTENIUK, B.P.E., M.A., Ed.D., Assistant Professor.
MRS. MARION E. PENNEY, B.A., M.A., Associate Professor.
MISS BARBARA SCHRODT, B.P.E., M.S., Assistant Professor.
DONN E. SPENCE, B.P.E., M.S., Assistant Professor.
SHARON A. WHITTAKER, B.Sc., Instructor.

PHYSICS

PETER W. MARTIN, B.Sc., Ph.D., Assistant Professor.
LUIS DE SOBRINO, M.Sc., Sc.D., Associate Professor.
BRIAN G. TURRELL, B.A., M.A., D.Phil., Assistant Professor.
TADEUSZ J. ULRYCH, B.Sc., M.Sc., Ph.D., Associate Professor.

POLITICAL SCIENCE

J. E. S. HAYWARD, B.Sc., Ph.D., Professor.
JEAN LA PONCE, Ph.D., Professor.
W. H. MORRIS-JONES, B.Sc., London Institute of Commonwealth Studies, London, England.

PSYCHOLOGY

R. S. CORTEEN, M.A., Ph.D., Assistant Professor.
KENNETH D. CRAIG, B.A., M.A., Ph.D., Assistant Professor.
JOSEF SCHUBERT, B.A., M.A., Ph.D., Associate Professor, University of Saskatchewan at Regina.
EDRO I. SIGNORI, M.A., Ph.D., Professor.

RUSSIAN

JAN J. SOLECKI, B.A., M.A.(Slav.St.), M.A. (Econ.), Assistant Professor.

SOCIOLOGY

TROY DUSTER, Ph.D., Associate Professor, University of California, at Berkeley.
GEORGE A. GRAY, A.B., Assistant Professor.

THEATRE

MISS JANE STEVENSON, L.R.A.M., L.G.S.M.(Speech), A.L.A.M.(Acting), Assistant Professor.
KLAUS D. STRASSMANN, Ph.D., Assistant Professor.
STANLEY A. WEESE, B.A., M.A., Instructor.

ZOOLOGY

GEOFFREY G. E. SCUDDER, B.Sc., D.Phil., Professor.

Admission, Registration and Attendance

CREDIT COURSES

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

The University reserves the right to limit attendance, and to limit the registration in, or to cancel, any of the courses listed.

REGISTRATION PROCEDURE.

(Registration will be denied any applicant who does not comply with the regulations listed below.)

1. Application:

(a) Students registering in the University for the first time:

Obtain from the Registrar's Office an *Application for Admission* form. Return this, duly completed, together with certified copies of ALL University Entrance Certificates and any higher certificates possessed not later than April 1. School teachers taking courses for credit either toward a university degree or toward teacher certification must present official transcripts of their matriculation standing, of their professional training and of any university work already completed. British Columbia teachers who have not completed their professional training at the University of British Columbia or the University of Victoria or Simon Fraser University must, in addition, request the Registrar, Department of Education, Victoria, B.C., to forward to the Records Office of the Faculty of Education a Transfer of Credit statement certifying their status as teachers in this province, *if this has not been done previously.* This statement should be requested early in order that you enrol before the April 1 deadline.

Students who fail to provide full documentation in support of their applications by May 1 will be refused admission to the Summer Session for the current year.

A fee of $10.00 is assessed for the evaluation of educational documents not issued by institutions in British Columbia. The fee must be submitted with the application form accompanied by supporting documents. The fee is non-refundable and not applicable to tuition; it is in addition to the registration fee which is the first instalment of the Summer Session fees.

(b) Students who have previously registered in the University:

Apply by letter stating Session last attended, and programme to which admission is being sought.

2. Registration:

(a) Registration material will be sent upon request; registration cards must be completed fully, including courses to be taken (and section number if section is indicated) and returned to the Registrar's Office. Students are reminded that it is their responsibility to ensure that the courses elected are applicable to their programme.

(b) Each registration must be accompanied by a deposit of $10.00 (certified cheque) which is non-refundable. (Do not mail cash.)

(c) All registrants who have not completed registration cards and submitted them to the Registrar's Office by May 1 will be assessed a late registration fee of $20.00; which must, in addition to the minimum deposit, accompany each late registration. No registration will be accepted after June 3.

(d) A student who has established his eligibility for admission and who has registered will receive a "Library and Identification" card which must be carried by the student at all times during the Summer Session to identify him as a registered student.

(e) Registrants will not be considered as enrolled until fees have been paid in full and registration is subject to cancellation unless payment has been made by July 4.

(f) If a student whose registration has been cancelled for non-payment of

fees applies for reinstatement and his application is approved, he will be required to pay a reinstatement fee of $10.00 and all other outstanding fees before he is permitted to resume classes.

(g) A student in a baccalureate programme who registers for a graduating essay or thesis in a winter session and who is unable to complete the requirements for it, is required to register in the session in which he plans to submit the essay or thesis and pay a fee of $50.00 plus A.M.S. fee if he is on campus or a $25.00 fee if he is off campus. A student will be considered 'on campus' if he is making use of the library facilities and having interviews, on occasion, with his faculty adviser.

(h) A student who cancels registration before classes begin will be refunded all but $10.00 of tuition fees paid. The late registration fee is not refundable.

3. Restriction on registration in the Summer Session:

(a) A student who obtained **Fail** standing during the last Winter Session attended **may not** enrol in Summer Session.

(b) A student in attendance at a secondary school during the previous winter **may not** enrol in the Summer Session.

(c) Students enrolled in the Winter Session 1968-69 may be permitted to register as late as June 16 if circumstances justify late acceptance; the late registration fee of $20.00 will not necessarily be waived.

(d) The University reserves the right to reject applicants for the Summer Session whose previous academic records are unsatisfactory, even if they technically meet the entrance requirements.

Regulations Governing Credit Courses:

1. The maximum credit for Summer Session work in any one calendar year is 6 units. Students taking a correspondence course concurrently with the maximum 6 unit load must defer the writing of the final examination of the correspondence course until December.
2. Credit will not be given toward the B.A. or B.Sc. degrees for courses in Commerce (except 459), Education, Home Economics, or Physical Education. In the department of English, Fine Arts, Music, and Theatre some courses are useful for credit only toward the B.Ed. degree.
3. Students must attend regularly the classes in a course for which they register. Those whose absences from a course are considered excessive by the Instructor will not be credited with attendance in that course.
4. Except for English 100 and English 200 no course may be repeated more than once.

AUDITORS IN CREDIT COURSES

In some courses where there is space available and student participation is not mandatory, it is possible to accept auditors. An auditor does not participate in seminars, submit essays, etc. or write examinations. Where it is possible to permit registration of an auditor a special auditor's fee is assessed. Application must be made for admission as an auditor with the specific course(s) listed in which auditing is desired.

NON-CREDIT (CONTINUING EDUCATION) COURSES

Registration Procedure

Write to the Extension Department stating the course or courses desired. Prospective students will then be mailed application forms which should be returned as soon as possible as the size of classes is limited.

Fees are payable in full at the first meeting of the class. Fee assessments are under course descriptions.

Students who have not registered by mail may do so at the first meeting of the class if space is available.

EXTRA-SESSIONAL CREDIT COURSES

A number of Extra-Sessional Credit Courses will be held two evenings a week from May-July, 1969. For details and course descriptions, see page 66 of this calendar.

Students wishing to enroll in these courses must register through the Registrar's Office before May 1.

GRADUATION

Summer Session students expecting to complete degree requirements must make

formal application for graduation on the blue card provided with other registration material.

Students who complete degree requirements will be given a statement indicating their status, and may, if they so desire, obtain their degree diplomas in the Fall. The Congregation ceremony will be held in May, 1970.

FEES*

(*Subject to change without notice)

Fees must be paid by certified cheque or by postal or bank money order made payable to "The University of British Columbia". Cheques drawn on banks outside Greater Vancouver must include exchange and may not be post-dated.

The registration fee is $10.00, which is non-refundable, and is the first instalment on tuition. The balance of fees is payable on or before July 4, 1969.

A fee of $20.00 for "Late Registration" will be charged all students registering for credit courses after May 1.

Scale of Fees

Includes Summer Session Association Fee

Tuition:

6 units	$202.00
5½ units	186.00
5 units	169.00
4½ units	152.00
4 units	136.00
3½ units	119.00
3 units	102.00
2½ units	86.00
2 units	70.00
1½ units	52.00
Graduate Student Centre fee	3.00
Late registration fee	20.00
Each course change	5.00

NOTE—A student who withdraws must submit a statement *in writing*, either by letter or by a form that is available at the Registrar's Office. Refunds will *not* be authorized for students who notify the Registrar's Office by telephone that they are withdrawing from classes. No refund will be made for fees after July 18. In the computation of refunds prior to this date an amount equal to one-fifth of the course fees will be charged for each week or part of a week prior to the date on which the student notifies the Registrar officially of his cancellation of registration or his withdrawal from the University. A student who cancels registration before classes begin will be refunded all but $10.00 of fees paid. The late registration fee is not refundable.

Special Fees

Includes the Summer Session Association Fee

For Auditors	3 units	$52.00
	1½ units	$27.00

Notes—

(i) The special fee for Auditors does not apply to courses sponsored by the Department of Extension, to Physical Education or other activity courses, nor to academic courses in which active student participation is mandatory.

(ii) Auditors are subject to the Summer Session Association fee of $2.00

For theses or graduating essays only $52.00

Students registered for graduating essays only, such as Commerce 490, will pay $50.00 plus S.S.A. fee of $2.00, unless they were not previously registered for this course, in which case they will pay fees according to the unit value of the course in question.

Supplemental Examination, per paper

(i) Written at the University	$ 7.50
(ii) Written at an established outside centre	$10.00
(iii) Written at a special centre	$20.00

Applications for supplemental examinations, accompanied by the necessary fees, MUST be in the hands of the Registrar not later than November 1.

The Thea Koerner Graduate Student Centre membership fee. All students in Summer Session, who are enrolled in the Faculty of Graduate Studies will be assessed this fee. The fee is compulsory unless the $26.00 membership fee was paid in September, 1968 ... $ 3.00

Scholarships, Bursaries, Loan Funds

(Open only to students taking regular academic courses)

University Summer Session Bursaries

Thirty bursaries of $50 each are available in the Summer Session for students who are taking a full undergraduate course (6 units) of work in the summer session. They will be awarded to undergraduates who hold permanent teaching certificates in British Columbia and are actively engaged in teaching in the Province. Awards will be made on the basis of scholarship, financial need, interest in teaching, and participation in the activities of school and the community. Special consideration will be given to applicants from more remote parts of the Province. Applications, on forms available from the Dean of Inter-Faculty and Student Affairs, must be received by the University not later than May 31.

The Summer Session Association Loan Fund

This fund, established in 1947, provides loans for students proceeding to a degree by summer session. A limited number of loans, to a maximum of $150 each, are available to (a) teachers (as defined by the Public Schools Act of British Columbia) and to (b) other non-winter session students who have previously completed at least six units by summer session at this University. Loans are to be available to teachers and non-teachers respectively in the same proportion as their numbers in attendance in the previous summer session. Loans are repayable in full by March 1st next, until which time no interest is charged. Application must be made to the Dean of Inter-Faculty and Student Affairs. Loans cannot be made until after the beginning of summer session, but those who will require loans may write in advance to determine whether they are eligible.

The Dr. H. T. J. Coleman Scholarship

This scholarship, of $100, is offered annually in the summer session, in honour of Dr. H. T. J. Coleman, who contributed greatly to the development of the Summer School at the University. The award will be made by the Scholarship Committee to a student in the Third or higher year who has an outstanding record in one or more of the fields of psychology, philosophy, and education.

The Summer Session Association Prizes

Prizes of $100 each, the gift of the Summer Session Association, will be awarded at the conclusion of each summer session to the five top ranking students who complete the final units required for an undergraduate degree by attendance at that summer session. To be eligible, a candidate must have taken the final fifteen units for the degree by means of University of British Columbia summer session, extra-sessional, or correspondence courses.

Summer Session Association Prize for Graduate Students

A prize of $100, the gift of the Summer Session Association, will be awarded at the conclusion of each summer session to the most outstanding student who completes the final units required for a Master of Arts in Education or a Master of Education degree by attendance that summer session. To be eligible, a candidate must have taken the final twelve units for the degree by means of University of British Columbia summer session, extra-sessional, or correspondence courses.

Scholarships for Summer School of the Arts

For information about scholarships and bursaries in Theatre, Music, and Visual Arts, see the appropriate sections.

SUMMER SESSION ASSOCIATION 1969 Executive Committee

Past President ..... Ian Cameron
President ..... Thomas Walters
Vice-Pres. ..... John Collins
Past President ..... Peter Barrett
Treasurer ..... Ralph Sebastian
Secretary ..... Kenneth Travis
Athletics and Special Events ..... Donald Ross
Social Events ..... Paul West
Publications ..... Peter Andres
Academic Activities ..... James Sullivan
Associate Members ..... Robert Blount, Lynne Blount, William Lucey, Theo Meyer, Vernon Morris, Alan Berry

Admittance to all activities sponsored by the Summer Session Association is pro-

vided to all members of the Association. Admission to all activities is by S.S.A. Activity Card. Each member is allowed one guest, admitted free, to each activity.

The Summer Session Association of the University of British Columbia is composed of all persons registered at summer session. All students pay a fee of $2.00 at the time of registration except those attending non-credit, short-term courses, and Graduate Students, not registered for a summer session course, who may purchase activity cards from the S.S.A. office, located in Brock Hall.

The Summer Session Association was formed early in the history of the University to care for the extra-curricular, intellectual and social requirements of the summer session students. Growth and expansion through the years have made the Association of major importance on the summer campus.

The organization provides intellectual, social and recreational activities for both students and staff of the summer session. It deals with all matters pertaining to student welfare on the campus; it provides certain summer session scholarships for credit and non-credit courses and has made available a considerable sum of money for interest-free student loans. The Executive Committee of the Association serves as a liaison group between the student body and the various governing bodies of the University.

The Summer Session Association established the S.S.A. Loan Fund in 1947 to provide loans for students proceeding to a degree by Summer Session. This money comes from your S.S.A. fee. Until 1968 there was $33,000 in the fund. Your 1969 executive put another $3,000 into the fund which was part of the excess of the 1968 budget. Thus there is now a total of $36,000. Loans are repayable in full by March 1 next, until which time no interest is charged. Application must be made to the Dean of Inter-Faculty and Student Affairs.

The Summer Session Association holds two general meetings each summer. The Executive meets weekly during the session and as often as is deemed necessary throughout the year.

TRAFFIC AND PARKING REGULATIONS

Systematic regulation of traffic speed and direction, and of parking and stopping, will be enforced on campus. Brochures outlining traffic and parking regulations will be available at the Traffic Office. These regulations remain in effect throughout the Summer Session and all faculty, staff and students of the University are responsible for obtaining and familiarizing themselves with them.

Registration:

Faculty, staff and students who have not already registered their automobiles, motorcycles and scooters for 1968-69 are required to register them for the Summer Session and obtain appropriate permits.

Faculty, staff and students must register their automobiles, motorcycles and scooters immediately upon arrival on campus. They will register at the Traffic Office, 1801 Wesbrook Crescent, and registration must be completed by July 4, 1969.

Day Parking: On **MONDAY through FRIDAY** 7:30 a.m. to 5:00 p.m.

FACULTY and STAFF

Faculty and staff may park their automobiles in any lot assigned for faculty and staff; motorcycles or scooters may be parked in any pay lot.

STUDENTS

Students must park their automobiles in the lot designated by their sticker; motorcycles and scooters must be parked only in the covered sheds at the north ends of "A" and "C" lots.

Fees:

Faculty and staff automobiles	$7.50
Faculty and staff motorcycles or scooters	2.50
Student automobiles, Preferred ...	5.00
Student automobiles, Non-preferred	2.50
Student motorcycles or scooters ..	1.25

Visitors' Pay Lots:

First hour	10c
Second hour	15c
Each additional hour 25c up to a maximum of .	$1.00 per day

Meters: Time and fee as specified on meters.

Night and week-end Parking:

MONDAY through FRIDAY from 5:00 p.m. to 7:00 a.m. next day AND on **FRIDAY** from 5:00 p.m. to 7:00 a.m. MONDAY.

Pay parking lots are available for visitors, but drivers may also park free

of charge in any designated parking lot, except for the following restricted areas:

(a) Lots designated "Faculty and Staff Registered Only Day and Night."
(b) Zones designated "No Parking Anytime Commercial Vehicle Loading Zone."
(c) The Faculty Club parking lot reserved for members and their guests.
(d) The Graduate Centre parking lot reserved for members and their guests.
(e) A few individually reserved areas designated "reserved."
(f) Pay lots when an attendant is in charge and a parking fee is required.
(g) Federal Buildings' parking lots.
(h) Lots designated as "No Parking Anytime Except by Special Permit."

Short Course Students:

Students who are attending courses which do not involve attendance for more than ten days of the Summer Session period may elect either to pay the $2.50 fee for a parking permit; or may use the Visitors' Pay Lots on payment of the standard charge.

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 textbooks 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 8:45 to 5 o'clock.

Text-books and material required for pre-reading will be sent C.O.D. on request.

LIBRARY INSTRUCTION

Library instruction will be given during the first week of Summer Session. Because of the extensive changes made in the University Library system, it is recommended that both students new to the campus as well as those who have not been enrolled during a recent session attend. An introduction to the Library will be provided along with information on finding books and periodical articles. Times and assembly points will be posted in the Library.

In addition, the Library publishes information pamphlets which may be picked up at various points throughout the Library.

UNIVERSITY HEALTH SERVICE

Wesbrook Building

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

British Columbia Hospital Insurance is available to students whose permanent residence is in B.C., or who have resided in the province for 12 months.

Students from other Canadian provinces will be covered in B.C. for the duration of the Summer Session by their own provincial hospitilization plans provided their hospital premiums (where applicable) have been paid.

Preventive vaccinations and inoculations are given by the Health Service. The Medical Officers will be available by appointment for consultations with students on health problems arising during their attendance at summer session. The Health Service cannot assume responsibility for the treatment or investigation of pre-existing conditions, or for pre-employment medical examinations.

ON-CAMPUS HOUSING DURING SUMMER SESSION

General

Accommodation (room and board) is available in student residences for those attending Summer Session or Short Courses.

Inquiries and Reservations

Single Students

No prior assignment of single students is offered this year as in previous years, and reservations are not required. *They will be assigned accommodation by the Residence Clerk on arrival on a first-come, first-served basis.* Payment for accommodation should not be made in advance, but to the Residence Clerk on arrival. The area available is Place Vanier Residences. The Clerk's Office, located in Gordon Shrum Commons, is open 24 hours a day. Telephone: 224-3723

Married Students

Students attending the Session unaccompanied by wives or families will be assigned the same way as single students. The procedure for married students, accompanied by wives or families, will be *the same as in previous years,* i.e., application for accommodation must be submitted by using the

form available from the Office of Housing Administration. *Payment* for accommodation should not be made in advance but *to the Residence Clerk on arrival.*

Applications for accommodation by married students are received from Febuary 1 each year. Early application, addressed to The Office of Housing Administration, University of British Columbia, Vancouver 8, B.C., is advisable as they are processed on a first-come, first-served basis. Only properly completed applications are processed.

Notifications of accommodation reserved are mailed to applicants by June 1. Due to limited facilities we advise against bringing children. No pets are allowed in Residences.

Children

Children under 18 months are accepted free-of-charge if sharing room with parents and not requiring separate beds. A meal pass is not provided for them.

Cooking in rooms is not permitted.

Students taking a Short-Course

Students attending short courses are generally accommodated at Totem Park Residences on the daily conference rate. No assignment is necessary and payment is to be made on arrival to Totem Park Office.

Students attending various short courses may find the total daily rate for residence exceeds the rate for the full Summer Session. In such cases a Short Course student should consider himself as a Summer Session single or married person and proceed accordingly, i.e., obtain accommodation at Place Vanier from the Residence Clerk. There will not be any refund for non-occupation of reserved accommodation for the full Session or for meals not taken.

Areas Reserved for Summer Session and Short Courses

Place Vanier (formerly Lower Mall) Residences are reserved for Summer Session. There are now 10 houses available for students at Place Vanier, and it is considered that these will provide sufficient accommodation for all.

Rooms Available July 1 - August 16 Inclusive

Only room and board arrangements are available.

Students will be accommodated from July 1, 1969, in the evening and should vacate not later than 1:00 p.m., August 17, 1969.

Because of the limited number of double rooms, families may have to take two single rooms. In such cases the corresponding rate for single rooms must be paid.

Rates

Rates include room and board.

For individual students attending Summer Session:

Single Room	$151.80
Double Room - each person	142.60

For Families - adults and children over 18 months:

Single Room - each person	$151.80
Double Room - each person	142.60

Short Courses - daily rate at Totem Park:

Single Room	$11.00
Double Room	10.00

Meals

Meal passes, valid at Place Vanier Dining Hall only, from breakfast July 2 to dinner August 16 inclusive, will be given to resident Summer Session students, and families (including children over 18 months) on arrival by the Residence Clerk.

Passes for meals required prior to breakfast July 2, or after dinner August 16, may be purchased from the Residence Clerk at the daily rate - $3.30 a day.

Facilities

There are common washrooms on each floor of the Residences, and separation in areas occupied by families is made by designating alternate floors for men and women. Coin-operated washers and dryers and ironing boards are located in each building. Irons are not provided. There are pay telephones on each floor. Limited storage facilities are provided in the area. Rooms are furnished, but residents are asked to bring their own soap and towels. Canteen facilities (toiletries, cigarettes, soft drinks, etc.) are available in the area. Games equipment, T.V., tea kettles for lounges, may be obtained if a Residence Committee responsible for such is elected. The Residence Clerk will issue equipment to the Committee.

These Residences are designed for single students, and there are no playground facilities for children. Cribs are not available. Parents are to assume full responsibility for their children, their safety and for damage caused by them. No cooking is per-

mitted in the Residences, and no pets of any kind are allowed. Non-observance of these points may necessitate immediate withdrawal of a student or family from the Residence.

For further information write to the Office of Housing Administration or call 228-2811.

Car Parking

All cars parked in the University areas must carry a parking permit, obtainable from the University Traffic Patrol and Security Office, Wesbrook Crescent. Trailers of any kind are not permitted on the campus.

Private Accommodation Off Campus for Married Students

A list of accommodation offered for married people with or without children during the summer or for the duration of the Summer Session is available from the Alma Mater Society Office, Housing Co-ordinator, Student Union Building, The University of British Columbia, Vancouver 8. Telephone 228-2833. All arrangements must be made directly between the interested parties. The University does not act as agent for either contracting party.

TEACHER CERTIFICATION

All enquiries concerning certification must be directed to the Registrar, Department of Education, Victoria.

Early in 1968, the Minister of Education released a statement on new teacher certification policy for the province. The following comments, taken from that statement, appeared in the Administrative Circular dated March 29, 1968:

"There will be two types of permanent teaching certificates. These will establish the minimum permanent certificate to be granted and will not attempt to grade within the general classifications or to set upper limits. The first of the two certificates will be a Standard Teaching Certificate, awarded to those who have successfully completed an acceptable three-year programme beyond secondary school graduation and including both academic and professional studies. The second, the Professional Teaching Certificate, will be awarded to all applicants who have successfully completed an acceptable four or five-year programme of professional and academic studies normally culminating in a degree.

An innovation will be the Teaching Licence granted to an applicant who provides evidence of successful completion of an acceptable programme of academic and professional studies but who does not yet qualify for the Standard Certificate. This group will include teachers who at present would receive EB or EC certificates This licence will be valid for a four-year period only, although it may be renewable at the discretion of the licencing authority upon submission of evidence satisfactory to it."

Teachers possessing a Teaching Licence (or Elementary B or Elementary C certification issued under earlier regulations) should direct inquiries concerning requirements for higher teacher certification to the Registrar, Department of Education. Questions concerning degree requirements, however, must be made of the appropriate Faculty at the University. Attention is drawn to course requirement for the degree programmes as prescribed in the Calendar of the University. Faculty of Education students should refer to the Records Office, Faculty of Education, University of British Columbia and to materials on teacher certification and training prepared by that Office.

In summary, *providing acceptable professional training is included,* under current regulations teachers generally may qualify for the types of certificates noted below by completing the appropriate specified standing on a degree programme in the Faculty of Education:

Full Second Year	- Teaching Licence
Full Third Year	- Standard Certificate
Full Fourth Year	- Professional Certificate.

Teachers with an *acceptable* year of professional training may proceed to the Bachelor of Arts or other appropriate degree and normally qualify for certification as follows:

Full First Year	- Teaching Licence
Full Second Year	- Standard Certificate
Full Third Year	- Professional Certificate.

APPLICATION FOR TEACHER CERTIFICATION

It must be recognized that sole responsibility for teacher certification rests with the Department of Education in Victoria. Before a certificate can be changed, application must be made to the Department.

Since the type of certificate issued is dependent upon the standing within the University, the Department of Education requires evidence of such standing. A card is provided in the Registration materials on which to make application for a change in certification. This card will, at the conclusion of Summer Session, be forwarded to the Registrar of the Department of Education, Victoria, certifying as to the student's standing, together with transcripts where necessary. No further application is needed, either to the University or to the Department of Education.

This procedure will save the student, the University and the Department of Education needless duplication of correspondence.

I. SUMMER SESSION TEACHER TRAINING PROGRAMME FOR HOME ECONOMICS GRADUATES.

(Certificated teachers lacking a Bachelor of Home Economics degree and wishing to teach Home Economics, see II below).

Home Economics graduates are advised to take the regular winter session basic teacher training course for graduates, rather than the summer session programme, wherever possible.

Persons holding an acceptable Bachelor of Home Economics degree may complete teacher-training for the Professional Certificate through three summer sessions of prescribed work totalling 18 units. All work must be completed *in residence through summer session.* Extra-sessional courses may not be credited. Those enrolling for their first summer session of work in 1969 are expected to complete the second and third summers in 1970 and 1971.

1. **Home Economics graduates enrolling for the first summer session are required to take the following courses:**
   - (a) Education 404 - Curriculum and Instruction (Home Economics) 3 units
   - (b) Education 410 - The Organization and Administration of B.C. Schools 1 ½ units
   - (c) Education 435 - Introduction to Evaluation 1 ½ units

2. **Home Economics graduates who have completed one summer session of the required courses should enrol for their second session in the following courses:**
   - (a) Education 400 or 430 or 470 (if not completed previously) 3 units

   and

   - (b) One of the following:
     Education 332 - Psychology of Adolescence 3 units
     Education 411 - Foundations of Vocational Planning 3 units
     Education 412 - Introduction to Adult Education 3 units
     Education 416 - Speech Education 3 units

   (if not completed previously)

3. **Home Economics graduates who have completed two summer sessions of the required courses should enrol for their third summer session in the following courses:**
   - (a) Education 400 or 430 or 4703 units

   (if not completed previously) a

   - (b) One of the following:
     Education 332, 411, 412, 416 3 units

   (if not completed previously)

Graduates should register for the courses prescribed for their respective summer programmes.

II. CERTIFICATED TEACHERS WISHING TO TEACH HOME ECONOMICS

The following Summer Session courses will be available in 1969 for prospective teachers in Home Economics holding valid B.C. teacher certification (Teaching Licence or Standard Certificate or their equivalents under former regulations):

Home Economics 201	3 units
Home Economics 360	3 units
Home Economics 362	
Home Economics 220	3 units
Home Economics 420	
Education 404 (Home Economics)	3 units

It is desirable that a number of courses in Home Economics be completed before undertaking Ed. 404. Only in especially considered cases may a teacher enrol for Ed. 404 concurrently with 3 units of Home Economics in her first summer. Consult the Director of the School of Home Economics for such permission.

1. Teachers holding valid certification who wish to train to teach Home Economics should start on a concentration in Home Economics—Bachelor of Education (Secondary Field) programme—by enrolling in six units of Home Economics courses listed above.
2. Teachers with valid certification who already have taken some of the Home Economics courses listed toward their concentration in Home Economics, but have not taken Ed. 404, should choose Ed. 404 plus three units of Home Economics content not taken previously.
3. Teachers who have completed Ed. 404 and all but one of the Home Economics courses listed, should consult the Records Office of the Faculty of Education as to which other course(s) to take on their Bachelor of Education programme.

It is preferable that students avoid enrolling in two Home Economics laboratory courses concurrently.

In order that teachers starting on a three-year summer session programme may plan their selection of courses, the probable offerings for 1970 are as follows:

H.E. 203, 205
202, 210, 310
340, 342
Ed. 404 (H.E.)

SPECIAL NOTE FOR PHYSICAL EDUCATION TEACHERS-IN-TRAINING

Training programmes offered for teachers of Physical Education:

1. Bachelor of Physical Education degree and a one-year teacher training programme.
2. Bachelor of Education degree, either Secondary or Elementary with major in Physical Education.

Students are advised to consult the regular Winter Session calendar to ensure that the courses chosen conform to the regulations stated therein.

Courses of Study

To assist students in planning programmes each course title includes a code letter. This letter indicates the probability of future offerings.

Code

A. Proposed for this summer and next.
B. Proposed for alternate years.
C. Proposed for this summer— future offerings indefinite.

Courses not offered in 1969 but considered for 1970 or 1971 are listed under Departments.

The University reserves the right to limit attendance, and to limit the registration in, or to cancel, any of the courses listed.

Text books are not shown in the calendar. Students may contact the University Book Store before commencement of the Summer Session in order to obtain the names of text books.

ANTHROPOLOGY

300. Social Organization. (B)

The structure and organization of society; the individual and society; kinship; the social frame of economy, religion and art; social control and political institutions.

Ten hours lectures a week—3 units.

Dr. M. Orans

301. Indians of British Columbia. (C)

A lecture courses which surveys the native cultures of British Columbia and considers some ethnological problems of the Northwest Coast, Plateau, and Sub-arctic culture areas. Attention is also given to Northwest Coast Indian art and to backgrounds of current Indian affairs.

Pre-reading required: Drucker, Philip, Cultures of the North Pacific Coast, Chandler Publishing Company, 1965.

Ten hours lectures a week—3 units.

Dr. B. Lane

ASIAN STUDIES

320. History of Chinese Civilization. (B)

A survey of Chinese history and culture from ancient times to 1840.

Ten hours lectures a week—3 units.

Dr. J. J. Gerson

BIOLOGY

101. Principles of Biology. (A)

An introductory course emphasizing principles of wide application to all living organisms, including cell structure and function, the mechanism of inheritance, evolution, and adaptation to environment. A comparative approach to the unity and diversity of organisms will be stressed. A one-hour tutorial is required each week.

Prerequisite: Biology 91 or 11 or equivalent recommended.

Limited to 48 students.

Eight hours lectures, one hour tutorial and twelve hours laboratory a week—3 units.

Dr. B. R. Green.

335. Fundamental Genetics. (B)

An introduction to the basic principles of heredity, with emphasis on the physical and chemical structure and function of genetic material.

Prerequisite: Biology 101 or its equivalent.

Ten hours lectures and ten hours laboratory a week—3 units.

Dr. J. Lucchesi

BOTANY

330. Plant Physiology. (B)

Introduction to physiological processes in plants: plant hormones, growth, flowering, ion uptake, nutrition, water absorption and loss, translocation, photosynthesis, respiration, biosynthesis. Chemistry 230 is recommended but not a prerequisite.

Eight hours lectures and six hours laboratory a week—3 units.

Dr. D. J. Wort

CHEMISTRY

103. General Chemistry. (A)

A study of the fundamental principles of chemistry including the molecular structures of both inorganic and organic compounds.

Prerequisite: Physics 11 (or Physics 130 concurrently); Mathematics 120 (or 110) must precede or be taken concurrently.

Ten hours lectures and twelve hours laboratory a week—3 units.

Dr. D. C. Frost

230. Organic Chemistry (previously 300). (A)

Fundamental principles of modern organic chemistry including a discussion of the main classes of organic compounds.

Prerequisites: Chemistry 101, 102, 103, 110 or 120.

Ten hours lectures and nine hours laboratory a week—3 units.

Dr. T. Money and Dr. E. Piers

NOTE: Credit will not be given for both 203 and 230.

409. Advanced Organic Chemistry. (C)

Synthetic methods, alicyclic and heterocyclic chemistry, natural products. Laboratory work: qualitative organic analysis and techniques of organic synthesis.

Prerequisite: Chemistry 230 (or Chemistry 203).

Ten hours lectures and twelve hours laboratory a week—3 units.

Dr. G. G. S. Dutton and Dr. L. D. Hall

CLASSICAL STUDIES

331. Ancient History. (A)

The rise of the Greek city-states; special emphasis on the political, economic, and cultural achievements of the fifth and fourth centuries B.C.; the growth of Rome and the development of her political institutions during the Republic; the social and economic history of the Empire; the transition from the classical to the mediaeval world.

May be accepted for credit in History, Latin or Greek majors.

Pre-reading recommended: Penguin Classics: Thudydides; Herodotus; Tacitus; Plutarch; The Rise and Fall of Athens and Fall of the Roman Republic; Livy; Kitto, The Greeks (Penguin).

Ten hours lectures a week—3 units.

Dr. D. W. Bradeen

333. The Roman Empire. (C)

A detailed study of Roman imperial history from 30 B.C. to the end of the fourth century. A conspectus of the political theory and practice of the classical Greek world and of the Roman Republic. Attention will be directed to the development of Christianity and to the problem of Church and State.

Prerequisite: Classical Studies 331 or permission.

Ten hours lectures a week—3 units.

COMMERCE

110. Probability and Statistics. (B)

Descriptive statistics, probability in finite sample spaces, random variables and probability distributions, including binomial, Poisson, and hypergeometric. Value calculations. Elementary decision theory. Sampling distributions, normal distributions. Estimation, tests of hypotheses. Elementary correlation and regression. Applications to business problems.

This course replaces Mathematics 211 and 212.

Ten hours lectures a week—3 units.

Mr. C. A. Prentice

151. Fundamentals of Accounting. (A)

The analysis and communication of financial events and an examination of the accounting postulates underlying the preparation and presentation of financial statements.

Students registering for Commerce 151/190 are strongly advised not to attempt any additional course.

(MUST BE TAKEN CONCURRENTLY WITH COMMERCE 190).

Five hours lectures a week—1½ units.

Dr. B. E. Burke

190. Fundamentals of Business. (A)

Introduction to the basic concepts and techniques of business functions and organization.

(MUST BE TAKEN CONCURRENTLY WITH COMMERCE 151).

Five hours lectures a week—1½ units.

Dr. B. E. Burke

307. Urban Land Economics. (C)

Economic characteristics of urban real estate market; nature of urban land use; city growth and develop-

ment; locational factors in determination of land use; types of interest in land; government regulations affecting land ownership.

Pre-reading required: All of Ratcliff, R. V. Real Estate Analysis, McGrew-Hill, 1961 (This is the text for the course).

Ten hours lectures a week, July 23-August 15—1½ units.

Dr. M. A. Goldberg

323. Introduction to Administrative Studies. (For Graduate Students only). (C)

A study of complex organizations and administration; administrative control; communications systems and networks; centralization and decentralization; administrative goals and conflict; decision-making; group dynamics.

Limited to 25 students.

Five hours lectures a week alternate days with Commerce 361—1½ units.

Dr. V. F. Mitchell

352. Managerial Accounting. (For Graduate Students only). (C)

The use of figure data in making decisions and in appraising actual operating results of business enterprises. The course will include a study of fundamental accounting postulates, as applied in financial accounting, cost accounting, and budgeting.

Ten hours lectures a week—3 units.

Mr. R. E. G. Nicol

356. Accounting Systems. (C)

The installation and operation of accounting systems in business organizations.

Limited to 25 students.

Ten hours lectures a week, July 2-July 22 inclusive—1½ units.

Dr. H. Will

361. Merchandising and Distribution. (For Graduate students only). (C)

A study of the methods used in the marketing of goods and services. Problems in merchandising, selection of channels of distribution, sales promotion, and pricing.

Limited to 25 students.

Five hours lectures a week alternate days with Commerce 323—1½ units.

Dr. J. D. Forbes

362. Management of Promotion. (C)

An analysis of buyer behaviour; planning, controlling, and coordination of the promotional functions of the firm.

Ten hours lectures a week, July 2-July 22 inclusive—1½ units.

Dr. F. A. Webster

373. Business Finance. (For Graduate students only). (C)

Types of business organization; problems of financing; provision of short-term and long-term capital; expansion and combination; public policy.

Five hours lectures a week—1½ units.

Mr. A. H. Anderson

376. Personal and Business Finance. (A)

An examination of the instruments of business and personal finance and a study of the methods of presenting these topics to high school students. Forms and instruments of business finance, life insurance, banking, investments, general insurance, real estate. Special project assignments. Field trips.

For credit only on B.Ed. (Sec.) and B. Com. (Teaching Option).

Ten hours lectures a week—3 units.

Mr. R. H. Heywood

COMPUTER SCIENCE

210. Algorithms and Programming. (C)

An introduction to the structure and use of digital computers. Binary number systems, machine organization, fundamentals of assembly language programming, complete description of an algebraic programming language. Applications to problems in elementary number theory, sorting, statistics, numerical methods, and simulation.

Prerequisite: Mathematics 113 (Grade 13), or 120.

Ten hours lectures and three hours laboratory a week—3 units.

Mr. J. L. Leigh

CREATIVE WRITING

201. Prose Techniques. (A)

Designed for beginning writers, including First Year students. Familiar essay, column, character sketch, vignette, short-story and the dramatic

skit. Instruction is carried on in the workshops and through individual instruction. Admission to the course is by permission of the instructor. Applicants should send in manuscripts to the Department for evaluation before registering.

Pre-reading required: Contemporary Literature in Translation. Prism International

Limited to 20 students.

Ten hours lectures a week—3 units.

Mr. J. M. Yates

ECONOMICS

200. Principles of Economics. (A)

The institutions and processes involved in the production and distribution of wealth; basic determinants of prices and costs, the determinants of income and employment; international trade.

Prerequisite: First Year standing.

Pre-reading required: Samuelson/Scott, Economics, Canadian edition, Chapters 1-10.

Ten hours lectures a week—3 units.

300. Intermediate Economic Analysis. (A)

Theory of consumer demand; production theory; equilibrium of the firm; study of market structures; monopoly, monopolistic competition and oligopoly. The social accounts, income and employment theory; economic fluctuations; economic growth.

Prerequisite: Economics 200.

Pre-reading recommended: Samuelson/Scott, Economics, Canadian edition, Parts 1-4.

Ten hours lectures a week—3 units.

304. Principles of Statistics. (B)

Sources and presentation of data; measures of central tendency, dispersion, skewness and kurtosis; probability; sampling theory; estimation and tests of hypotheses; decision theory; simple regression and correlation analysis; Fortran programming; index numbers; analysis of classical time-series.

Prerequisite: Mathematics 110 or 120 and Economics 200, or permission of the Instructor.

Pre-reading required: Yamane, T., Statistics, An Introductory Analysis, Chapters 1-5 inclusive.

Ten hours lectures and ten hours laboratory—3 units.

310. Government Finance. (C)

Role of government. Theories of justice in taxation. Characteristics of a good system of taxation. Governmental expenditures. Governmental revenues, with emphasis on income and property taxes and succession duties. Dominion-Provincial-Municipal financial relations. Government borrowing and fiscal policy.

Prerequisite: Economics 200.

Pre-reading recommended: James Buchanan, The Public Finances, Revised Edition.

Ten hours lectures a week—3 units.

535. Special Advanced Course. (C)

By arrangement with the Department to meet the needs of students who require (additional) work in a special field.

Eight hours lectures a week—3 units.

EDUCATION

305. Art Education. (A)

A study of the growth and development of art education; discussion and use of various art media; the function and purpose of art in school and society; practical studio activities; modern methods and curricula in art education.

Limited to 25 students, preference to students with major in Art.

Prerequisite: Ed. 205 or equivalent.

Pre-reading required: F. Wachowiak and T. Ramsay, Emphasis: Art, pp. 1-33; E. W. Linderman and D. W. Herberholz, Developing Artistic and Perceptual Awareness, pp. 1-22, 47-66.

Ten hours lectures and ten hours laboratory a week—3 units.

307. Music Education. (A)

A study of modern methods, materials, objectives, and philosophy pertaining to the teaching of music in elementary schools.

Prerequisite: Education 207 or Normal School Diploma.

Ten hours lectures a week—3 units.

Mr. S. E. McKyes and Mr. T. Goldberg

308. Physical Education. (A)

Theory and practice of dance, games and gymnastics for the elementary school. This course is not a part of a major in physical education.

Prerequisite: Education 209.

Limited to 30 students each section.
Ten hours lectures a week—3 units.

Dr. J. R. Mitchell and Dr. N. S. Watt

309. General Science for Elementary and Secondary School Teachers.

Ten hours lectures a week—3 units.

Mr. Brough, Mrs. Mary Forster, Mr. W. A. Krayenoff, Miss Audrey Linnes, Mr. J. A. Rowell, and Mrs. Janie Woodrow

331. Human Development.

Consideration of the interaction of genetic and environmental factors as they influence personality, acquisition of language, motor, social and cognitive learning with implications for the organization, administration, and teaching in schools for young children.

Limited to 40 students.

Ten hours lectures a week—3 units.

Mrs. Grace Bredin, Mrs. Dorothy Rizer, Mrs. Mary Thomson

332. Psychology of Adolescence. (A)

The physiological, psychological, social and educational aspects of adolescence. Review of research.

Ten hours lectures a week—3 units.

Dr. O. A. Oldridge, Dr. D. E. Allison, Dr. L. L. Walters, Dr. A. J. More

333. Curriculum and Instruction in Education for Young Children. (A)

Limited to 40 students.

(Nursery schools and Kindergartens)

Planning and developing an educational programme for young children, consideration being given to learning experiences, resources, materials, teaching, and guidance procedures. Laboratory experiences in the Child Study Centre and observation in field settings are included.

Ten hours lectures and six hours laboratory a week—3 units.

Observation alternates with seminar. Students should not register for any other course in the morning.

Miss Emma E. Harris

336. Modern Theories of Education for Young Children. (B)

A critical examination of the resources and impacts which are reflected in present educational practice.

Ten hours lectures a week—3 units.

Mrs. Alice Borden

375. Office Organization and Secretarial Practice. (B)

Office organization, planning and production problems; educational requirements; personnel practices; records management; reports and correspondence; changes resulting from introduction of new equipment; the development of advanced typewriting, shorthand, and transcription skills; field trips.

Limited to 30 students.

Ten hours lectures and field trips, five hours laboratory—3 units.

Mrs. S. E. Cameron and Miss F. V. Brown

390. The Library in the School. (A)

The objectives, functions and administration of libraries in elementary and secondary schools.

Limited to 40 students each section.

Ten hours lectures a week—3 units.

Mrs. M. Coggin and Miss J. Curley

400. Philosophy of Education. (A)

An introductory course in which consideration is given to the philosophical foundations of education and to the practical bearings of theory upon curriculum content and classroom practice in our schools.

Pre-reading recommended: John Wilson, Thinking with Concepts.

Ten hours lectures a week—3 units.

Dr. L. B. Daniels, Dr. J. R. Coombs, Dr. Joseph Burnett, Dr. M. Elliott

403. Mental Retardation. (B)

Characteristics of mentally retarded children: classification; overview of medical, legal, educational, and social provisions for the mentally retarded.

Pre-reading recommended: Robinson & Robinson, *The Mentally Retarded,* McGraw Hill, 1965.

Ten hours lectures a week—July 2-22 1½ units.

Mr. R. M. Poutt

404. Curriculum and Instruction in Specific Secondary School Subjects.

All courses in this area include, for the particular subject under discussion, a consideration of the objectives, the scope and content of the curriculum, the learning process applied to the particular subject, together with methods of presentation, and the materials of instruction. Consideration will also be given to evaluation of pupil progress, and diagnosis of and remedy for individual and group difficulties.

Minimum prerequisite to any curriculum and instruction course is completion of one senior course of the major. A second course of the major must be undertaken concurrently.

Be sure to indicate the individual subject on course card.

English, English methods for the Secondary School. (A)

Prerequisite: Three senior courses in English.

Pre-reading required: B.C. Programme of Studies for English in secondary schools; Scargill, Penner, Looking at Language (a Grade 11 text); Green, I Never Promised You a Rose Garden; Thompson, Theatre Today; Homer, The Iliad.

Pre-reading recommended: Guth, English Today and Tomorrow, Prentice Hall; recommended texts, Grades 8-12.

Ten hours lectures a week, July 2-July 22 inclusive—1½ units.

Mr. F. E. Bertram

French. (B)

Limited to students who have completed with satisfactory standing a reasonable proportion of the senior courses for a French concentration or major.

Pre-reading required: B.C. Programme of Studies for French in secondary grades, 1967, 1968.

Ten hours lectures a week, July 2-July 22 inclusive—1½ units.

Miss S. M. Boyles

Geography and Social Studies.(A)

Limited to 40 students.

(Reading list available from the Chairman, Department of Social Studies, Faculty of Education.

Ten hours lectures a week, July 23-August 15—1½ units.

Social Studies Staff and Special Lecturers

Guidance. (B)

Limited to 25 students.

Pre-reading required: Gordon, T., Group-centered Leadership; Raths, Louis E., Harmin, M., Simon, S., Values and Teaching.

Ten hours lectures a week, July 2-July 22 inclusive—1½ units.

Mrs. E. Lamb

History and Social Studies. (A)

Limited to 40 students.

(Reading list available from the Chairman. Department of Social Studies, Faculty of Education.

Ten hours lectures a week, July 2-July 22 inclusive—1½ units.

Social Studies Staff and Special Lecturers

Home Economics. (A)

Curriculum and Instruction, two sections.

Limited to 15 students in each section.

Please be sure to report to the appropriate laboratory section on the first day. Laboratories for this course are also divided into 2 sections. Be sure to indicate the section and check the timetable before registering for a second course.

Six hours lectures, one hour discussion, and ten hours laboratory each section a week—3 units.

Miss Sharon West

Physical Education. (B)

Limited to 30 students.

Ten hours lectures a week, July 2-July 22 inclusive—1½ units.

405. Curriculum and Instruction in the Primary Grades. (A)

Limited to 40 students.

Pre-reading recommended: Harold G. Shane and June Mulry, *Improving Language. Arts* Instruction through Research; Logan and Logan, *A Dynamic Approach to Language Arts.*

Ten hours lectures a week—3 units.

Miss Joyce McRae

407. Introduction to the Study of Exceptional Children. (A)

A course covering all groups of ex-

ceptional children in diagnosis, classification, treatment.

Pre-reading recommended: L. M. Dunn, *Exceptional Children in The Schools.*

Ten hours lectures a week—3 units.

Dr. B. Clarke

409. Science Education. (B)

Advanced techniques of demonstration. Collecting and preserving of materials. Study of the research in elementary science teaching and comparative curricula. Practice teaching will be an integral part of the course.

Prerequisites: Two first year science courses, Education 201 (or equivalent). Education 309 must be taken prior to or concurrently.

Ten hours lectures a week—3 units.

Dr. G. H. Cannon, Dr. D. C. Gillespie

410. The British Columbia School System.

For Home Economics and Industrial Education students only.

Five hours lectures a week July 23-August 15—1½ units.

412. Introduction to Adult Education. (A)

Survey of present programmes for adult education including study of methods, institutions, and conditions under which it has developed in modern society.

Pre-reading: Kidd, J. R., How Adults Learn; Kidd, J. R., Learning and Society.

Ten hours lectures a week—3 units.

Dr. J. A. Niemi

414. Audio-Visual Education. (A)

The role of the teacher in communication, the study of various materials related to learning, and the sources, selection, effective utilization and evaluation of these materials.

Limited to 30 students.

A $5.00 laboratory fee is charged by the department for materials used in production projects to be retained by students.

Ten hours lectures a week—3 units.

416. Speech Education. (A)

Characteristics and standards of good speech; self-evaluation; the physiology and mechanics of good voice production; means of preventing voice fatigue; guided practice aimed at increasing ability to speak effectively in a variety of speech situations.

Limited to 20 students.

Ten hours lectures a week—3 units.

Dr. I. R. Shaw

417. Educating the Slow Learner. (B)

An examination of techniques for identifying and educating the slow learning and culturally disadvantaged child in the elementary school, (I.Q. 75-90).

Prerequisite: Education 403.

Pre-reading recommended: Bloom, Davis, Hess, *Compensatory Education for Cultural Deprivation,* Holt Rinehart 1965; Taba, Elkins, *Teaching Strategies for the Culturally Disadvantaged,* Rand McNally, 1966.

Five hours lectures a week, July 23-August 15—1½ units.

Mr. R. M. Poutt

419. Introduction to Speech Correction. (A)

A survey of the speech defects of children to make the teacher aware of the problems and to acquaint him with some basic skills for dealing with speech problems.

Ten hours lectures a week—3 units.

Miss D. M. Washington

426. Personnel Services in the School. (A)

The development of personnel or guidance services in school systems; their theoretical bases; the functions and roles of the specialists, including teachers and counsellors.

Ten hours lectures a week—1½ units.

Dr. J. D. Friesen

427. Guidance: Planning and Decision-making. (A)

The work of the beginning counsellor and guidance worker is assisting students with educational, vocational, and personal planning and decision-making.

Ten hours lectures a week—1½ units.

Dr. J. D. Friesen

430. History of Education. (A)

Development of educational theory and practice from the time of ancient Greece to the present day.

Limited to 50 students per section.

Pre-reading recommended: Robert

H. Beck, *A Social History of Education.* (Englewood Cliffs, N.J., Prentice-Hall, 1956) paperback.

Ten hours lectures a week—3 units.

Dr. J. Dahlie, Mr. Mowat, Mr. Smith

431. Primary Learning Disabilities. (B)

The identification and assessment of basic motor, perceptual, and language disabilities in children. To be followed by Behaviour Disorders in Children (Education 436).

Five hours a week, July 2-22—1½ units.

Dr. M. S. Rabinovitch

436. Behaviour Disorders in Children. (B)

An introductory course dealing with identification, classification, and aetiology of emotional disturbance and social maladjustment in children. This course follows Primary Learning Disabilities (Education 431).

Five hours a week, July 25-August 15—1½ units.

Dr. M. S. Rabinovitch

460. An Introduction to Educational Administration. (A)

Historical, social and conceptual views of administration, administrative theory, purposes, functions and tasks.

Limited to 40 students.

Ten hours lectures a week—3 units.

470. Educational Sociology. (A)

Social organization, culture, and communities. The school as a social institution. Social stratification, and sub-cultures. Socialization, educability, motivation. Educational opportunity. Roles and status of the teacher. Professional and social policy implications.

Limited to 50 students.

Pre-reading required: Hans L. Zetterberg, *Social Theory and Social Practice.* Pre-reading recommended: Havighurst & Newgarten, *Society of Education.*

Ten hours lectures a week—3 units.

Dr. R. G. Jones

472/473. Developmental Reading. (Elementary students only).

472. Theoretical.

Psychological, sociological, and sensory bases and learning processes of reading. Students registering for Ed. 472 must at the same time register for Ed. 473.

Limited to 50 students per section.

Ten hours lectures a week, July 2-July 22 inclusive—1½ units.

Mr. K. Slade

473. Practical Elementary Grades.

Basic skill, reading in the subject fields, materials, tests, classroom organization, remedial reading in the regular classroom. Students registering for Ed. 473 must at the same time register for Ed. 472.

Limited to 50 students per section.

Ten hours lectures a week, July 23-August 15—1½ units.

Mr. K. Slade

472/474. Developmental Reading. (Secondary students only).

472. Theoretical. (as above)

474. Practical, Secondary Grades.

Content as for Ed. 473 except at secondary school and adult levels. Students registering for Ed. 474 must at the same time register for Ed. 472.

Limited to 50 students.

Ten hours lectures a week, July 23-August 15—1½ units.

475/476. Remedial Reading.

475. Theoretical. (A)

Identification of retarded readers; diagnosis and treatment of disabilities in reading. Students registering for this course must at the same time register for Ed. 476.

Prerequisite: Ed. 472 and 473 or Ed. 472 and 474 or equivalent.

Limited to 20 students.

Ten hours lectures a week, July 2-July 22, inclusive—1½ units.

476. Practical, General Problems. (A)

Organization of the special remedial reading classroom; selection of materials; practice teaching in remedial classes.

Prerequisite: Ed. 475.

Limited to 20 students.

Ten hours lectures a week, July 23-August 15, inclusive—1½ units.

481. Introduction to Education Research. (A)

Five hours lectures and one hour laboratory a week—1½ units.

Dr. H. L. Stein

482. Educational Statistics. (A)

An introduction to Statistical Theory with special reference to problems in Education.

Five hours lectures and one hour laboratory a week—1½ units.

Dr. H. L. Stein

491. The Acquisition and Organization of Library Materials. (A)

The principles and methods of acquiring, classifying, cataloguing and organizing book and non-book materials.

Limited to 25 students, each section.

NOTE: For laboratory work the student will find useful his own copy of Sears List of Subject Headings; 9th ed.

Ten hours lectures a week—3 units.

492. The School Library: Sources of Information. (B)

A basic course in the use of books and libraries with special emphasis upon the resources and methods for locating educational information.

Limited to 40 students.

Ten hours lectures a week—3 units.

Mr. E. Albrecht

508. Review of Research in Methods of Teaching Specific School Subjects.

Three units will be given for each course in an individual subject. No more than 6 units may be credited towards a Master's degree. Each course reviews the philosophy, purpose and function of the subject in school. Studies are made of recent research on curriculum organization, on particular methods of teaching, on the use of material aids, on factual comprehension and attitude testing.

Prerequisite: Education 204 or 404.

Be sure to indicate the individual subject on course card.

Music. (B)

Research in Music Education.

Prerequisite: Education 404 (Music) or equivalent.

Ten hours lectures a week—3 units.

Mr. J. Sandvoss

Reading. (B)

Research in Reading Education.

Prerequisite: Education 404 (Reading) or equivalent.

Limited to 12 students (consent of instructor.)

Ten hours lectures a week—3 units.

Dr. J. M. Chronister

Social Studies. (A)

Research in Social Studies.

Prerequisite: Education 404 (Social Studies) or equivalent.

Ten hours lectures a week—3 units.

Social Studies Staff and Special Lecturers

511. Seminar in Science Education.

Prerequisite: Consent of Instructor.

Ten hours lectures a week—3 units.

Dr. Boldt

523. Comparative Education. (B)

Comparative analysis of the social, economic, and political determinants of the organization and administration of selected foreign educational systems.

Prerequisite: At least one of: Education 400, 432, or 470.

Pre-reading: Current articles in Educational Journals on Education in England, Sweden, USSR, France, U.S.A. and Canada.

Ten hours lectures a week—3 units.

Dr. G. Read

525. Social History of American Education.

The interrelationship of education and social developments in the U.S.A. from the colonial period to the present.

Prerequisite: One of a senior history course, Education 400, 430 or 470.

Ten hours lectures a week—3 units.

Mr. Sutherland

530. Psychology of Learning. (B)

A graduate course in human learning which includes such topics as: (a) basic forms of learning—conditioning, generalization, and discrimination; (b) verbal learning and motor skill—acquisition, retention, and transfer; (c) conceptual learning—acquisition and transfer; and (d) implications for educational application. Some laboratory experience will be acquired.

Pre-reading required: Deese, J. and Hulse, S. H., The Psychology of

Learning, Third Edition. New York: McGraw-Hill, 1967, pp. 515.

Pre-reading recommended: Gagne, R. M., The Conditions of Learning. New York: Holt, 1965.

Ten hours lectures and two hours laboratory per week—3 units.

Dr. S. S. Lee

531. (A)

The interview and non-standardized measures in guidance services. Theoretical assumptions in the use of non-standardized appraisal techniques: interviews, observation techniques, rating scales, cumulative records, autobiographies, and sociometric procedures. Case studies.

Pre-reading required: Axline, Virginia. Dibs in Search of Self. Sohl, Jerry. The Lemon Eaters. Brown, Claud. Manchild in the Promised Land.

Pre-reading recommended: Gibson and Higgins. Techniques of Guidance.

Ten hours lectures a week, July 2-July 22, inclusive—1½ units.

Dr. M. B. Nevison

535. Evaluation. (A)

Basic principles; tests and other instruments for measuring instruction.

Prerequisite: Education 435 (Introduction to Evaluation) or 301 (Learning and Evaluation).

Ten hours lectures a week—3 units.

Dr. S. S. Blank

536. Individual Tests. (A)

Administration, scoring, interpreting, and values of Revised Stanford Binet, Wechsler-Bellevue, etc.; nature of intelligence; constancy of the IQ, etc.

Limited to 10 students.

Ten hours lectures a week—3 units.

Dr. P. Koopman

539. Educational Television. (B)

An extensive study of the theory, practice, and evaluation of educational television, based on research.

Limited to 20 students.

Prerequisite: Education 414 or consent of staff.

Ten hours lectures a week—3 units.

Students are asked to make available two hours of time during the day for studio-laboratory production outside the lecture hours.

Mr. B. R. Whitinger

552. Basic Contributions to Administrative Thought. (A)

Limited to 20 students.

Ten hours lectures a week—3 units.

Dr. R. J. Hills

556. Administration of the Educational Programme. (A)

Note: This course is offered during the first half of the Session and should be followed by either Ed. 557 or 558.

Limited to 40 students.

Ten hours lectures a week, July 2-22 inclusive—1½ units.

557. Administration of the Elementary School. (A)

Note: This course is offered during the second half of the Session. It should follow Ed. 556.

Limited to 40 students.

Prerequisite: Education 556.

Ten hours lectures a week, July 23-August 15 inclusive—1½ units.

558. Administration of the Secondary School. (A)

Note: This course is offered during the second half of the Session. It should follow Education 556.

Limited to 40 students.

Prerequisite: Education 556.

Ten hours lectures a week, July 23-August 15 inclusive—1½ units.

565. Special Course in a Subject Matter Field.

Courses in various subject matter fields designed to bring teachers up to date in new advances and recent findings in each field.

For credit only in the Faculty of Education.

Be sure to indicate the individual subject on course card.

Commerce. (C)

Limited to 20 students.

First preference to students enrolled in the Faculty of Graduate Studies. Other graduates admitted as space permits.

Ten hours lectures a week—3 units.

Dr. H. Will

Mathematics. (B)

Concerned with digital computer

programming (machine, symbolic, and problem-oriented languages); integrating computer science into the secondary school mathematics programmes; examination of existing computer science programmes; field trips to computer centres (IBM, UNIVAC, GE, etc.)

Ten hours lectures a week—3 units.

Mr. Yasui

569. The Regional, Junior or Community College. (B)

History and philosophy of the junior college. Studies of the theoretical bases for its establishment. Organization, finance, personnel and curriculum. Field trip will be arranged.

Prerequisite: Consent of instructor.

Pre-reading recommended: One of Thornton, J. W. The Community Junior College, Medsker, Leland, The Junior College or Fields, R. H., The Community College Movement.

Limited to 25 students.

Ten hours lectures a week—3 units.

Dr. J. D. Dennison

576. Advanced Seminar in the Supervision of Instruction.

For Superintendents, Principals, Directors of Education and other Supervisory Personnel desiring advanced study in this area.

Limited to 30 students.

Prerequisite: Consent of Division.

Ten hours lectures a week—3 units.

Dr. H. Dyck

578. Counselling Theory and Procedures I. (A)

Theories and procedures for counselling all individuals in their development decisions and tasks; ethical and legal implications; the counselor's consultant role.

Pre-reading required: Bloecher, D. Developmental Counselling. Truax and Carkbuff. Toward Effective Counselling and Psychotherapy.

Ten hours lectures a week, July 23-August 15—1½ units.

Dr. M. B. Nevison

582. Statistics in Educational Research I. (B)

Advanced techniques in description and prediction; inferential statistics, including non-parametric techniques and analysis of variance and covavariance.

Prerequisite: Education 482 or Old 582 or consent of instructor.

Pre-reading required: Some acquaintance with Chapters 1 through 11, 15, 17 of Hays, W. L., Statistics for Psychologists, Holt Rinehart (preferably) OR Chapters 1 through 13, Ferguson, G. A., Statistical Analysis in Psychology and Education, 2nd Edition, McGraw-Hill.

Ten hours lectures plus laboratory sessions to be arranged—3 units.

Dr. D. McKie

591. Epistemological Foundations of the Curriculum. (B)

An inquiry into the nature and organization of knowledge. Implications for curriculum construction and classroom teaching.

Prerequisites: Ed. 400 or a senior level philosophy course, or consent of instructor.

Ten hours lectures a week—3 units.

INDUSTRIAL EDUCATION

354. Oxy-Acetylene and Arc Welding. (A)

(a) Oxy-Acetylene Welding: fusion welding mild steel, flamecutting, welding mild steel pipe, testing and inspection of welds, hard facing, bronze welding, silver alloy brasing, welding cast iron and aluminum.

(b) Arc Welding: practice in the common type of welds, penetration cutting, hard facing, bronze welding.

Limited to 15 students per section.

Prerequisite: Education 351.

Section 1: 8:00 a.m. - 12:00 noon, July 2-July 23.

Section 2: 1:00 p.m. - 5:00 p.m., July 24-August 15.

Division of Industrial Education.

Four hours lectures and six hours laboratory per section, a week—1½ units

Mr. T. Held

355. Electricity in Industrial Education II. (A)

Single and polyphase circuit analysis; alternating current machinery and controls; generation and distribution of electrical energy.

Limited to 18 students.

Prerequisite: Education 230.

UBC

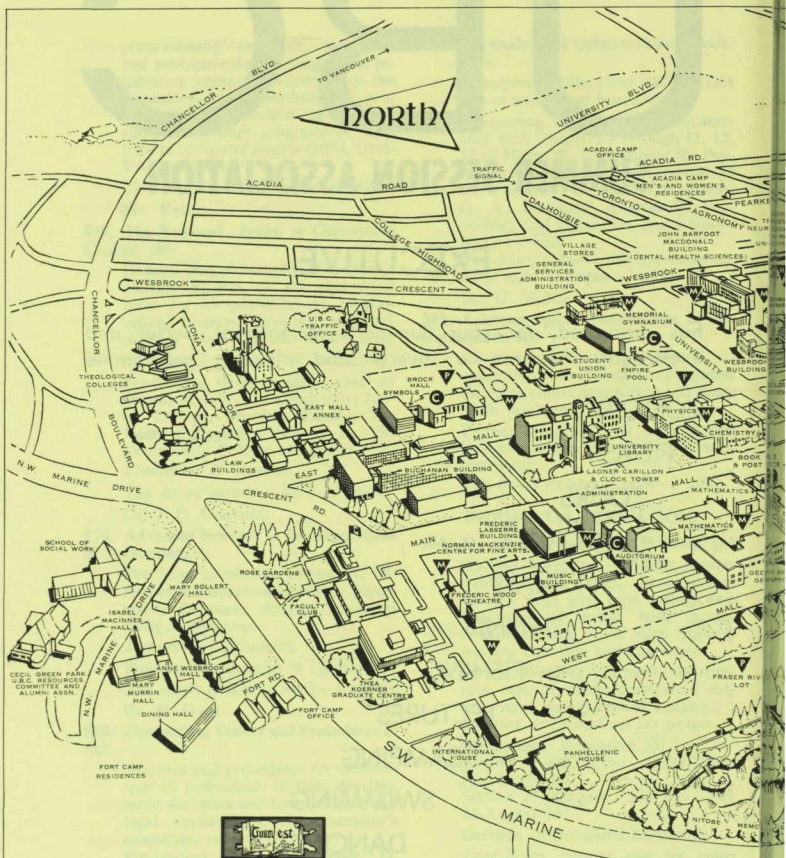
SUMMER SESSION ASSOCIATION

EXECUTIVE

has organized, for your Summer's recreational, social and intellectual pleasures, a diverse and pleasing programme

CONCERTS
FILMS
TOURS
HIKING
RIDING
TENNIS
FISHING
LECTURES
CAMPING
SWIMMING
DANCING
and
MUCH MORE

SPECIFIC PROGRAMME ON BACK



the university campus

THE UNIVERSITY

Main Mall between dotted lines traffic on weekends and holidays

N.B.—Rearrangement of the ca pattern, including closu of t may be necessary in the sumn owing to new construction projec

CORRECTIONS AND ADDITIONS TO INFORMATION GIVEN ELSEWHERE IN THE CALENDAR

Apology by the Registrar

(1) for the late date of issue of this publication

(2) for the fact that obvious errors in the printed material have not been corrected in the body of the calendar.

Why we must apologize

The copy this year for the Summer Session calendar was produced, as an experiment, on magnetic tape with computer assistance. We anticipated difficulties but underestimated the time required. Consequently we were unable to make corrections to the copy before printing began. Our only recourse was to include the "errata" page you are now reading.

Please make the changes as shown, page by page.

Inside cover — New Students—Change date from April 1 to April 15.

Page 2 — foot of page—The last day for **late** registration is June **3.**

Dates—Students who have not previously attended the University should have made application and submitted all necessary documents by **APRIL 15.**

Page 3 — Mathematics 120, Section I scheduled for 8:15-10:10 a.m.
Mathematics 120, Section II scheduled for 8:15-10:10 a.m.

Page 4 — Home Economics **360/362,** Lecture, scheduled for 10:25-12:20.

Page 5 — Home Economics **360/362,** Laboratory, scheduled for 1:30-4:30, twice weekly.

Page 15 — Summer Session Association Executive Committee—Delete the names Peter Barrett and William Lucey.

Page 17 — 4th line, 1st column, should read "Registered **Cars** Only, Day and Night".

Page 18 — Column 2, **Rates** have been changed to read:

For individual students attending Summer Session:

Single Room	$184.00
Double Room, each person	$175.00

For families—adults and children over 18 months:

Single Room	$184.00
Double Room, each person	$175.00

Short Courses, daily rate at Totem Park:

Single Room $11.00

Double Room $10.00

Meals (2nd paragraph) daily rate has been changed to $4.00 a day.

Page 26

Education 400. This course is limited to 50 students each section.

Education 309, should read: **General Science for Elementary School Teachers (A)**

General science as a systematic study of our environment and man's relation to it; will cover such topics as living things, matter, energy, earth science, and the universe. Techniques of science, the improvisation and acquisition of necessary equipment, utilization of community resources. The course is intended to provide teachers with a broad background for teaching general science.

Limited to 24 students in each of six sections.

In order to take advantage of field trips students must keep Monday or Thursday afternoons free.

Ten hours lectures and three hours field work a week—3 units.

Note: This course does not carry credit for students in the Secondary Division.

Mr. Brough, Mrs. M. Forster, Mr. W. A. Krayenhoff, Miss Audrey Linnes, Dr. J. A. Rowell, Mrs. Janie Woodrow.

Page 28

Education 472. Students registering for Education 472 must at the same time register for Education 473 or Education 474.

Page 39

Fine Arts 307. Course description should read:

This introductory course in printmaking includes basic instruction in relief printmaking (lino and wood), silkscreen printmaking, and some intaglio techniques such as etching and drypoint. From the beginning there will be a strong emphasis on developing a personal imagery through involvement in these techniques.

Page 43

History 206. Pre-reading recommended: Consult Professor J. S. Conway, before July.

History 305. Expansion of Europe (B) **not** (C)

Page 44

Home Economics 360 and 362 are offered together for 3 units.

Page 45

Mathematics 203. *Ordinarily limited to Faculty of Education students who have attended the course in the winter session and failed to obtain credit in the April examination.*

Students should not register for another course.

Page 50

Russian 180. Secondary School students graduating in June 1969 may enrol in this course.

Page 52 Economics 200 (Section 901)—3 units. Mondays, Wednesdays **and Thursdays**, 7 p.m., May 5-June 30, Buchanan, Room 221.

Page 53 Sociology 301 (Section 901)—3 units: Limited enrolment. Course given by Mr. R. Ratner.

Page 56 Credit Courses in the Field. Should read "Asian Studies credit courses in Japan and a Geography 495 course in Peru are planned for July 1970."

CENTRE YELLOW PAGE

Summer Session Association.

Activities—Square Dances—Wednesday, 8-10 p.m. **THE BARN.**

—Social Dance Instruction—Monday and Thursday, 12:30-1:30 p.m. **Place to be announced.**

—Registered students and one guest are admitted **FREE** *to most of the above activities.*

Humanities and Creative Arts

A new event in each of the two ongoing programme series:

(1) **EXPLORATIONS IN THE HUMAN POTENTIAL** (which has to date brought to Vancouver Dr. Edward Maupin, Dr. G. I. Brown, Dr. Frederick Perls and Dr. Vincent Giuliano) and (2) **QUEST FOR LIBERATION** (a theme which has brought to Vancouver Dr. Huston Smith, Dr. Kenneth E. Boulding, Dr. Abraham Kaplan, Dr. Ashley Montagu and Dr. Alan Watts) is being planned; in all likelihood the visiting guest lecturer for the Quest series will be Dr. Theodore Roszak, Chairman of Western Culture Program, California State College at Hayward, former editor of *Peace News* (London), editor of *The Dissenting Academy*, and author of soon-to-be-published *The Making of a Counter Culture*—his topic will be "Alternative Realities". Dates to be announced.

STUDIO WORKSHOP IN ELECTRONIC MUSIC conducted by Professor Cortland Hultburg and staff, Department of Music, U.B.C. Class limited to 18 students. Dates to be announced.

Courses in painting and theatre will also be available. Dates and specific offerings to be announced.

Fur further information contact:

Humanities and Creative Arts Division
Extension Department
University of Birtish Columbia
Vancouver 8, B.C.

Phone 228-2181 (local 20)

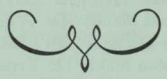
TRAVEL TOURS & FIELD TRIPS, 1969-70

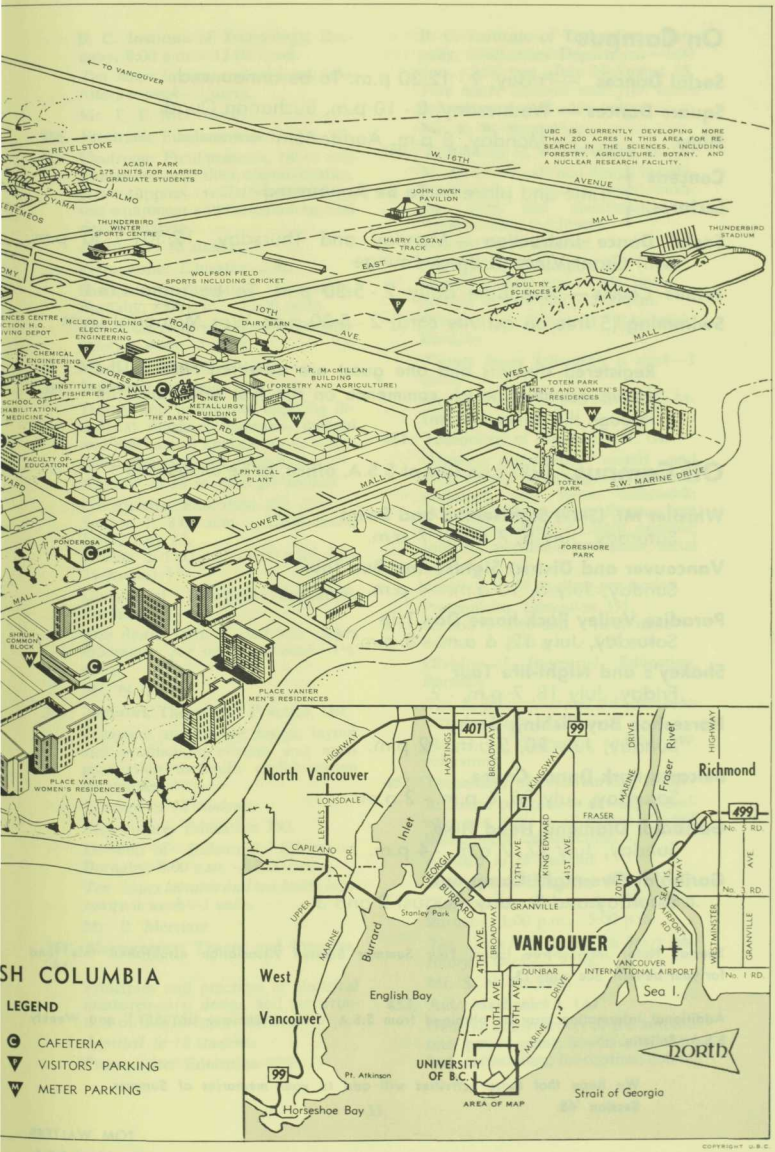
CARIBOO FIELD TRIP: July 2-5. Conducted by Dr. E. Gibson, Department of Geography, Simon Fraser University.

THE MAYAN TRAIL: December 19, 1969 to January 8, 1970. A tour of archaeological sites in Mexico, Gautemala and British Honduras—Maya, Olmec, Toltec, Zapotec and Aztec civilizations.

Further information from the Department of Extension, U.B.C. Ph. 228-2181.

Cover photographs courtesy University Alumni Association.





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ACTIVITIES

On Campus

Social Dances —Friday, 9 - 12:30 p.m. To be announced.

Square Dances — Wednesday, 8 - 10 p.m. Buchanan Quad.

Films — Monday, 8 p.m. Auditorium

Concerts
Lectures } Time and place — **To Be Announced**

Social Dance Instruction — Monday and Thursday, 12:30 - 1:30 p.m. with Grant Vincent. Brock Lounge

Tennis Courts — Available daily 2 - 5:30 p.m. To be announced

Swimming (5 free on activity card) 2 - 5:30 p.m. War Memorial Gym

Registered students and one guest are admitted *FREE* to the above activities, which commence on the first week and run through the Summer term.

Off Campus

Tickets on sale at S.S.A. office, to be announced

Whistler Mt. (Ski?) Sightseeing and Swim
Saturday, July 5, 7 a.m. - 7 p.m.

Vancouver and District Sightseeing Bus Tour
Sunday, July 6, 10 a.m. - 4 p.m.

Paradise Valley Pack-horse Day Trip
Saturday, July 12, 6 a.m. - 8 p.m.

Shakey's and Night-life Tour
Friday, July 18, 7 p.m. - ?

Horseshoe Bay Fishing Derby
Sunday, July 20, 5 a.m. - 2 p.m.

Belcarra Park Dance Cruise
Saturday, July 26, 6 p.m. - 2 a.m.

Garibaldi Diamond Head Hike
Sunday, July 27, 7 a.m. - 4 p.m.

Garibaldi Overnight Camp-out
Saturday and Sunday, August 2 and 3

Special Note: Interest-free loans. Your Summer Session Association established this fund for your benefit. See page 15.

Additional information may be obtained from S.S.A. office, "Summer UBYSSEY," and Weekly S.S.A. Bulletin.

We hope that these activities will add to your memories of Summer Session '68.

TOM WALTERS
President S.S.A.

B. C. Institute of Technology, Burnaby, 8:00 a.m. - 12:00 noon.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. E. E. McConechy

356. Electronic Fundamentals I. (A)

Electronic Fundamentals, tubes and transistors and their characteristics, power supplies, oscillators, amplifiers, test equipment and fault-finding, and circuit analysis.

Limited to 18 students.

Prerequisite: Education 230.

Division of Industrial Education, Burnaby, 8:00 a.m. - 12:00 noon.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. D. A. Berkey

357. Industrial Coatings. (A)

Theory and practice of applying industrial finishing materials; manual and mechanical application to wood, metal and synthetic surfaces.

Limited to 18 students per section.

Prerequisite: Education 350, 351.
Section 1: 8:00 a.m. - 12:00 noon, July 2-July 23.
Section 2: 1:00 p.m. - 5:00 p.m., July 24-August 15.

Division of Industrial Education, Burnaby.

Five hours lectures and five hours laboratory, per section, a week—1½ units.

Mr. N. Taylor

359. Millwork Theory and Practice. (B)

Furniture and fixture design; layout and production; custom and mass production methods; prefabrication techniques.

Limited to 18 students.

Prerequisite: Education 350.

Division of Industrial Education, Burnaby, 8:00 a.m. - 12:00 noon.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. R. Merriam

361. Measurement Theory and Practice. (A)

Principles and practices of electrical measurements; design and construction of measurement devices.

Limited to 18 students.

Prerequisite: Education 230.

B. C. Institute of Technology, Burnaby, Electronics Department—1:00 p.m. - 5:00 p.m., July 24-August 15.

Five hours lectures and five hours laboratory a week—1½ units.

Mr. E. W. Scratchley

450. Technology of Woodworking II. (A)

Modern methods and design in cabinet-making, veneering; wood-finishing; care and maintenance of woodworking machinery.

Limited to 18 students.

Prerequisite: Education 350.
Section 1: 8:00 a.m. - 12:00 noon.
Section 2: 1:00 p.m. - 5:00 p.m.

Division of Industrial Education, Burnaby.

Twenty hours laboratory a week—3 units.

Mr. G. Cockcroft and Mr. R. D. Atkins

451. Technology of Metalwork II. (A)

Common non-ferrous metals and their alloys; metallurgy; benchwork; grinding; drill press; lathework; shaper; milling machine; forging; heat treatment; simple foundry practice; tool and machine maintenance; metal finishes.

Limited to 18 students per section.

Prerequisite: Education 351.
Section 1: 8:00 a.m. - 12:00 noon
Section 2: 1:00 p.m. - 5:00 p.m.

Division of Industrial Education, Burnaby.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. D. D. Casperson and Mr. W. Johnstone

452. Technology of Woodworking I. (B)

A course designed to develop knowledge and skills in all phases of small frame house construction.

Limited to 18 students.

Prerequisite: Education 350.

Division of Industrial Education, Burnaby, 1:00 p.m. - 5:00 p.m.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. S. N. Derkson

453. Auto Mechanics I. (A)

General construction of the automobile; power plant; auxiliary systems; fuel, carburetion; lubrication; cooling

system; clutch and gear box; rear axles; drive shafts and universal joints; front axles and steering gears; brakes; miscellaneous.

Limited to 18 students.

Prerequisite: Education 351.

Division of Industrial Education, Burnaby, 8:00 a.m. - 12:00 noon.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. P. A. Trant

457. Technology of Metalworking III. (B)

Methods of forming, joining, machining, heat treatment and finishing of metals. Design analysis and the development of manufacturing techniques.

Limited to 18 students.

Prerequisite: Education 451.

B. C. Institute of Technology, Burnaby, 1:00 p.m. - 5:00 p.m.

Ten hours lectures and ten hours laboratory a week—3 units.

458. (a) Problems in Graphic Representation. (A)

Specific drafting problems associated with each of the following specialities:

(a) Construction: millwork and furniture drawings, small boat design; national and local building codes; descriptive geometry. (b) Metals-Mechanics: surface development: gearing; descriptive geometry. (c) Electricity-Electronics: layout and representation of problems in electrical and electronic design.

Limited to 18 students.

Prerequisite: Education 252.

Five hours lectures and five hours laboratory a week—1½ units.

458. (b). (A)

Limited to 18 students per section.
Section 1: 8:00 a.m. - 12:00 noon
Section 2: 1:00 p.m. - 5:00 p.m.

Division of Industrial Education, Burnaby.

Five hours lectures and five hours laboratory a week—1½ units.

Mr. E. Turney

458. (c). (A)

Limited to 18 students.

Division of Industrial Education, Burnaby, 1:00 p.m. - 5:00 p.m.

Five hours lectures and five hours laboratory a week—1½ units.

Mr. R. H. Graham

459. Materials Technology in Industrial Education. (B)

Wood and materials directly derived from wood; metals and alloys; synthetics; adhesives, physical testing of materials.

Limited to 18 students.

B. C. Institute of Technology, 8:00 a.m. - 12:00 noon.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. W. R. Irving

463. Technology of Synthetic Materials. (C)

Principles and practices of synthetic materials lay-up; forming and extrusion; design and production of moulds and plugs; die casting.

Limited to 18 students.

Prerequisites: Education 350 and 351.

Division of Industrial Education, 1:00 p.m. - 5:00 p.m.

Ten hours lectures a week—3 units.

Mr. D. A. Dennis

465. Technical Problem. (C)

This course gives the student the opportunity to conduct directed study in an area within his technical field of specialization. The study will culminate in a written paper. (This section will be devoted to directed studies in materials technology).

Prerequisite: Ed. 459 or permission of instructor.

Limited to 18 students.

Division of Industrial Education, Burnaby, 8:00 a.m. - 12:00 noon.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. S. K. Lee

466. Problems in Electrical Equipment Production. (C)

Fabrication and assembly of electrical and electronic equipment; techniques applicable to the school situation; evaluation of design and manufacturing technique.

Prerequisite: Ed. 230.

Limited to 18 students.

Division of Industrial Education, Burnaby, 1:00 p.m. - 5:00 p.m.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. J. M. Smith

467. Automotive Theory and Practice II. (B)

Advanced automotive design and repair; diagnosis of mechanical and electrical faults; evaluation of modern servicing procedures.

Limited to 18 students.

Prerequisite: Ed. 453.

Division of Industrial Education, Burnaby, 1:00 p.m. - 5:00 p.m.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. R. S. Alexander

ENGLISH

100. Literature and Composition. (A)

A study of the principles of composition and of some twentieth-century examples of drama, short story, poetry, and novel. Essays will be required.

Pre-reading required: D. H. Lawrence, Sons and Lovers; Samuel Beckett, Waiting for Godot. On the second day of Summer Session there will be an examination on these two books.

Limited to 18 students per section.

Ten hours lectures and discussions a week—3 units.

Mr. S. Levitan and Miss H. Jones

200. Literature and Composition. (A)

A study of representative works of English literature. The course is offered in two divisions (Major Authors & Genres) with alternative reading lists. Essays are required.

Limited to 35 students per section.

Prerequisite: English 100.

Pre-reading: Preliminary reading is required: about 20% of the total credit for the course will be given on the results of an examination held during the first week of the Summer Session term and covering the following: Major Authors division (Sections 1, 3 and 5) (Reading List A): Shakespeare, Hamlet; Pope, Essay on Criticism, Rape of the Lock; Dickens, Bleak House; Genres Division (Sections 2 and 4) (Reading List B): Shakespeare, Twelfth Night; Dryden, MacFlecknoe; Austen, Emma; Conrad, Secret Agent.

PLEASE BE SURE TO INDICATE BOTH THE DIVISION (MAJOR AUTHORS OR GENRES) AND THE SECTIONS (1, 2, 3, 4, or 5) ON YOUR REGISTRATION CARDS.

Ten hours lectures a week—3 units.

NOTE: English 200 or its equivalent is prerequisite to all English courses numbered 300 and above.

Dr. R. W. Ingram, Mrs. A. Livesey, Mrs. S. F. Saunders, Mr. R. M. Snukal, Mr. D. W. Wright

300. Seminar for English Majors. (A)

Exercises in practical criticism. A small number of texts will be examined closely in a seminar situation.

Limited to 20 students.

Prerequisite: English 200.

Pre-reading required: Woolf, To the Lighthouse; Twain, Huckleberry Finn; Shakespeare, King Lear, The Tempest; Pope, The Rape of the Lock.

Ten hours lectures a week—3 units.

Dr. L. M. Whitehead

303. English Composition. (A)

A study of the principles and practice of good writing. For students in the Faculty of Education only.

Since this course is now offered by correspondence, enrolment in the Summer Session will be limited to sections of 15 students each who will be chosen in order of priority as follows:

(a) those who need only this course, or this course and 3 other units, to graduate.

(b) those who are majoring in science on the secondary programme and require the course in lieu of English 200 for the E.B. certificate.

(c) those who previously failed English 300 or 303.

(d) those with two full years in another Faculty who transfer into the Faculty of Education (A programme).

(Please indicate your priority on your registration material.)

Limited to 15 students per section.
Individual instructors will choose their own textbook.

Ten hours lectures a week—3 units.

Dr. F. H. Whitman, Mrs. A. G. Savery, Mr. P. L. Burkhart, Mrs. A. M. Wrinkle, Mr. P. G. Ellis, Mrs. J. Fredeman

304. Advanced English Composition. (A)

This course offers students practice in the writing and criticism of essays and prose composition in general. Competent use of the English language is prerequisite. This course is open to certain students in the Faculty of Education, and to others by consent of the instructor.

Limited to 15 students per section.

Pre-reading recommended: Read, *English Prose Style.*

Ten hours lectures a week—3 units.

Mr. A. Bell

309. Modern English and its Background. (A)

A description of English phonetics, phonology, grammar and vocabulary.

Limited to 35 students per section.

Pre-reading required - Section I: C. C. Fries, The Structure of English (New York: Harcourt, Brace & World, 1952), Chapters 1-12.

Pre-reading required - Section II: R. A. Jackobs and P. S. Rosenbaum, English Transformational Grammar.

Ten hours lectures a week—3 units.

Dr. P. A. Taylor, Mr. D. Reed

311. Children's Literature. (A)

A survey of children's literature from early sources to recent books. A historical approach to the appraisal of books and authors for children. For credit only in the Faculty of Education.

Limited to 35 students per section.

Pre-reading required: Carroll, Alice in Wonderland; David, Twelve Dancing Princesses; Defoe, Robinson Crusoe; E. Graham, Puffin Book of Verse; K. Grahame, Wind in the Willows; Homer, Odyssey; L'Engle, Wrinkle in Time, L. M. Montgomery, Anne of Green Gables; Twain, Tom Sawyer; E. B. White, Charlotte's Web; Egoff, Republic of Childhood (Canadiana); E. Hamilton, Mythology. In addition, at least one aspect of literature for children (e.g., one type of story - adventure, realistic fiction, historical fiction, etc.,) should be explored. Students are strongly advised to acquaint themselves with reading materials for children in general - not specifically for primary or intermediate or secondary. Lists of further resources may be obtained from Prof. L. F. Ashley, Faculty of Education, U.B.C.

Ten hours lectures a week—3 units.

Mrs. M. V. Ralston, Mr. L. F. Ashley, Miss M. Dorosh, Miss N. Martin, Mr. N. Stephenson

321. Approaches to Poetry. (B)

Critical studies of representative English poems grouped according to form and content.

Limited to 25 students.

Ten hours lectures a week—3 units.

Dr. G. Creigh

340. The English Novel. (A)

A critical introduction to the major English novelists of the eighteenth, nineteenth, and early twentieth centuries. Critical theories of the novel form, its development and changing techniques, will be discussed mainly through a detailed study of twenty novels.

Limited to 35 students.

Pre-reading recommended: An examination on the pre-reading that follows will be given at the end of the first week: Defoe, Moll Flanders; Richardson, Clarissa; Fielding, Tom Jones; Sterne, Tristram Shandy; Burney, Evelina; Lewis, The Monk; Austen, Northanger Abbey, Emma.

Ten hours lectures a week—3 units.

Mr. H. J. Rosengarten

365. Shakespeare. (A)

Detailed study in class of eight plays: *Richard III, As You Like It, Twelfth Night, Julius Caesar, Hamlet, Macbeth, Coriolanus,* and *The Tempest.* Home reading: *The Taming of the Shrew, Richard II, All's Well That Ends Well* and *Timon of Athens.*

Limited to 35 students.

Note: Students should have a copy of the complete works in any standard edition; they should read as many plays as possible before lectures begin. For class use it is suggested that students obtain individual copies of the plays in any popular series, e.g. Pelican.

Pre-reading recommended: Tilford, Elizabethan World Picture.

Ten hours lectures a week—3 units.

Dr. K. Stockholder

366. Shakespeare. (A)

Detailed study in class of eight plays: Romeo & Juliet, A Midsummer Night's Dream, The merchant of Venice, Henry IV, Pt. I, King Lear, Measure for Measure, Antony and Cleopatra and The Winter's Tale. Home study: Henry IV, Pt. II, Henry V, Love's Labours Lost, and Troilus and Cressida.

Limited to 35 students.

Pre-reading required: S. T. Bindoff, Tudor England; E. M. W. Tillyard, The Elizabethan World Picture; F. E. Halliday, The Life of Shakespeare.

NOTE: Students should have a copy of the complete works in any standard edition (recommended: G. B. Harrison); they should read as many plays as possible before lectures begin. For class use it is suggested that students obtain individual copies of the plays in any popular series, e.g. Pelican.

Ten hours lectures a week—3 units.

Dr. J. D. Wigod

380. Eighteenth-Century Literature. (B)

The age of Pope and the age of Johnson, including studies of representative authors such as Swift, Gray, Goldsmith, Burns and Blake.

Limited to 35 students.

Pre-reading required: Swift: Tale of a Tub and Battle of the Books; Pope: Essay on Criticism, Essay on Man, Dunciad; Johnson: Rasselas, Selected Essays from Idler and Rambler, Lives of Pope, Dryden, Cowley; Boswell: Life of Johnson, ed. and abridged by Anne and Irvin Ehrenpreis, Washington Square Press.

Ten hours lectures a week—3 units.

Dr. D. L. Evans

391. The Romantic Period. (A)

Chiefly Wordsworth, Coleridge, Byron, Shelley, and Keats. A detailed reading list is available from the Secretary, Buchanan 469.

Limited to 35 students.

Ten hours lectures a week—3 units.

Dr. W. Stevenson

392. Victorian Poetry. (A)

A study of Tennyson, Browning and Arnold, together with some works by Clough, Meredith and The Pre-Raphelite Poets. A detailed reading list available from the English Department office.

N.B. An examination on the pre-reading required will be given at the end of the first week of lectures.

Pre-reading required: All the poems by Tennyson in Houghton and Stange, Victorian Poetry and Poetics; Idylls of the King, Bantam Paperback; Thomas Carlyle's essay, "Characteristics" (available in the Norton Anthology); W. E. Houghton, The Victorian Frame of Mind (a Yale paperback); Dickens, Hard Times.

Limited to 35 students.

Ten hours lectures a week—3 units.

Dr. J. F. Hulcoop

420. The Early Modern Period. (B)

English literature between 1870-1918. The course combines a detailed study of selected texts with a discussion of contemporary social, intellectual and artistic trends. The authors studied include: Hardy, Housman, Hopkins, Butler, Moore, Wilde, Yeats, Owen, Conrad, Wells, Shaw, and Synge. A detailed reading list is available from the Department, Buchanan 469.

Limited to 35 students.

Pre-reading required: Hardy, The Return of the Native; Tess of the d'Urbervilles (Macmillan); Butler, The Way of All Flesh (Penguin); Wilde, The Picture of Dorian Gray (Penguin); Conrad, The Secret Agent.

Pre-reading recommended: Moore, Esther Waters (Riverside); Wells, The Island of Dr. Moreau (Penguin); Shaw, Major Barbara; Heartbreak House (Penguin).

Ten hours lectures a week—3 units.

Mr. A. Busza

429. Contemporary Literature. (A)

The course deals with major figures and trends in English literature between 1914 and 1960: Joyce, Lawrence, Woolf, Forster, Eliot, Yeats, Auden, and others.

Limited to 35 students.

Pre-reading required: Conrad, Vic-

tory; Lawrence, Sons and Lovers, St. Mawr, The Man Who Died; Forster, A Passage to India; Joyce, A Portrait of the Artist as a Young Man; Woolf, To the Lighthouse; Golding, Lord of the Flies; Greene, The Heart of the Matter; Eliot, Four Quartets; Yeats, Selected Poems (Macmillan).

Ten hours lectures a week—3 units.

Dr. G. E. Powell

451. American Poetry. (C)

A study of American Poetry with the main emphasis on poetry since Whitman.

Limited to 35 students.

Pre-reading required: Whitman: Song of Myself; Williams: Paterson.

Pre-reading recommended: R. H. Pearce: The Continuity of American Poetry.

Ten hours lectures a week—3 units.

Dr. P. A. Quartermain

505. Studies in Fiction: The Rise of the Novel.

The seminar will examine the development of the novel in such eighteenth-century forms as journalistic, epistolary, "comic epic," picaresque, and "Cervantic." The core of the course consists in critical reading of selected novels.

Limited to 12 students.

Pre-reading required: Defoe, Robinson Crusoe, Moll Flanders; Richardson, Pamela, Clarissa; Fielding, Joseph Andrews, Tom Jones; Smollett, R. Random, H. Clinker; Sterne, Tristram Shandy, Sentimental Journey. (Riverside Editions where available).

Pre-reading recommended: E. A. Baker, History of English Novel, IV; W. C. Booth, Rhetoric of Fiction; A. Kettle, Introduction to English Novel, I; A. D. McKillop, Early Masters of English Fiction; L. Stevenson, The English Novel; I. Watt, The Rise of the Novel.

Prerequisite: Permission of the Department's Graduate Committee is required. No other course may be taken concurrently.

Ten hours discussion a week—3 units.

Dr. J. F. Stewart

539. Contemporary Drama.

A study of the significant British, American, and European drama of the post-war years. The course begins with an examination of the major trends, themes, and styles of mid-century drama and then goes on, after an introductory consideration of Brecht, Sartre, Miller, and Williams, to a thorough examination of the kinds of drama represented by the work of Ionesco, Beckett, and Pinter. Other dramatists considered include Osborne, Wesker, Albee and Genet, and the total number of plays studied, including one-acts, will be about 24. The student is strongly advised to acquire an advance familiarity (if he does not possess it already) with the main developments in modern drama before 1945. A knowledge of some plays by Ibsen, Strindberg, Chekhov, and Pirandello will be expected.

Limited to 12 graduate students.

Pre-reading required: Apply to Secretary Graduate Committee, Buchanan 466 for further information.

Ten hours discussion a week—3 units.

Dr. M. R. Booth

FINE ARTS

101. History of the Fine Arts. (A)

History of music, art and architecture with emphasis upon the cultural development of mankind throughout the ages. Appreciation and understanding will be encouraged, through illustration and discussion of major works.

For credit only in the Faculty of Education.

Ten hours lectures a week—3 units.

Miss V. Leslie, Mr. J. Sandvoss

125. History of Art. (A)

A survey of the history of architecture, painting and sculpture of the Western World from Ancient Egypt and Mesopotamia to the present.

Pre-reading recommended: H. W. Janson, History of Art, Prentice-Hall Inc., & Harry Abrams Inc., N.Y., 1968.

Ten hours lectures a week—3 units.

228. Design Fundamentals. (A)

An introductory study of visual forms, conducted through studio work and experiments closely related to illustrated lecture and demonstra-

tions; the basic visual elements explored through two and three dimensional materials and intermedial projects.

Limited to 30 students. Priority - prospective Fine Arts majors.

Twenty hours a week lectures and laboratory—3 units.

300. Introduction to the Plastic and Graphic Arts. (A)

Experiment and study in various media of art expression as a basis for advanced work towards an art major. This course is an introduction to the four major areas— painting, ceramics, design and print-making. Students will be expected to submit a sketch book of work as part of the final mark.

For credit only in the Faculty of Education.

Limited to 25 students majoring in Art.

Prerequisite: Fine Arts 101.

Sketch Book required, obtainable at the University Book Store.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. J. C. Cawood

301. Drawing and Composition. (B)

The study of the fundamentals of graphic expression and imagery through explorations and experiments with a variety of drawing media. Included will be problems of pictorial analysis and composition.

For credit only in the Faculty of Education.

Limited to 20 students majoring in Art.

Prerequisites: Fine Art 101 and 300 completed with adequate standing.

Ten lectures and ten hours laboratory a week—3 units.

Mr. S. Black

305. Design I. (B)

This course will include studio experiment in both two and three dimensional design problems with the purpose of developing a fuller understanding of the fundamental design principle.

For credit only in the Faculty of Education.

Limited to 15 students for F.A. 305, 405 and 415 combined.

Prerequisites: Fine Arts 300 and 302 or equivalent courses.

Ten hours lectures and ten hours laboratory a week—3 units.

Mrs. Barbara Shelly

307. Graphic Arts I. (B)

This course includes instruction in the basic techniques of relief printing (lino cuts, woodcuts, wood engravings); also experimental techniques in silk screen printing. Extra time will be spent in laboratory discipline.

For credit only in the Faculty of Education.

Limited to 15 students for F.A. 307, 407, 417 combined.

Prerequisites: Fine Arts 300 and 302 or equivalent courses.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. R. Steele

401. Painting I. (A)

The skills and techniques of the medium will be developed by experiments and problems. Studio and outdoor subjects will be used. A sketch book must be submitted as part of the final mark.

Limited to 20 students. For credit only in the Faculty of Education.

Prerequisites: Fine Arts 300 and 302 or equivalent courses.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. S. Healy

402. Painting II. (A)

The skills and techniques of the medium will be developed by experiments and problems. Studio and outdoor subjects will be used. A sketch book will be submitted as part of the final mark.

Limited to 20 students. For credit only in the Faculty of Education.

Prerequisite: Fine Arts 401.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. F. Anderson

405. Design II. (B)

This course will apply experiment and technique to specific design problems with emphasis on such aspects of design as interest decoration, industrial design and fabric design.

For credit only in the Faculty of Education.

Limited to 15 students for F.A. 305, 405, 415 combined.

Prerequisite: Fine Arts 305 or equivalent course.

Ten hours lectures and ten hours laboratory a week—3 units.

Mrs. Barbara Shelly

407. Graphic Arts II. (B)

This course offers an opportunity for students to become involved in basic techniques not acquired in F.A. 307. The process of personal imagery development is again given central importance.

For credit only in the Faculty of Education.

Limited to 15 students for F.A. 307, 407, 417 combined.

Prerequisite: Fine Arts 307 or equivalent course.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. R. Steele

415. Design III. (B)

A special study in an advanced field of design.

For credit only in the Faculty of Education.

Limited to 15 students for F.A. 305, 405, 415 combined.

Prerequisite: Fine Arts 405 or equivalent courses.

Ten hours lectures and ten hours laboratory a week—3 units.

Mrs. Barbara Shelly

417. Graphic Arts III. (B)

This advanced course in printmaking gives the student an opportunity to work in depth in one or more printmaking techniques.

For credit only in the Faculty of Education.

Limited to 15 students for F.A. 307, 407, 415 combined.

Prerequisite: Fine Arts 407 or equivalent courses.

Ten hours lectures and ten hours laboratory a week—3 units.

Mr. R. Steele

430. Art of the Renaissance. (C)

The painting, sculpture and architecture of Italy and Northern Europe from 1400 to 1600.

Ten hours lectures a week—3 units.

FRENCH

110. First Year French. (A)

Limited to 25 students per section.

Prerequisite: French 11 or equivalent. Not available for credit to students who have completed French 12 or the equivalent.

Pre-reading required: Hickman, Mentha & Moreau, Le Quebec: Tradition et Evolution, vol. 2., pp. 41-65; 76-88.

Ten hours lectures a week—3 units.

Miss M. Conley, Dr. D. J. Niederauer

120/210. Contemporary French: Language and Literature. (A)

Limited to 25 students.

Prerequisite: French 12 or French 110 or equivalent.

Ten hours lectures a week—3 units.

Mr. L. S. Koritz

202. (formerly 223) Studies in French Language and Style, I. (A)

Composition, oral practice, translation.

Limited to 25 students.

Prerequisite: French 120 or equivalent.

Ten hours lectures a week—3 units.

Dr. G. P. Murray

220. An Introduction to French Literature. (A)

Limited to 25 students.

Prerequisite: French 120 or equivalent.

Ten hours lectures a week—3 units.

Dr. A. R. Mackay

302. Studies in French Language and Style, II. (A)

Composition, syntax, versification, advanced translation and oral practice.

Limited to 20 students.

Prerequisite: French 202 (formerly 223).

Ten hours lectures a week—3 units.

Dr. E. J. Matte

304. Now French 402.

306. French Phonetics. (A)

Theory and practice of French pronunciation.

Limited to 25 students.

Five hours lectures and five hours laboratory a week—3 units.

Dr. R. L. White

402. Studies in French Language and Style, III. (B)

Stylistics, textual analysis, translation.

Limited to 20 students.

Prerequisite: French 302.

Ten hours lectures a week—3 units.

Mr. J. Bessiere

409. Literature of the Seventeenth Century. (C)

Representative authors with emphasis on Corneille, Racine, Moliere, Descartes, Pascal and La Fontaine.

Ten hours lectures a week—3 units.

Dr. N. Marzac

413. The Nineteenth-Century Novel from the Origins of Realism to Proust. (C)

Literary trends and parallel developments in the fields of painting and music.

Ten hours lectures a week—3 units.

Dr. C. D. E. Tolton

GEOGRAPHY

100. (Replaced by Geography 102).

101. Introduction to Physical Geography. (A)

Weather and climate; origin and distribution of landforms with particular reference to North America.

Limited to 125 students. Priority - Geography majors.

(Geography 101 may be credited as a science elective in the B.A. or the B.Ed. Programmes).

(Laboratory periods are available throughout each day and will be assigned at the first lecture).

Ten hours lectures and eight hours laboratory a week—3 units.

Dr. H. O. Slaymaker

102. Introduction to Human Geography. (A)

The study of human activities in their spatial and ecological contexts: economic development; cultural change; theories of the location of economic activity; urbanization; the geography of population and of resources; theories of the region and regionalization; field studies. Illustrations will be drawn from various world regions.

Limited to 270 students. Priority - geography majors.

Replaces Geography 100 and 201. (Laboratory periods to be arranged at first meeting).

Ten hours lectures and two hours laboratory a week—3 units.

Mr. N. C. Mitchel, Dr. R. Leigh

201. (Replaced by Geography 102).

324. Introduction to Cultural Geography. (C)

The geographic aspects of culture; the culture area and the cultural landscape; stages of socio-economic development; cultural ecology.

Limited to 60 students. Priority - Geography majors.

Prerequisite: Geography 201 or instructor's permission.

Ten hours lectures a week July 23-August 15—1½ units.

Mr. N. C. Mitchel

337. Introduction to Political Geography. (B)

The heritage of political geography; the spatial structure of political organization including notions of territoriality and hierarchy, centrality and nodes, boundaries and frontiers, global structures.

Limited to 60 students. Priority - Geography majors (a) Arts (b) Education.

Prerequisite: Geography 100 and 201 or instructor's permission; open to majors and honours students in History and Political Science.

Ten hours lectures a week July 2-July 22, inclusive—1½ units.

Dr. J. V. Minghi

350. Introduction to Urban Geography. (A)

Major themes in the geographic study of cities and urban systems.

Limited to 60 students. Priority - Geography majors (a) Arts (b) Education.

Prerequisite: Geography 201 or instructor's permission.

Ten hours lectures a week July 2-July 22, inclusive—1½ units.

Dr. A. Getis

437. Political-Geographic Analysis. (B)

The spatial structure of political processes and behaviour. Models of selected political-geographic problems such as discontiguity, partition, changes in sovereignty, federation and defederation, disputes over territory; specific regional examples.

Limited to 60 students. Priority - Geography majors (a) Arts (b) Education.

Prerequisites: Geography 201 or 337.

Ten hours lectures a week July 23-August 15—1½ units.

Dr. J. V. Minghi

450. Urban Analysis. (A)

Geographic Analysis of selected problems of the internal structure of cities and urban systems.

Limited to 60 students. Priority - Geography majors (a) Arts (b) Education.

Prerequisites: Two of Geography 350, 351, 360, 361.

Ten hours lectures a week July 23-August 15—1½ units.

Dr. A. Getis

491. Geography of the Pacific Northwest. (C)

Regional geography with emphasis on British Columbia and the Northwest States: Physical and cultural elements, patterns, and problems of location and use of resources.

Limited to 80 students. Priority - Geography majors (a) Arts (b) Education.

Prerequisites: Geography 101, 201 recommended.

Ten hours lectures a week—3 units.

Dr. R. L. Monahan

496. Geography of East Asia. (C)

The physical and human geography of eastern Asia with emphasis on China and Japan.

Limited to 60 students. Priority - Geography majors.

Ten hours lectures a week—3 units.

Dr. T. N. Chiu

GEOLOGY

105. General Geology. (A)

Physical and historical geology. Origin and structure of the earth, materials of the earth, diastrophism, erosion, land forms, mineral deposits, history of the earth and the development of life.

Ten hours lectures and ten hours laboratory a week—3 units.

Dr. J. C. Avent

GERMAN

100. First Year German. (A)

Introduction to the language.

Ten hours lectures and laboratory a week—3 units.

Mr. R. C. Beaumont, Mr. L. Medveczky

200. Second Year German. (A)

Reading grammar, composition.

Prerequisite: German 100.

Ten hours lectures a week—3 units.

Mrs. M. H. Lenos

310. German Literature 1800-1900. (C)

Major literary trends and representative figures from Romanticism to Naturalism.

Pre-reading required: 3a Novalis, Dichtungen.

Pre-reading recommended: Kleist, Uber das Marionettentheater.

Ten hours lectures a week—3 units.

Mr. H. Martin

412. Twentieth-Century Poetry. (C)

The lyric of the twentieth century with special emphasis on interpretation.

Ten hours lectures a week—3 units.

Dr. R. Gray

516. Guided Research.

Tutorial—3 units.

The Staff

HISTORY

100. History of Modern Europe. (C)

An introduction to the history of modern Europe from the period of the Reformation to the end of World War II, with emphasis on the development

of institutions, intellectual currents, and the impact of European culture on the rest of the world.

Pre-reading required: D. G. Gustavson, A Preface to History. New York: McGraw-Hill, 1955. Crane Brinton, The Shaping of Modern Thought, Englewood Cliffs: Prentice Hall, 1963.

Pre-reading recommended: L. S. Stavrianos, The Epic of Modern Man. Englewood Cliffs: Prentice Hall, 1966.

Ten hours lectures a week—3 units.

Mr. W. J. McDermott

202. History of Canada. (C)

Pre-reading required: McInnis, Canada.

Pre-reading recommended: W. J. Eccles, Frontenac; The Courier Governor. (Carleton Library edition).

Ten hours lectures a week—3 units.

Miss P. E. Roy

206. Main Currents in Twentieth-Century History. (C)

A background for contemporary world-problems. Prerequisite for a combined major in International Relations. Not open to students who have received credit for History 101 or International Studies 100.

Pre-reading recommended: Consult Instructor before July.

Ten hours lectures a week—3 units.

Dr. J. S. Conway

305. Expansion of Europe. (C)

After an introductory glance at the first wave of European expansion the course will consider the breakup of those early empires at the turn of the eighteenth and nineteenth centuries. It will then move on to an examination of nineteenth century expansion, including the partition of Africa, and conclude with some study of colonial rule in Africa in the twentieth century.

Limited to 30 students.

Pre-reading recommended: D. K. Fieldhouse: The Colonial Empires, Weidenfeld & Nicholson, 1966.

Ten hours lectures a week—3 units.

Dr. R. T. Anstey

313. The Renaissance. (B)

European society and its cultural expressions from the fourteenth to the sixteenth centuries.

Pre-reading required: K. H. Donnenfeldt (ed): The Renaissance—Medieval or Modern? (Heath Series): S. Painter: French Chivalry (Cornell University Press)

Pre-reading recommended: Denys Hay: The Italian Renaissance in its Historical Background (Cambridge University Press).

Ten hours lectures a week—3 units.

Dr. C. J. Wrong

326. British North America, 1763-1867. (B)

The economic, social, and political development of the British colonies in North America from the cession of New France to Confederation.

Limited to 50 students.

Ten hours lectures a week—3 units.

Dr. J. Monet

328. The United States, 1789-1877. (C)

Limited to 50 students.

Pre-reading recommended: Any survey history of the United States. Example: S. E. Morison's *Oxford History of the United States.*

Ten hours a week—3 units.

Dr. G. McWhiney

400. Intellectual History of Modern Europe. (B)

Ten hours lectures a week—3 units.

420. Evolution of the Canadian Constitution. (C)

Pre-reading required: Walter Bagehot, The English Constitution, Fontana paperback edition (London, 1963).

Ten hours lectures a week—3 units.

Mr. F. M. Greenwood

422. Modern Japan. (C)

Intellectual, social, political and economic currents in Japan since the Meiji Restoration (1868).

Ten hours lectures a week—3 units.

HOME ECONOMICS

201. Foods. (B)

Composition, structure and properties of foods. Effect of physical and chemical environment. Laboratory work applies scientific principles and theories to practical problems of food

preparation, incorporating research methods.

Limited to 30 students.

Prerequisite or concurrent: Chemistry 230.

Ten hours lectures and six hours laboratory a week—3 units.

Mrs. Shirley Chen

220. Design Fundamentals. (B)

A study of the basic visual elements and the fundamental principles and concepts of design; purposes of design.

Limited to 18 students.

N.B. Home Economics 220 & 420 offered together for 3 units.

Ten hours lectures and six hours laboratory a week—1½ units.

360. Decision-Making and Management in the Family. (B)

The study of decision-making as a social process in family management. The course includes consideration of factors affecting decision, elements of decision, approaches to decision-making and the focus and function of home management.

Prerequisite or concurrent: 6 units of social science.

Six hours lectures a week—1½ units.

362. Consumer Problems. (B)

A study of the role and function of the consumer in the market economy; the nature of the economic system and the place of the consumer in the economic cycle; forces back of consumer demand as custom-made wants, conspicuous consumption and emulation and producermade wants as advertising; organizations and laws that affect the interests of consumers.

Prerequisites: Home Economics 360, Economics 200.

Six hours lectures a week—1½ units.

Miss Ruth Berry

420. Elements of Housing Design. (B)

A study of housing design and of the following influential factors; fundamental design principles, architectural design concepts, human physical and psychological needs, certain sociological factors, technology.

Limited to 18 students.

N.B. Home Economics 220 & 420 offered together for 3 units.

Ten hours lectures and six hours laboratory a week—1½ units.

ITALIAN

100. First-Year Italian. (B)

Grammar, reading, conversation.

Ten hours lectures and laboratory a week—3 units.

Dr. G. De Stefanis

LATIN

120, 200, 220, 301, 405 or 521. Composite Course in Latin. (A)

Intended primarily for students attending the Summer Session. Vergil's Aeneid will be read, partly in the original and partly in English translation, the amount of the original varying with the student's preparation. Students desiring credit in Latin 120, 200, 220, 301, 405 or 521 will register for this course under the appropriate number and will receive three units of credit upon the successful completion of the appropriate amount of work. Students who have failed Latin 110 in the winter session will not be admitted.

Prerequisite: Latin 100 or equivalent (at least second class).

Pre-reading required: For Latin 200: the first five units of Ullman and Henry, Second Latin Book, or equivalent.

Ten hours lectures a week—3 units.

Dr. J. Russell

MATHEMATICS

120. (Section 1) Introduction to Calculus, Vectors and Matrices. (A)

This course is prerequisite to Mathematics 155, 156, 200, 202, 220, 221, 240. It is a required course for all students in the Faculty of Science and for all students intending to take Engineering, Architecture, Economics or a Major or an Honours course in Mathematics.

Prerequisite: Mathematics 12 (Secondary School Programme, British Columbia) or the equivalent.

Ten hours lectures a week—3 units.

Dr. D. Sjerve

120. (Section 2) Introduction to Calculus, Vectors and Matrices. (C)

Prerequisite: Mathematics 91 (Secondary School Programme, British Columbia) or the equivalent. *Students offering Mathematics 91 will be required to enrol in this section,* and attend a problem session one additional hour per day.

Pre-reading required: Trigonometry by E. P. Vance, Addison-Wesley Publishing Co., Chapters 2, 3, 4, 5 and 6.

Ten hours lectures and five hours problem sessions a week—3 units.

Dr. L. E. Lefevre

200. Algebra and Geometry. (A)

Mathematical induction, complex numbers, polynomials, matrices and determinants, conics and solid analytical geometry.

Prerequisite: Mathematics 120.

Ten hours lectures a week—3 units.

Dr. R. Westwick

202. Calculus. (A)

Differential and integral calculus, with applications.

Prerequisite: Mathematics 120.

Ten hours lectures a week—3 units.

Mr. J. E. Smith

203. Elementary Mathematics for Teachers. (C)

For credit only in the Faculty of Education.

Ten hours lectures a week—3 units.

211. Replaced by Commerce 110.

212. Replaced by Commerce 110.

300. Calculus II. (A)

Differential and integral calculus with applications.

Prerequisite: Mathematics 202 or 220.

Ten hours lectures a week—3 units.

Dr. G. E. Huige

306. Topics in Geometry. (B)

A study of various geometrics with some attention to the foundations of the subject.

Prerequisite: Mathematics 200.

Ten hours lectures a week—3 units.

Mr. E. Macskasy

307. Linear Algebra. (B)

Vector spaces, linear mappings, linear equations and matrices, linear inequalities and convex sets, inner products and norms, quadratic forms.

Prerequisite: Mathematics 200.

Ten hours lectures a week—3 units.

Dr. F. W. Lemire

308. Topics in Algebra. (B)

The number system; groups, rings, and fields; theory of numbers and of polynomials over a field; matrices, determinants, and systems of linear equations.

Prerequisite: Mathematics 200.

Ten hours lectures a week—3 units.

Dr. T. A. Howitz

410. Differential Equations. (B)

An introductory course with applications to geometry, mechanics, physics, and chemistry.

Prerequisite: Mathematics 300.

Ten hours lectures a week—3 units.

Dr. E. Leimanis

411. Complex Variables. (B)

Elementary functions, conformal mapping, integration, Taylor and Laurent series, residues, singularities, meromorphic functions, analytic continuation, elliptic functions.

Prerequisite: Mathematics 300.

Ten hours lectures a week—3 units.

Dr. A. F. Pixley

514. Nonlinear Differential Equations II.

Basic existence theory, theory of linear systems. Stability, asymptotic behaviour. Lyapunov's second method. Some topological aspects.

Ten hours lectures a week—3 units.

Dr. F. Y. Brauer

530. Topics in Algebra (Alternative Rings).

History. Quadratic forms and quadratic algebras. The Cayley-Dickson constructions. Basic identities in alternative rings. Simple rings. Primitive rings, Prime rings, Semi-prime rings. Radical Theory. Comparison with associative theory. Discussion of open questions.

Ten hours lectures a week—3 units.

Dr. M. Slater

532. Topics in Topology.

Fibre bundles, Vector bundles, K-theory. Exact couples and spectral sequences. General cohomology theory. Chern classes and the Hopf invariant theory.

Prerequisites: Homology and cohomology theory of polyhedra. Cohomology ring, Homotopy groups of spaces.

Ten hours lectures a week—3 units.

Dr. P. J. Hilton

MICROBIOLOGY

200. Introductory Microbiology. (A)

Structure and function of bacteria and related microorganisms, bacterial growth and metabolism, virus replication, bacterial genetics, chemotherapy, body defences against disease, dynamics of bacterial infection, industrial microbiology and principles of bioassay.

Prerequisite: Biology 101 or equivalent.

This course is prerequisite to all other courses in the Department except 416. It is a required course in Nursing, Pharmacy, Agriculture, and Home Economics.

7½ hours lectures and 7½ hours laboratory a week—3 units.

Dr. T. H. Blackburn, Dr. R. A. J. Warren

MUSIC

101. Elementary Theory. (B)

A general course for Education majors and teachers which covers all fundamentals of musicianship.

For credit only in the Faculty of Education.

Ten hours lectures a week—3 units.

Mr. D. Robbins

120. History of Music I. (C)

The development of music from classical Greece to circa 1650.

Ten hours lectures a week—3 units.

Mr. T. Bailey

302. Instrumental Techniques. (B)

Instruction in the playing and teaching techniques of strings, brasses, woodwinds.

For credit only in the Faculty of Education.

Prerequisite: Music 201.

Pre-reading recommended: "Instrumental Music" - Kuhn - Allyn & Bacon; "Getting Results with School Bands" - Prescott and Chidester - Carl Fischer.

Limited to 20 students.

Ten hours lectures a week—3 units.

Dr. A. E. Clingman

303. Choral Music. (B)

Principles and techniques of choral music.

For credit only in the Faculty of Education.

Prerequisite: Music 201.

Ten hours lectures a week—3 units.

Mr. D. C. Gibbard

320. History of Music II. (A)

The development of music from circa 1600 to the present day.

Ten hours lectures a week—3 units.

Mr. J. E. Sawyer

326. Music Appreciation. (A)

Designed for senior students with little or no musical background.

Pre-reading recommended: Aaron Copland: "What to Listen for in Music."

Limited to Third or Fourth Year students.

Ten hours lectures a week—3 units.

Mr. H. Adaskin, Mr. J. S. Chappell

339. Opera Workshop I. (A)

Preparation of and participation in excerpt scenes and complete production of operatic works of varied repertoire. Emphasis upon musical and dramatic styles and acting techniques.

Limited to 20 students.

Prerequisite: Pre-registration audition required.

This course will be given 7 - 10 p.m., Monday through Friday.

Fifteen hours lectures a week—3 units.

Mr. F. A. Tickner

401. Orchestration and Arranging. (A)

Some of the techniques of scoring for woodwinds, strings, brasses, percussion, separately and together in bands, stage bands and orchestra.

For credit only in the Faculty of Education.

Limited to 25 students.

Prerequisite: Music 201.

Pre-reading recommended: Any ele-

mentary book on acoustics.

Ten hours lectures a week—3 units.

Mr. R. E. DeCoursey

439. Opera Workshop II. (A)

A continuation of Music 339.

Limited to 20 students.

Prerequisite: Pre-registration audition and discussion required. This course will be given 7 - 10 p.m., Monday through Friday.

Fifteen hours lectures a week—3 units.

Mr. F. A. Tickner

PHILOSOPHY

100. Introduction to Philosophy. (A)

Some influential philosophical writing and doctrines will be studied as an introduction to the problems and methods of Philosophy. Some of the problems to be studied are: the relation of body and mind, appearance and reality, what is knowledge; what is truth, what is right or ethical, is God dead or alive.

Ten hours lectures a week—3 units.

301. Ethics. (C)

A study of some major problems in moral philosophy and some related problems in political philosophy such as utilitarianism, emotivism, egoism, freedom and authority.

Ten hours lectures a week—3 units.

PHYSICAL EDUCATION

NOTE: Courses in Physical Education may not be taken for credit toward the B.A. or B.Sc. degrees.

201. Gymnastics II. (A)

Tumbling and apparatus, rhythmical gymnastics, teaching methods and techniques.

Limited to 30 students.

Pre-reading required: Hughes, Gymnastics for Girls - A Competitive Approach for Teacher and Coach, Ronald Press Co.

One hours per day—1 unit.

Mrs. B. Gordon

202. Gymnastic Activities IB (Men). (A)

Tumbling and apparatus, teaching methods and techniques.

Limited to 30 students.

Pre-reading required: Hughes, Gymnastics for Men, Ronald Press Co.

One hour per day—1 unit.

Mr. E. H. M. Gautschi

203. Conditioning Programmes (Men/Women). (A)

Conditioning exercises, fitness assessment, adaptation of exercise programmes, teaching methods and techniques.

Pre-reading required: Atlas to Human Anatomy (Colorprint). American Map Co. Inc., New York.

Pre-reading recommended: D. K. Mathews, Measurement in Physical Education, W. B. Saunders Co., Philadelphia.

One hour per day—1 unit.

Mrs. B. Gordon

210. Basketball. (A)

Skills, rules, offensive and defensive tactics, teaching methods and techniques.

Limited to 50 students.

Pre-reading required: P. Newell and J. Benington, Basketball Methods.

One hour per day—1 unit.

Mr. N. N. Korchinsky

213. Field Hockey. (B)

Skills, rules, offensive and defensive tactics; teaching methods and techniques.

One hour per day—1 unit.

Miss B. Schrodt

214. Rugby. (C)

Skills, rules, offensive and defensive tactics, teaching methods and techniques.

One hour per day—1 unit.

Mr. D. E. Spence

218. Games, Contests and Relays. (A)

Individual, pair, team and group activities; teaching methods and techniques.

Limited to 35 students.

One hour per day—1 unit.

Miss B. Schrodt

219. Volleyball. (A)

Skills, rules, offensive and defensive tactics, teaching methods and techniques.

Limited to 40 students.

Pre-reading required: Canadian Vol-

leyball Annual and Rule Book, 1964.

Pre-reading recommended: R.C.A.F., How to Play Better Volleyball, (Queen's Printer).

One hour per day—1 unit.

Mr. D. E. Spence

226. Tennis. (C)

Skills, rules, tactics, teaching methods and techniques.

Limit 25 students.

Pre-reading required: Tennis by J. Johnson & P. Xanthos. Physical Education Series, Wm. C. Brown Company.

One hour per day—1 unit.

Mr. E. F. Broom

230. Swimming. (A)

Water safety, strokes, skills, entries, survival techniques, teaching methods and techniques.

Limited to 20 students per section.

Pre-reading required: The Water Safety Manual of the Canadian Red Cross.

NOTE: Non swimmers should not register for this course. Such persons should consult Mr. J. B. Pomfret for a special programme.

1 hour per day—1 unit.

Mrs. B. Gordon, Mr. N. N. Korchinsky

240. Dance. (A)

A composite course of folk, square and ballroom dancing, teaching methods and techniques.

One hour per day—1 unit.

Mrs. M. E. Penney

243. Square Dance. (B)

Square and couple dances, teaching methods and techniques.

One hour per day—1 unit.

Mrs. M. E. Penney

250. Track and Field I. (A)

Running, jumping, throwing, hurdling, kinesiological and mechanical principles, conditioning activities, teaching methods and techniques.

Limited to 30 students.

Pre-reading recommended: J. B. Powell, Track and Field for Teachers and Coach; D. L. Pugh and D. C. V. Watts, Athletics for Women; Amateur Athletic Association's Instructional Booklets; Modern Track and Field, K. Doherty.

One hour per day—1 unit.

Mr. E. F. Broom

260. Principles of Physical Education. (A)

A study of physical education as a profession; principles, nature and scope, objectives and their interpretations.

Limited to 40 students.

Pre-reading required: Physical Education, 3rd ed., Oberteuffer and Ulrich, Harper & Row, New York.

One hour per day—1 unit.

Miss S. A. Whittaker

262. Health I. (A)

An introduction to health education; body systems; growth and development, food habits and problems, personal hygiene.

Limited to 50 students.

Prerequisite: Second Year Standing or consent of Instructor.

Pre-reading required: McNaughton and Callander, Illustrated Physiology.

Pre-reading recommended: Miller and Burt, Good Health.

One hour per day—1 unit.

Mr. E. H. M. Gautschi

361. Prevention and Care of Injuries. (B)

Prerequisite: Third Year Standing.

Limited to 35 students.

Five hours lectures and 2 hours laboratory a week—1 unit.

Mr. J. L. Cartmel

363. Kinesiology. (C)

Theoretical and applied analysis of human movement in the performance of motor skills. Physical laws applied to joint and muscular action.

Limited to 30 students.

One hour per day—1 unit.

Dr. R. G. Marteniuk

460. Organization and Administration of Physical Education. (B)

A study of the problems relating to the organization and administration of physical education programmes.

Prerequisite: Fourth Year standing.

One hour per day—1 unit.

Mrs. M. E. Penney

PHYSICS

110. Mechanics, Electricity and Atomic structure. (A)

Prerequisite: Physics 11. Mathematics 120 must precede or be taken concurrently with this course.

Ten hours lectures and twelve hours laboratory a week—3 units.

Dr. L. deSobrino

200. Electricity and Kinetic Theory. (B)

Elements of D.C. and A.C. circuits, resistance, capacitance, inductance, steady state and transient responses, vector and complex number representation of sinusoidal quantities; kinetic theory of gases.

Prerequisites: Physics 110 or equivalent, or permission of the Physics Department, Mathematics 202 (may be taken concurrently).

Eight hours lectures a week—2 units.

Dr. T. J. Ulrych

219. Laboratory in Electricity and General Physics. (B)

Required of all Physics Major students, and particularly useful for students of Chemistry and experimental Life Sciences. To be taken concurrently with or following Physics 200.

Twelve hours laboratory a week—1 unit.

Dr. T. D. Ulrych

400. Atomic and Nuclear Physics. (A)

The major phenomena in the fields of atomic and nuclear physics.

Prerequisite: Physics 300 or equivalent.

Pre-reading recommended: D. L. Livesey, "Atomic and Nuclear Physics".

Ten hours lectures a week—3 units.

Dr. P. W. Martin, Dr. B. G. Turrell

POLITICAL SCIENCE

201. Foreign Governments. (C)

A comparative analysis of foreign governments, e.g., Britain, France, United States, U.S.S.R., and Japan.

Pre-reading required: G. C. Moodie: The Government of Great Britain, Methuen University (P); D. Pickles: The Fifth French Republic, Methuen University (Paperback).

Pre-reading recommended: J. Blondel: Voters, Parties and Leaders, Pelican; R. Rose: Politics in England; P. Williams: The French Parliament, G. Allen & Unwin (P); F. Ridley & Blondel: Pub. Administration in France, Routledge & Kegaan Paul.

Ten hours lectures a week July 2-July 22, inclusive—1½ units.

Dr. J. E. S. Hayward

310. Introduction to Political Behaviour. (B)

The social, cultural and psychological contexts of political behaviour; the use of survey research.

Prerequisite: Political Science 200 or 201 or 203.

Pre-reading required: B. Berelson & A. Steiner, Human Behaviour, shorter edition (Harcourt Brace); R. Lane, Political Life, Free Press paperback.

Pre-reading recommended: G. H. Weinberg, Statistics, an Intuitive Approach, Wadsworth.

Ten hours lectures a week—3 units.

Dr. J. LaPonce

413. South Asian Government and Politics. (C)

The government of South Asia with particular reference to India and Pakistan. Some attention may be given to other countries, such as Ceylon and Nepal.

Pre-reading required: P. R. Brass, Factional Politics in an Indian State, (Berkeley, 1965); Hanson, A. H., 'Power Shifts and Regional Balances' in Streeton and Lipton; The Crisis of Indian Planning, London, 1968).

Pre-reading recommended: L. I. and S. Rudolph, The Modernity of Tradition, Chicago, 1967; D. Potter, 'Bureaucratic Change in India' in Braibanti (ed.); Asian Bureaucratic Systems emergent from the British Tradition (Durham, 1966).

Ten hours lectures a week—3 units.

Mr. W. H. Morris-Jones

416. French Government. (C)

The nature of politics and the conduct of government in contemporary France.

Pre-reading required: S. Hoffmann et al: In Search of France, Harvard, U.P.; M. Harrison: French Politics, D. C. Heath (forthcoming).

Pre-reading recommended: P. Williams: Crisis and Compromise, Longmans; P. Avril: Le Regime Politique de la Ve Republique, Paris, Prechon et Durand-Augias.

Ten hours lectures a week July 23-August 15, inclusive—1½ units.

Dr. J. E. S. Hayward

PSYCHOLOGY

100. Introductory Psychology. (A)

A survey of the areas and methods of psychology with emphasis upon the basic processes in animal and human behaviour: Topics covered include learning, sensation, perception, biological bases of behaviour, personality and social psychology.

Ten hours lectures a week—3 units.

200. Experimental Psychology. (B)

The principles and methods of experimental Psychology; use of elementary statistics in analysis of data; laboratory demonstrations.

Limited to 50 students.

Prerequisite: Psychology 100.

Pre-reading required: Barry F. Anderson, The Psychology Experiment, Wadsworth Publishing Company.

Ten hours lectures and laboratory a week—3 units.

Dr. R. S. Corteen

206. Dynamics of Behaviour. (A)

An experimental, dynamic and social approach to behavioural adjustment with special reference to applications.

Prerequisite: Psychology 100 or equivalent.

Pre-reading recommended: Ulrich, R., Stachnik, T., Mabry, J., Control of Human Behavior, Scott Foresman & Co., Glanville, Illinois, 1966.

Ten hours lectures a week—3 units.

Dr. J. Schubert

305. Personality Theory. (A)

Approaches to personality theory, principal theoretical problems, theories of personality as represented by psychological systems.

Prerequisite: Psychology 200 or 206 or permission of instructor.

A reading list will be provided.

Ten hours lectures a week—3 units.

Dr. E. I. Signori

400. Abnormal Psychology. (B)

The definition, history and scope of deviant behavior with emphasis on the psychological factors that control its origins, maintenance and modification.

Pre-reading required: Holmes, D. S., Reviews of Research in Behavior Pathology, Wiley, 1968.

Pre-reading recommended: Buss, A. H., Psychopathology, Wiley.

Ten hours lectures a week—3 units.

Dr. K. D. Craig

RUSSIAN

180. Intensive Summer Workshop in Russian. (C)

Students will be given instruction in language which in scope will correspond to Russian 100 and 200 or Russian 110 and offered an opportunity to integrate their newly acquired knowledge in an all Russian environment specially created for the program. Russian born instructors and language laboratory will be used together with recreational facilities.

No pre-reading or knowledge of language required.

The course carries *6 units of credit* and students enrolled in it will be involved all through the day and cannot take any other courses.

Mr. J. J. Solecki

SOCIOLOGY

306. Socialization. (B)

Analysis of the acquisition and loss of membership in social groups, stages in the learning of social roles, and of the institutions concerned with the socialization of adults and children.

Prerequisite: Sociology 200.

Ten hours lectures a week—3 units.

412. Introduction to Sociological Problems. (C)

A discussion of basic and recurring issues and problems in social analysis. Problems of order and conflict, differentiation and stratification, deviance and control.

Ten hours lectures a week—3 units.

Dr. T. Duster

425. Urban Sociology. (C)

Demographic, behavioural and organ-

izational aspects of urban structures and of urbanization in different societies and periods.

Ten hours lectures a week—3 units.

Mr. G. Gray

SPANISH

100. First Year Spanish. (A)

Grammar, composition, translation, oral practice.

Ten hours lectures a week—3 units.

Mr. J. G. Bruton

200. Second Year Spanish. (A)

Composition, translation and oral practice.

Prerequisite: Spanish 100 or equivalent.

Pre-reading required: Short Stories in Spanish: Cuentos hispanicos (Penguin Parallel Text). Examination, at *beginning* of course, to be written in Spanish on the eight Spanish short stories.

Ten hours lectures a week—3 units.

Mr. J. A. McDonald

THEATRE

300. Theatre Practice. (A)

(a) Acting: the fundamentals of inner technique to create character, speech and movement as external techniques to project character, improvisations and class presentation of short scenes for practical application of inner and external techniques.

For credit in the Faculties of Arts and Education.

Limited to 20 students. Registration permitting, a small number of recommended non-credit students may be admitted to this course. (Application for admission of non-credit students must be made to the Department of Theatre not later than May 10, 1969).

Pre-reading required: David Magarshack, Stanislavsky on the Art of the Theatre, pp. 11-87.

Ten hours lectures a week. Extra rehearsals as arranged—3 units.

Mr. S. A. Weese

301. Children's Theatre. (B)

The creative approach to drama with children and to theatre for children in the elementary school. For credit in the Faculty of Education.

Limited to 35 students.

Ten hours lectures a week—3 units.

Miss J. S. Stevenson

320. History of Modern Theatre. (C)

The development of Western theatre since 1700, with emphasis upon the twentieth century.

Ten hours lectures a week—3 units.

Dr. K. D. Strassmann

ZOOLOGY

202. Vertebrate Zoology. (B)

A comparative study of vertebrate morphology, with emphasis on organ systems; dissection of representative forms.

Ten hours lectures and ten hours laboratory a week—3 units.

Dr. G. G. E. Scudder

SUMMER SESSION REGISTRATION—1968

Credit Courses

MEN	WOMEN	TOTAL
2864	2800	5664

EXTRA-SESSIONAL CREDIT PROGRAMMES

I. Extra-Sessional Credit Evening Courses

May 5-July 31, 2 evenings a week, 7 p.m. to 9:45 p.m. Register at the Office of the Registrar; early application is advised.

Courses are open at a reduced rate to a limited number of students who do not wish to take them for credit. *Non-credit students should register through the Extra-Sessional Division of the Department of University Extension.* Non-credit students will be expected to maintain the same schedule of readings and written assignments as the regular students but will not need to write the final examination.

ANTHROPOLOGY 200 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan, Room 219.

Introduction to Anthropology.—A comparative study of cultural institutions in the primitive world; of family and other social structures; of economics, government, language, art, religion; of the origins of man and culture, the races of mankind.

ANTHROPOLOGY 331 (Section 901)—3 units

Tuesdays and Thursdays, 7 p.m. May 6, Buchanan, Room 220.

Art and Myth in Society.—The social and technological basis of art; theories or origin, development and interpretation. Major plastic and graphic arts, mythology, music and dance of tribal and early societies.

ECONOMICS 200 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m. May 5, Buchanan, Room 221.

Principles of Economics.—The institutions and processes involved in the production and distribution of wealth; basic determinants of prices and costs, the determinants of income and employment; international trade.

Mr. M. G. Kelly

ENGLISH 200 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan 222.

Literature and Composition.—A study of literature from Chaucer to the nineteenth century and of the principles of composition. Themes and exercises are required.

Prerequisite: English 100 or Arts I.

Mr. P. Quartermain

ENGLISH 303 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan 224.

English Composition.—The principles and practices of good writing. For students in the Faculty of Education only.

Mr. A. Kilgallin

ENGLISH 303 (Section 902)—3 units

Tuesdays and Thursdays, 7 p.m., May 6, Buchanan 225.

English Composition.—The principles and practices of good writing. For students in the Faculty of Education only.

Mrs. J. Creigh

ENGLISH 311 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan 228.

Children's Literature.—A survey of children's literature from early sources to recent books. The appraisal of books and authors for children. For credit in the Faculty of Education.

ENGLISH 321 (Section 901)—3 units

Tuesdays and Thursdays, 7 p.m., May 6, Buchanan 234.

Approaches to Poetry.—Critical studies of representative English poems grouped according to form and content.

Mr. Stockholder

ENGLISH 340 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan 232.

The English Novel.—The major novelists of the eighteenth and nineteenth centuries.

Mr. B. Mayne

ENGLISH 429 (Section 901)—3 units

Tuesdays and Thursdays, 7 p.m., May 6, Buchanan 325.

Contemporary Literature.—Major figures and trends in English literature between 1914 and 1960: Eliot, Yeats, Joyce, Lawrence, Woolf, Forster, Waugh, Orwell, Auden and Thomas.

Mr. L. Whitehead

ENGLISH 454 (Section 901)—3 units

Tuesdays and Thursdays, 7 p.m., May 6, Buchanan 327.

American Fiction.—A study of the ma-

jor American novelists from Cooper to Faulkner.

Mrs. M. Ross

HISTORY 429 (Section 901)—3 units

Tuesdays and Thursdays, 7 p.m., May 6, Buchanan 314.

History of the American West.—Political, social, and economic changes in the Trans-Mississippi West from 1800.

Mr. J. Lawrence

POLITICAL SCIENCE 407 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan 315.

American Politics and Government.—The social context of American politics, voting behaviour, legislative process, executive powers, executive legislative relations, judicial behaviour and problems of policy: labour, commerce, civil rights, etc.

Mr. R. Levesque

PSYCHOLOGY 305 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan 316.

Theory of Personality.—Approaches to the theory of personality, principal theoretical problems, theories of personality as represented by psychological systems.

Mr. G. A. Marlatt

PSYCHOLOGY 405 (Section 901)—3 units

Tuesdays and Thursdays, 7 p.m., May 6, Buchanan 317.

Social Learning.—Classical and instrumental conditioning, cognitive learning, and learning by identification in the development of human behaviour.

Mr. J. C. Yuille

PSYCHOLOGY 409 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan 318.

Cognitive Processes.—Problem-solving, concept-formation, thinking, reasoning and their relationships to other functional processes.

Mr. A. S. Reber

SOCIOLOGY 200 (Section 901)—3 units

Tuesdays and Thursdays, 7 p.m., May 6, Buchanan 319.

Introduction to Sociology.—A general introduction to the sociological analysis of selected topics: religion, work, politics, stratification, bureaucratic organizations, kinship, socialization, social roles.

SOCIOLOGY 301 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan, Room 324.

Deviance-Forms of deviance; social roles of deviants; attitudes towards nonconformity; punishment and cure; evasion of rules; contributions of deviance to the functioning of social systems.

SOCIOLOGY 315 (Section 901)—3 units

Mondays and Wednesdays, 7 p.m., May 5, Buchanan 321.

Social Stratification.—Tendencies toward equality and inequality; manifestations of inequality (occupation, education, ethnic groups, income, power) and their consequencies; theories of social class.

Mr. W. Foddy

SOCIOLOGY 410 (Section 901)—3 units

Tuesdays and Thursdays, 7 p.m., May 6, Buchanan 323.

Small Groups.—Analysis and discussion of field-studies and laboratory experiments; the contributions of this research to the development of theory.

II. Credit Courses in Japan July 1969

EXTENSION DEPARTMENT
THE UNIVERSITY OF BRITISH COLUMBIA

Three extra-sessional three unit courses for University of British Columbia credit will be offered in Tokyo, Japan, July 7 - August 12, 1969.

The courses are open to students who do not wish to take them for credit. Non-credit students should register through the Department of University Extension. Students will be expected to maintain the same schedule of readings and written assignments as the regular students but will not need to write the final examination. Credit students should be advised that the maximum credit for May-August work in any one calendar year is 6 units. Courses will be located at Sophia University, Tokyo.

Asian Studies 205
INTRODUCTION TO EAST ASIA
8:30 a.m.
Prof. Grant Goodman, University of Kansas

Introduction to Eastern Asia and the historical background of Sino-Japanese world and survey of late 19th and 20th Century East Asian history. This is a Sophia University course for which University of British Columbia credit will be granted. It is listed in the Sophia University Calendar as History 173. Modern History of the Far East.

Asian Studies 335
JAPANESE LITERATURE IN TRANSLATION
10:00 a.m.
Prof. Leon Zolbrod,
University of British Columbia

An Introduction to Japanese literature from the earliest times to the present day. This course may be taken as an alternative to English 200 except by students majoring in Japanese Language or English.

SURVEY OF JAPANESE ART
11:30 a.m.
T.B.A.

Survey of painting, sculpture, and architecture from the prehistoric through the Edo period. Emphasis will be placed on the development of Buddhist arts and architecture from the Asuka through the Late Heian period, and the evaluation of the national style in painting from the Kamakura through the Edo period. This is Sophia University course, Art 153 and although it is in some ways comparable to the University of British Columbia's Fine Arts 326, it does not include a survey of Chinese and Indian Art. Students wishing to take this course for credit may have to do additional work and be examined at the University of British Columbia. Decisions will be made on an individual basis, interviews will be arranged by the Extension Department upon request.

Schedule *(subject to change)*

July

6	(Sun.)	Depart Vancouver
7	(Mon.)	Arrive Tokyo
8	(Tues.)	Day of rest
9	(Wed.)	Orientation Tokyo tour
10	[Thurs.)	Classes
11	(Fri.)	Classes
12	(Sat.)	Classes—Welcome Party
13	(Sun.)	Saitama Trip
14	(Mon.)	School Visit
15	(Tues.)	Classes
16	(Wed.)	Classes—Imperial Music
17	(Thurs.)	Classes—Ikebana
18	(Fri.)	Classes—Stock Market
19	(Sat.)	Classes
20	(Sun.)	Overnight trip to Hakone
21	(Mon.)	
22	(Tues.)	Classes
23	(Wed.)	Classes—Tea Ceremony
24	(Thurs.)	Classes—Industrial Tour
25	(Fri.)	Classes—Noh
26	(Sat.)	Classes
27	(Sun.)	Overnight trip to Nikko
28	(Mon.)	
29	(Tues.)	Classes
30	(Wed.)	Classes—Art around town
31	(Thurs.)	Classes—Religious Centres

August

1	(Fri.)	Classes—Meiji Shrine
2	(Sat.)	Classes
3	(Sun.)	
4	(Mon.)	Kamakura Trip
5	(Tues.)	Classes
6	(Wed.)	Classes
7	(Thurs.)	Classes
8	(Fri.)	Classes
9	(Sat.)	Classes
10	(Sun.)	
11	(Mon.)	
12	(Tues.)	Examinations

Note: Classes will meet for two sessions on some days.

Tuition Fee per course

$100 for credit $ 55 for non-credit

Basic Costs in Japan

$460, includes: tours in and around Tokyo, weekend trips to Nikko and Hakone, board and room from July 7 to August 12 in Sophia University residence halls. Air conditioned accommodation is available at the nearby New Otani Hotel for couples and elderly people at a reasonable extra charge.

Group Departure via CPA

Will be arranged for those who desire it $693 - Flight 401, leaving Vancouver Sunday, July 6. Return open-ended.

There are numerous tours of Japan and Southeast Asia available after August 12. Information regarding these is easily obtainable from English speaking representatives of Japanese Travel Agencies. Sophia

University also, in co-operation with a travel agency, offers the following field trips:

Trip I. Southern Japan August 13 - August 20

Trip II. Southeast Asia August 13 - August 25

Registration Procedure

Complete and return the attached Application for Registration form as soon as possible.

Students wishing to take a course for credit but who have not previously enrolled in credit courses at the University of British Columbia will then be sent Application for Admission forms (deadline March 29). Admitted students, credit and non-credit, will receive course Registration forms. (deadline May 15).

The $50 deposit less an administration charge of $3 will be refundable up until June 6, after that date only if admission to course is refused.

APPLICATION FOR REGISTRATION

CREDIT COURSES IN JAPAN—JULY 1969

Mr./Mrs./Miss _____
(please print)

_____

Address: _____

Occupation: _____

Birthdate: _____
day/month/year

Daytime Telephone _____

Evening Telephone _____

Please check

☐ I have previously enrolled in credit courses at The University of British Columbia.

☐ I have NOT previously enrolled in credit courses at The University of British Columbia.

I wish to take the following course or courses:

☐ Introduction to East Asia for credit

☐ Introduction to East Asia for non-credit

☐ Japanese Literature in Translation for credit

☐ Japanese Literature in Translation for non-credit

☐ Survey of Japanese Art for credit

☐ Survey of Japanese Art for non-credit

This application for Registration must be accompanied by a $50 deposit cheque. Please make cheque payable to The University of British Columbia. Mail form and deposit to: Department of University Extension, University of British Columbia, Vancouver 8, B.C.

ADVANCE NOTICE
July 1970

Credit Courses in the Field
Japan
Peru

Asian Studies credit courses in Japan and a Geography credit course in Peru are planned for July 1970.

Persons wishing to take a course on a non-credit basis may also apply.

A detailed brochure will be available upon request in the Fall. Call 228-2181 or write Extra-Sessional Credit Courses, Extension Department, University of British Columbia, Vancouver 8.

III. Correspondence Credit Courses

Students are reminded that the following correspondence courses are available this time of year: Economics 306, Education 412, History 212, History 326, Philosophy 100, Political Science 200, Psychology 100, Psychology 206.

Knowledge of the availability of these courses may assist students in planning their programmes of studies. Further information on these, as well as correspondence courses offered September to April only, may be obtained by writing to the Secretary, Correspondence Courses, Department of University Extension, University of British Columbia, Vancouver 8.

INTENSIVE COURSES IN SPOKEN FRENCH

For registration please make cheque payable to the University of British Columbia and mail to the Extension Department, The University of British Columbia, Vancouver 8, B.C.

Voix et Images de France - Premier Degre

This course utilizes the latest audio-visual methods for rapidly acquiring fluency in a foreign language. Part I, the first sixteen lessons of the Premier Degre Voix et Images de France, enables the student with no previous knowledge or whose previous studies in French have been grammatical rather than oral to acquire a sound basis for understanding and speaking French. Part I offers a limited proficiency. Entry into Part II, lessons 17-32, will be restricted to those who have successfully completed Part I or its equivalent. *Classes will be limited to 22 students and instruction will be five days a week. Classes will be organized only if seventeen or more wish to enrol.*

Section I - Part I, Lessons 1-16

Prerequisite: At least one year High School French.
July 2 - July 22
Room B.1, Extension Annex (next to Extension Department)
9 a.m. - 1 p.m. (four hours per day)
Fee: $80.00, includes records and books.

Section II - Part II, Lessons 17-32

Prerequisite: Part I or its equivalent.
July 23 - August 12
Room B.1, Extension Annex (next to Extension Department)
9 a.m. - 1 p.m. (four hours per day)
Fee: $80.00, includes records and books.

Voix et Images de France - Deuxieme Degre (Advanced)

The Deuxieme Degre offers the student an opportunity to increase his conversation ability. Pictures and records used in the Premier Degre are withdrawn. At this level the student relies on his auditory ability to acquire mastery of taped dialogues which are the basis for conversation. Dialogues emphasize more idiomatic forms and a vocabulary pertaining to discussion, opinion and judgment.

Class will be limited to 17 students and instruction will be five days per week for the month of July.

Section III - Advanced

Prerequisite: Premier Degre, University French or its equivalent.
July 2 - July 31.
Room B.1, Extension Annex (next to Extension Department)
1:30 p.m. - 3:30 p.m.
Fee: $60.00

INTENSIVE ENGLISH COURSE FOR FOREIGN STUDENTS

July 2 - August 14
8:30 a.m. - 11:30 a.m.
Instructor: Mrs. Joyce Searcy
Fee: $130.00
Enrollment limited.

An intensive course in spoken and written English to help university-level foreign students improve their proficiency in English. Techniques used in the course will apply the principles and research of modern linguistic science to the teaching of English. The course is intended to help adults master the pronunciation, intonation and grammatical patterns of spoken English and the skills of reading and writing. As well as the three hour lecture period and one hour in the language laboratory, students will be required to do reading and writing assignments.

This is not a beginners course, it will be assumed that English has been studied in the students' native country.

The enrolment will be limited so that attention can be given to individual requirements. The course is non-credit and will not guarantee admittance to a university.

SOCIAL WORK

Summer Institutes 1969

Sponsored by the School of Social Work in cooperation with the Extension Department, University of British Columbia.

These non-credit courses are designed for qualified, experienced social workers. Preference will be given to persons having the M.S.W. degree. Early application is advisable, since registration will be limited.

All courses will be held in the School of Social Work on the Campus of the University of British Columbia.

(Accommodation is available in Totem Park residence on the U.B.C. Campus. Write to the Housing Administration, University of B.C., Vancouver 8, B.C.)

For further information write to Continuing Education in Social Work, Extension Department, University of British Columbia, Vancouver 8, B.C.

1. Community Development and Planned Social Change, June 23 - 27

Dr. Roland L. Warren, Professor of Community Theory, Florence Heller Graduate School of Advanced Studies in Social Welfare, Brandeis University, Waltham, Mass.

The purpose of the institute is to examine change strategies in the light of a consideration of the structure of American communities, their relation to the larger society, and the larger social changes which take place in essentially unplanned fashion.

Fee: $45.00 Registration deadline June 12, 1969.

2. Family Diagnosis and Treatment, July 21 - 25

Mrs. Frances H. Scherz, Director of Casework, Jewish Family and Community Service, Chicago, Ill.

Focus will be on the "why" of Family Therapy as a treatment method, how to arrive at a diagnosis of specific family dysfunction, guidelines for selection of families for family unit therapy, combined therapy (marital pair, family unit, individual), shifts in treatment methodology and the role of the worker.

Fee: $50.00 Registration deadline July 10, 1969.

3. Casework With Character Disorders, July 28 - August 1

Mrs. Frances H. Scherz, Director of Casework, Jewish Family and Community Service, Chicago, Ill.

Consideration will be given to the theoretical basis of character formation, how character disorders develop, their behavioral manifestations, and methods and techniques of treatment with individuals and families. Short and long term treatment aspects will be discussed.

Fee: $50.00 Registration deadline July 10, 1969.

PUBLIC AFFAIRS

For the interest of Summer Session students and the community at large, several lecture and seminar programmes in the public affairs field will be presented. These programmes will utilize visiting faculty and other guests of the university.

Further detail will be available after May 15 by contacting:

Public Affairs
Programmes
Extension Department
University of British Columbia
Vancouver 8, B.C.
Phone 228-2181

PRIMARY INDUSTRIES

6th Western Canadian Roadside Development Conference
June 11-13, 1969 at Totem Park, UBC

This Conference originated with the objective of achieving a coordinated approach to highway development. Such an aim encompasses a concern for the total environmental concept and therefore should appeal to a wide spectrum of professional groups. A total of nine such associations currently co-sponsor the Conference which conducts an associated research programme.

The theme this year is "The Rural Highway and the Developing Community". Talks and discussion under this heading will include plant materials for noise abatement, preservation of land corridors, highway location, land values and community development, and the effect of highways on wilderness areas.

An interesting day tour will include a visit to the Hope-Princeton slide area, a new highway interchange at Hope and end with a salmon barbecue at Pitt Meadows.

For brochure and information write or phone:

Primary Industries
Department of Extension
University of British Columbia
Vancouver 8, B.C.
Phone: 228-2181

JAPAN 1969

Across the Pacific, a few hours by jet plane, is New Japan with its nearly 100,000,000 people, its burgeoning modern industry and its rapidly expanding foreign trade and investment. Steeped in ancient tradition and with a rich cultural heritage, Japan has for years been a tourist mecca. Today Japanese trade is increasing and more and more Japanese capital being invested in British Columbia, Alberta and other parts of Canada. In this confluence of cultures there is growing interest in Japan's history, its traditions, language and more importantly, its present social life and institutions.

The 1969 Extension Department Japan Education-Travel Tour is designed especially for professional educators and others interested in Japan's educational institutions, but will also include a close look at many other aspects of Japanese society. The programme will be divided into two principal phases:

PHASE 1 A series of orientation lectures at the University of British Columbia on Japanese history, culture, economy, educational, social and political institutions and language. Tapes of these lectures are available.

PHASE 2 Four weeks of travel and study in Japan. The tour will include visits to educational, cultural, industrial and governmental institutions, entertainment at Japanese theatre; some experience of living in Japanese inns and eating Japanese food; and seminars and individual discussions with Japanese in many walks of life. The itinerary will include Tokyo, Nikko, Kyoto, Nara, a few days in the Osaka-Kobe industrial heart of Japan and trips along the picturesque sea-coast and through rural Japan.

The tour will leave Vancouver about May 2, returning June 1. Total cost will be approximately $1,500. including orientation lectures, air fare and transportation, hotels, meals, and special events in Japan. The air ticket is open-ended to permit extended travel.

Details of the orientation course, seminars and tour itinerary are available on request. Write: Japan Educational Travel Programme 1969, Extension Department, U.B.C. Tel. 228-2181

EXPO '70 - OSAKA

Japan now vies with West Germany for third place amongst the world's industrial powers. After the United States and Britain, Japan is Canada's next largest trading partner. Japanese investment in the development of Canada's natural resources and in our manufacturing is rapidly increasing.

This Educational Travel Programme being offered by the U.B.C. Extension Department offers opportunity to tour Japan, to see achievements of the nations of the world and Japan at its industrial and commercial epicenter in Osaka at Expo '70.

The 1970 Japan Educational Travel Programme will include a general orientation course on Japan, a series of special interest seminars and a four week specially planned tour of Japan, which will include several days' visit to Expo '70, Osaka. The tour will leave Vancouver early in May. All-inclusive cost will be about $1300.

To obtain a place on the tour, registration must be made *before October 31*, 1969. Deposit on registration $100.

SUMMER INSTITUTE FOR TEACHERS - 1969

A Residential Conference on Home Economics

- Theme - "The Dynamics of the Family"
- July 14 - 18, U.B.C. Campus

A Workshop on Film Production and Film Study for Teachers

- July 14 - 25, U.B.C. Campus

Fulcrum II - Studies in Fine Arts Education

- a course for elementary school teachers
- July 7-18, 1969, Rockwoods, W. Vancouver

Other Courses Planned for Summer 1969

Sensitivity Training for Family Life and Sex Educators
Human Relations Training for School Administrators
Education for Young Children Symposium
A Seminar on the Changing Secondary School
Reading and Study Skills Centre - Summer Programme

For information on these and other courses planned for Summer 1969 contact Education-Extension, Extension Department. U.B.C.

THE MOORISH WORLD
An Educational-Travel Programme - May 6-27

The Moorish World of Southern Spain, Morocco, Libya and Tunisia embraces a past and present of little-known but extensive influence on Western culture. Earlier civilizations of Phoenecians, Romans, Byzantines, Moors, Jews and Christians reveal contributions. The tremendous beauty of the region, its art, architecture, and the significant foundations of culture that have been transmitted to the West make the Moorish World a fertile and exciting area for educational-travel.

The leadership of two noted authorities, Prof. William Nicholls and Prof. Hanna Kassis, from The University of British Columbia will provide participants with a total learning experience throughout the tour. The two men combine the disciplines of archaeology, classical studies, religious history and intimate knowledge of the Western Mediterranean area. Informal seminars and discussion and day-to-day involvement with the resource scholars form an integral part of the programme.

The programme is divided into two phases:

A series of orientation lectures at The University of British Columbia (noted below) and three weeks of travel and study in Southern Spain, Morocco, Libya and Tunisia. The tour is designed to "reconstruct" the remarkable Moorish World and examine the interaction of Muslim, Jew and Christian, and to unfold these influences

evident today in the West. The itinerary includes: visits to places well-known and to those seldom encountered; magnificent ruins such as those of Leptis Magna and Carthage; visits to universities and industry; mosques, souks, and museums; Sahara oases; contact with traditional customs and present-day life styles; current social, political and economic climates of the regions. The tour will stop over in Madrid for a day and then proceed to Toledo, Seville, Cordoba, Granada. From Southern Spain by ferry across the Strait of Gibralter to Moracco stopping at Fez, Meknes, Marrakesh and Casablanca. A side trip to Libya to survey the ruins of Leptis Magna, then on to Tunisia for the remainder of the time visiting points of interest as far south as the Island of Djerba.

Total cost of the programme is $1,500. This includes lectures, travel costs, hotels and meals, entertainment and tips. Registrants pay only for drinks, personal purchases and unscheduled trips or entertainment. The tour will fly CPA from Vancouver to Madrid.

OFFICE OF SHORT COURSES AND CONFERENCES

This Office presently serves faculty and community in several ways. The routine business includes all of the physical aspects of Conferences or Short Courses held on campus. Such items as meeting rooms, meals, sleeping accommodation, signs, etc. are coordinated here.

Accommodation is available for groups in Totem Park Student Residences. Daily room and board rates: $10 (sharing double room); $11 (single room). Reservations have to be made through the Office of Short Courses and Conferences.

For further information contact:

Office of Short Courses
and Conferences.
Department of Extension.
University of British
Columbia.
Phone 228-2181.

Diploma Programme in Adult Education

The Faculty of Education and the Department of University Extension jointly offer a Diploma in Adult Education. This programme is designed for persons who wish to acquire the skills and knowledge required to organize, conduct, evaluate and generally administer programmes in adult education but who, for a variety of reasons, do not wish to pursue a graduate degree. Such persons may be, or wish to be, public school adult education directors, directors of training in business and industry and the like.

The programme is equal to approximately seven months of continuous study at the university but may be taken by a combination of summer session and extra-sessional courses or by full-time attendance at the university for one full academic year.

Further information concerning this programme may be obtained by writing to the Administrator, Diploma Programme in Adult Education, Department of Extension, The University of British Columbia, Vancouver 8.