SUMMER SESSION

THE UNIVERSITY OF BRITISH COLUMBIA

JULY 2 TO AUGUST 4, 1964

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REGULATIONS AFFECTING REGISTRATION IN CREDIT COURSES

1. Late fee of $20.00 assessed all registrants applying after Monday, June 1.
2. Last day for registration, new students: Monday, June 1.
3. Last day for registration, former students (including those currently enrolled for the Winter Session 1963-64): Tuesday, June 16.
4. A fee of $5.00 will be assessed each change of course made after June 1.

A REQUEST FOR A SUMMER SESSION CALENDAR DOES NOT CONSTITUTE APPLICATION FOR ADMISSION

NEW STUDENTS

1. Obtain from the Office of the Registrar an *Application for Admission* form and return it to this Office, together with the necessary documents and photograph, *before May 1*, (See Page 15).

   After the applicant's eligibility for admission has been determined, he will be sent a registration booklet.
2. Complete and return the registration booklet together with payment for fees, *before June 1*. (See page 17). REGISTRATION WILL NOT BE PERMITTED AFTER THIS DATE.

FORMER STUDENTS

Obtain from the Office of the Registrar a registration booklet and return it to this Office together with payment for fees before June 1. Students permitted to register late (between June 1 and June 16) will be assessed the late registration fee. No student will be registered after June 16.

PUBLICATIONS OF THE UNIVERSITY OF BRITISH COLUMBIA

Announcement of The Summer Session

SUPPLEMENT TO CALENDAR 1963-64

Forty-fifth Session: JULY 2 to AUGUST 14, 1964

The University of British Columbia

VANCOUVER 8, CANADA

Vol. 49, GENERAL SERIES No. 4

SUMMER SESSION, 1964

DATES

MAY		
1	Friday	Class lists for courses in which enrolment is limited will be determined on this date; no assurance can be given that any registration will be accepted for such courses after this date. Students who have not previously attended the University must have made application and submitted all necessary documents by this date.
JUNE		
1	Monday	Last day for registration without late penalty. Last day for registration of new students.
16	Tuesday	Last day for registration of former students. (Late fee assessed after June 1.)
JULY		
2	Thursday	*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	Friday	Summer Session Supplemental Examinations for 1963 will be held in the Law Building at 9:00 a.m. ***All changes in registration for courses must be reported to the Registrar's Office by this date.***
6	Monday	First of series of Library Instruction Lectures Bu.106 at 8:15, 10:25, 1:30. Series continues Tues. and Wed. at same hours.
AUGUST		
12	Wednesday	Last day of lectures.
13	Thursday	Final Examinations. There will be three examination periods each day, the third commencing in the late afternoon.
14	Friday	

*The last day for registration is June 16. 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 June 1.

The schedule of student activities sponsored by the Summer Session Association is given on page

The University offices will be closed all day each Saturday.

TIME TABLE OF LECTURES, CREDIT COURSES

Monday to Friday Inclusive

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

Course

Biology 320, Lecture
Botany 105, Lecture
Chemistry 101, Lecture
Chemistry 205, Lecture
Chemistry 430, Lecture
Commerce 101
Commerce 151, Lecture
Commerce 331
Economics 320
Education 200
Education 307
Education 309, Section A
Education 331, Section A
Education 332, Section A
Education 333
Education 400, Section A
Education 404 (English) to July 23
Education 404 (History) from July 24
Education 404 (H.Ec.), Section 1, Laboratory
Education 405, Section 1
Education 407, Section A
Education 410, (H.Ec.), to July 23
Education 410, (Ind.Arts), from July 24
Education 415, Section A
Education 417
Education 430
Education 435, (Ind.Arts), to July 23
Education 435, (H.Ec.), from July 24
Education 461, Section A
Education 491
Education 530
Education 535
Education 557
Education 558
Education 568
Education 581
Education 582
English 100, Section A
English 200, Section A
English 300, Section A
English 301, Section A
English 400, Section A
English 427
English 428
English 430
English 439
Fine Arts 101
Fine Arts 300, Lecture
Fine Arts 302, Lecture

Course

Fine Arts 402, Lecture
French 110
French 120
French 210
French 220
French 302
French 408
Geography 101, Section 1, Lecture
Geography 406
Geology 105, Lecture
German 110/120
German 302
History 201
History 426
History 429
Home Economics 102/104
Latin 120/200/210/220/407/530
Mathematics 110
Mathematics 120
Mathematics 202
Mathematics 300
Mathematics 303
Mathematics 308
Mathematics 412
Music 120
Music 320
Philosophy 202
Physical Education 101, 9:15-10:10 (July 6-August 10)
Physical Education 210, 8:15-9:10 (July 24-August 12)
Physical Education 214, 9:15-10:10 (July 2-August 6)
Physical Education 229, 9:15-10:10 (July 24-August 12)
Physical Education 240, 8:15-9:10 (July 24-August 12)
Physical Education 242, 8:15-9:10 (July 2-August 22)
Physical Education 310, 8:15-9:10 (July 2-July 22)
Physics 101, Lecture
Physics 200, Lecture
Physics 400
Psychology 308
Psychology 403
Russian 100
Zoology 105, Lecture
Zoology 302, Lecture
Zoology 419, Lecture, 8:15-9:10

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

Asian Studies 310
Asian Studies 320
Asian Studies 410
Botany 105, Laboratory
Chemistry 300, Lecture
Chemistry 430, Discussion 11:15-12:20
Classical Studies 331
Classical Studies 333
Commerce 90
Commerce 151, Laboratory
Commerce 261
Commerce 371

Course

Commerce 376
Creative Writing 202
Economics 200
Education 301
Education 308
Education 309, Section B
Education 331, Section B
Education 332, Section B
Education 400, Section B
Education 404 (Geog./S.S.), to July 23
Education 404 (Math.), from July 24
Education 404 (H.Ec.), Section 2, Laboratory
Education 405, Section 2
Education 408
Education 411, Section A
Education 412
Education 414
Education 415, Section B
Education 419
Education 428
Education 460, Section A
Education 462
Education 470
Education 490
Education 521
Education 523
Education 556
Education 560
Education 565 (Math.)
Education 565 (Chem.), see Chem. 430
Education 565 (Phys.), see Phys. 430
Education 578
English 100, Section B
English 200, Section B
English 300, Section B
English 301, Section B
English 400, Section B
English 431
English 434
English 440
English 539
Fine Arts 128, Lecture
Fine Arts 300, Laboratory
Fine Arts 302, Laboratory
Fine Arts 432
French 223
Geography 101, Section 2, Lecture
Geography 201
Geography 303
Geography 305
Geology 105, Laboratory

Course

German 90
German 200
German 400
History 202
History 305
History 410
Home Economics 201/310
Home Economics 421
International Studies 400
Italian 100
Italian 200
Mathematics 306
Music 101
Music 201
Music 302
Music 303
Philosophy 100
Philosophy 304
Physical Education 140, 11:25-12:20 (July 24-August 12)
Physical Education 212, 11:25-12:20 (July 2-July 22)
Physical Education 218, 10:25-11:20 (July 2-July 22)
Physical Education 230, 12:30-1:25 (July 24-August 12)
Physical Education 244, 10:25-11:20 (July 2-July 22)
Physical Education 245, 10:25-11:20 (July 24-August 12)
Physical Education 250, 11:25-12:20 (July 2-July 22)
Physical Education 251, 11:25-12:20 (July 24-August 12)
Physical Education 260, 2:35-3:30 (July 2-August 12)
Physical Education 262, 10:25-11:20 (July 2-August 12)
Physical Education 301, 11:25-12:20 (July 24-August 12)
Physical Education 313, 10:25-11:20 (July 24-August 12)
Physical Education 330, 12:30-1:25 (July 2-July 22)
Physics 300, Lecture
Physics 430
Political Science 200
Psychology 305
Psychology 405
Russian 200
Spanish 100
Spanish 200, Lecture
Theatre 310
Zoology 302, Laboratory

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

Anthropology 200
Anthropology 400
Bacteriology 200, Lecture
Biology 105, Lecture
Biology 320, Laboratory, 1:30-5:30
Botany 331, continues to 4:30, T.Th.
Chemistry 101, Laboratory, 1:30-4:30
Chemistry 205, Laboratory 1:30-4:30
Chemistry 300, Laboratory, 1:30-4:30
Chemistry 430, Laboratory, 1:30-4:30
Economics 300
Education 305, Lecture

Course

Education 331, Section C
Education 336
Education 390
Education 404 (Com.)
Education 404 (H.Ec.)
Section 1, M.W.F., Lecture
Section 2, M.T.Th., Lecture
Education 404 (Guidance), to July 23
Education 416
Education 430
Education 559
Education 574
English 100, Section C
English 200, Section C
English 300, Section C
English 406
English 413
English 424
Fine Arts 125
Fine Arts 128, Laboratory, 1:30-5:30
Fine Arts 303/403/413
Fine Arts 401, Lecture
Geography 303, Section 2, Lecture
Geography 409
History 204
History 318
Home Economics 102/104, Laboratory, M.W.

Course

Home Economics 201/310, Laboratory, T.Th.
Italian 305
Mathematics 201
Mathematics 203
Mathematics 305
Mathematics 310
Music 326
Music 401
Physical Education 226, 1:30-2:25 (July 2-July 22)
Physical Education 316, 1:30-2:25 (July 24-August 12)
Physical Education 462, 1:30-2:25 (July 2-August 12)
Physical Education 470, 2:35-3:30 (July 2-August 12)
Physics 101, Laboratory 1:30-4:30
Physics 200, Laboratory 1:30-4:30
Physics 300, Laboratory 1:30-4:30
Political Science 303
Psychology 100
Psychology 206
Russian 300
Sociology 200
Sociology 405
Theatre 301
Zoology 105, Laboratory
Zoology 419, Laboratory, 1:30-4:30

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

Bacteriology 200, Laboratory
Biology 105, Laboratory
Education 305, Laboratory
Fine Arts 303/403/413, Laboratory
Fine Arts 401, Laboratory
Fine Arts 402, Laboratory
Home Economics 102/104, Laboratory M.W.
Home Economics 201/310, Laboratory T.Th.
Physical Education 209, 3:45-4:45 (July 24-August 12)
Physical Education 219, 3:45-4:45 (July 2-July 22)
Physical Education 470, Laboratory 3:45-4:45 (July 2-August 12)
Spanish 200, Laboratory 3:45-4:45

NOTES:

Examination Schedule

8:30 a.m., Thursday, August 13—courses in which lectures scheduled during session in period 8:15-10:10 a.m., except sectioned classes.

12:00 noon, Thursday, August 13—English 100, English 200, English 300, English 400.

3:30 p.m., Thursday, August 13—courses scheduled in lecture period 1:30 3:30 p.m., except sectioned classes.

8:30 a.m., Friday, August 14—courses scheduled in lecture period 10:25 a.m. 12:20 p.m., except sectioned classes.

12:00 noon and 3:00 p.m., Friday, August 14—reserved for examinations a needed to meet special requirements, including courses in which classes ar sectioned.

Physical Education Activity Courses

The examinations for courses scheduled from July 2 to July 22 will be hel on July 23.

The examinations for courses scheduled from July 24 to August 12 will be held on August 13 or 14.

The examinations for P.E. 101 will be held on August 11.

All classes meet initially in the War Memorial Gymnasium.

REGULATIONS AFFECTING COURSE CHANGES

Any change in study programme other than the dropping of a course 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, June 1 (June 16 for former 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.

NEW REGULATIONS AFFECTING SUPPLEMENTAL EXAMINATIONS

Supplemental examinations for courses of the 1964 Summer Session and future Summer Sessions will be held in December. Before this year supplemental examinations were held during the first week of the following Summer Session.

It is anticipated that the examinations will be held on the afternoon of Friday, December 11, 1964. 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.

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JOHN M. CROWLEY, M.Sc., Institut de Geographie, Laval University.
JEROME D. FELLMANN, B.S., M.S., Ph.D., Professor of Geography, University of Illinois.
WALTER G. HARDWICK, M.A., Ph.D., Assistant Professor.
ROWLAND ILLICK, A.B., M.A., Ph.D., Chairman of Geography Dept. and Professor, Middlebury College, Vermont.
NORMAN PYE, Ph.D., Head, Dept. of Geography, University of Leicester, England.
GEORGE A. RHEUMER, B.A., Ph.D., Associate Professor, University of Illinois.
J. LEWIS ROBINSON, B.A., M.A., Ph.D., Professor and Head of the Department.

GEOLOGY

VLADIMIR J. OKULITCH, M.A.Sc., Ph.D., F.G.S.A., F.P.S., F.R.S.C., R. W. Brock Professor and Head of the Department.

GERMAN

RONALD BEAUMONT, BA., M.A., Instructor.
HERMANN BOESCHENSTEIN, Ph.D., F.R.S.C., Professor and Head of German Dept., University of Toronto.

JOHN K. HODSON, B.A., M.A., Lecturer.
GERWIN MARAHRENS, Ph.D., Assistant Professor, University of Alberta.
LESLIE L. MILLER, B.A., M.A., Instructor.

HISTORY

PAUL G. CORNELL, B.A., M.A., Ph.D., Professor & Chairman, Department of History, University of Waterloo.
PETER HARNETTY, B.A., A.M., Ph.D., Assistant Professor.
ARTHUR KEPPEL-JONES, M.A., Ph.D., Professor, Department of History, Queen's University.
VACLAV MUDROCH, B.A., M.A., Ph.D., Associate Professor, Carleton University.
JOHN M. NORRIS, M.A., Ph.D., Associate Professor.
ROBERT E. RUIGH, B.A., M.A., Assistant Professor, Loyola College, Montreal.

HOME ECONOMICS

MRS. JUDITH K. BROWN, B.Sc., M.Ed., D.Ed., Rochester, Michigan.
MRS. I. ANNE CARROW, B.A., M.A., Lecturer.
MISS DOROTHY J. SMITH, B.Sc., M.Sc., Instructor, University of Washington.

INTERNATIONAL STUDIES

HAROLD I. NELSON, B.A., M.A., Ph.D., Associate Professor, University of Toronto.

ITALIAN

GIOSE RIMANELLI, Dott. Lett., Lecturer.
ROBERTO RUBERTO, B.A., Lecturer.
MISS MARIA TOMSICH, B.A.

LATIN

MALCOLM F. McGREGOR, M.A., Ph.D., F.R.S.C., Professor and Head of the Department of Classics.

MATHEMATICS

THOMAS BATES, B.Sc., Lecturer.
ERIC MacPHERSON, B.A., M.A., Assistant Professor.
LEON A. ROUSSEAU, B.A., Instructor.
Other instructors to be announced.

MUSIC

EDWARD BARAVALLE, B.S., Dip. in Ed., Nelson Secondary School.
MRS. DOROTHY G. EVANS, B.A., Victoria.
DONALD C. GIBBARD, M.A., Associate Professor.
RANDOLPH HOKANSON, Associate Professor, School of Music, University of Washington.
G. WELTON MARQUIS, M.A., Ph.D., Professor and Head of the Department of Music.
GIFFORD J. MITCHELL, B.A., B.Mus., Supervisor of Music, Protestant School Board of Greater Montreal.
DOUGLAS TALNEY, B.Mus., M.Mus., Instructor.
CAMPBELL TROWSDALE, B.Mus., M.Ed., A.R.C.T., Assistant Professor.
FRED S. TURNER, B.Ed., M.Ed., Supervisor of Music, Vancouver School Board.

PHILOSOPHY

SAMUEL C. COVAL, M.A., Ph.D., D.Phil., Assistant Professor.
PHILLIP CUMMINS, Ph.D., Assistant Professor, University of Iowa.
REY OSBORNE, B.A., Lecturer.

PHYSICAL EDUCATION

S. R. BROWN, Dip. of P.E., M.S., Ph.D., Assistant Professor.
F. T. GNUP, B.S.(P.E.), Senior Instructor.
J. R. JOHNSON, B.P.E., M.P.E., Instructor.
W. L'HEUREUX, Professor, University of Western Ontario.
J. B. POMFRET, B.A., M.S., Assistant Professor.
MISS B. SCHRODT, B.P.E., M.S., Assistant Professor.
G. VINCENT, Lecturer.
H. D. WHITTLE, B.P.H.E., M.S., Ph.D., Professor.

PHYSICS

NORMAN BARTON, M.A., Assistant Professor.

POLITICAL SCIENCE

EDWIN R. BLACK, B.A., M.A., Ph.D., Instructor.
FRANK C. LANGDON, A.B., A.M., Ph.D., Associate Professor.

PSYCHOLOGY

KENNETH D. CRAIG, M.A., Ph.D., Assistant Professor.
A. G. DeVRIES, M.A., Ph.D., Assistant Professor.
ROBERT D. HARE, M.A., Ph.D., Assistant Professor.
DONALD L. G. SAMPSON, M.A., Ph.D., Assistant Professor.
EDRO SIGNORI, B.A., M.A., Ph.D., Professor and Acting Head of the Department.

RUSSIAN

MRS. IRINA M. REID, M.A., L.R.S.M., A.R.T.C., Assistant Professor.
COR GERARDUS SCHWENCKE, Litt. Slav. Drs., M.A., Lecturer.

SOCIOLOGY

PERCEY COHEN, Ph.D., Lecturer, Department of Sociology, The University, Leicester.
ADRIAN MARRIAGE, M.A., Assistant Professor.

SPANISH

TOMAS BARTROLI, M.A., Lecturer.
MISS CONCHA GALLOSTRA, Special Lecturer.

THEATRE

JOHN BROCKINGTON, B.A., D.F.A., Assistant Professor.
MRS. F. de BRANSCOVILLE, F.T.C.L., A.T.C.M., Edmonton.
MISS JANIE STEVENSON, L.R.A.M., L.G.S.M., A.L.A.M., Senior Instructor.
DONAL WILSON, B.A., B.Ed., M.F.A., New York.

ZOOLOGY

CYRIL V. FINNEGAN, B.A., M.S., Ph.D., Associate Professor.
R. H. P. FINEGAN, B.Sc., M.Sc., Lecturer.
PETER FORD, B.Sc., Ph.D., F.Z.S., F.L.S., Associate 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 May 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 must, in addition, request the Registrar, Department of Education, Victoria, B.C., to forward to the Registrar of the University 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 it may reach the University by May 1.

(b) Students who have previously registered in the University:
Apply by letter stating Session last attended, and programme to which admission is being sought.

(c) Those who have completed work at the University of Victoria must have a transcript of record forwarded to the Registrar by the Registrar of the University of Victoria.

2. Registration:

(a) Registration material will be sent upon request; registration booklets 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 programmes.

(b) Registration will not be considered complete unless the registration booklet is accompanied by a certified cheque or a postal or bank money-order to cover the total fee assessed.

(c) **All registrants who have not completed registration by June 1 will be assessed the late registration fee of $20.00; no registration will be accepted after June 1 from first applicants or after June 16 from former students.**

(d) A student who has established his eligibility for admission and who has completed registration 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 fully registered student.

(e) Applicants who submit a registration booklet by June 1 but who have not also submitted the necessary fees will be assessed the late fee and issued the "Library and Identification" card on payment of fees in full including the late fee of $20.00.

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) A student who has not previously registered at the University of British Columbia *will not be accepted* for enrolment in the Summer Session unless his registration is *completed in full* by June 1.

(d) Any former student who applies for admission to the Summer Session *after June 16 will not be admitted.*

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

Regulations Governing Credit Courses:

1. **The maximum credit for Summer Session work in any one calendar year is 6 units.**
2. **Credit will not be given toward the B.A. or B.Sc. degrees for courses in Commerce (except 151 and 371), Education, Home Economics, or Physical Education. In the departments 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. **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 examinations for summer session students will be held in December 1964. Supplemental privileges will not be granted students who fail the laboratory work of science or industrial arts courses.**
5. **Except for English 100 and English 200 no course may be repeated more than once.**

GRADUATION

Summer Session students expecting to complete degree requirements for the Autumn Congregation must make formal application for graduation before the last day of Summer Session. Special forms for this purpose may be obtained in the Registrar's Office. (This "application for graduation" is not to be confused with the application required by the Department of Education in Victoria for a change in teacher certification.)

The Autumn Congregation will be held on Friday, October 30. The names of successful degree candidates will be released following the meeting of the University Senate on October 21.

FEES

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.

All fees are due and payable at time of registration.

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

Registration will not be considered complete until fees are paid.

Scale of Fees

Course fees: per unit	$25.00
per half unit	13.00
Summer Session Association fee	**2.00**
Late registration fee	20.00
Each course change	5.00

For example:

(i)	3 units: tuition $75; S.S.A. $2	Total $77.00
(ii)	4½ units: tuition $113.00; S.S.A. $2	Total $115.00
(iii)	6 units: tuition $150; S.S.A. $2	Total $152.00

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 24. 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.

Special Fees

For Auditors, per unit $13.00

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.

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, for those eligible $3.00

(for duration of the Summer Session)

NON-CREDIT 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.

Students seeking credit for Extension courses where applicable must register through the Registrar's Office before June 1.

Scholarships, Bursaries, Loan Funds

(Open only to students taking regular academic courses)

University Summer Session Bursaries

Twenty 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 $100 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.

Gilbert Tucker Memorial Summer Session Prize

An annual prize of $35 is offered by the Summer Session Association in memory of Professor Gilbert Tucker, who served this University as scholar, historian, and teacher. The award will be made to the student enrolled in a history course in summer session, who, in the opinion of the Department of History, is the most outstanding. It is available for students registered in the Third or a higher year who were not in attendance in the previous winter session.

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

1964 Executive Committee

President - - - - - - Bill Lucey
Past President - - Frank McPhalen
1st Vice-Pres. - - - - - - Don Ross
Secretary - - A. A. (Bob) Ferguson
Treasurer - - - - - Howard Cross
Athletics - - - - - - - - Don Ross
Concert - - - - Isabelle Sanderson
Dance - - - Sheila Bowyer-Smyth
Resolutions - - - Colin Walters
Bulletin - - - - - - - Hugh Brown
Advertising - - - Lawrence Walker
Shop Teachers' Rep. - Dave Thompson
Exec. Secretary - - - Lynn Baldwin
Members-at-Large - - Judy Jackson, Doris Standyl, Lynne Newman, Harry Kanigan, Peter Bulatovich

The Summer Session Association of the University of British Columbia is composed of all persons in attendance at the summer session. All students are required to pay a fee of $2.00 at the time of registration except those attending non-credit, short-term courses, where a fee of $1.00 is assessed.

The Summer Session Association was formed to care for the extra-curricular, intellectual and social requirements of the summer session students, and growth and expansion down through the years have made it 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 holds two general meetings each summer. The Executive meets weekly during the session and as often as is deemed necessary throughout the year.

The office of the Summer Session Association is located in Buchanan 115 and contact may be made there any afternoon during the session. Office hours: afternoons.

Schedule of Activities

Activity	*Location*	*Time*
Social Dancing	Memorial Gym (Upper Lobby)	12:20- 1:30 Mondays
Square Dancing	Women's Gym or Buchanan Quad (depending on weather)	8:00-10:00 p.m. Weds.
S.S.A. Mixer	Brock Hall	9:30 p.m.-12:30 a.m. Fridays
Garibaldi Trip	See weekly bulletin for details	

Activities will commence the first week of Summer Session.

Tennis Courts available — no instruction, all week 2:00-5:30 p.m.

Activity Card permits five free swims, 2:00-5:30 p.m. (Instruction upon request.)

Additional information regarding the above activities may be obtained from the Summer Session Association Office in Buchanan 115.

Summer Chorus

Students are invited to participate in a Summer Chorus. This group will meet in the Auditorium of the new Education Building on Tuesdays and Thursdays at 12:30. Bring lunch.

SUMMER SCHOOL SPECIAL EVENTS CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	June 30 Fine Arts Lecture-Recital Stein/Berberian Frederic Wood Theatre **8:00 p.m.**		**July 2** Harvard Glee Club & Radcliffe Choral Soc. Buchanan Quad **8:00 p.m.**	**July 3** SSA Mixer Brock Hall **9:30 p.m.**	**July 4** Modern Chamber Music CBC Broadcast Concert Frederic Wood Theatre **8:00 p.m.**	
	July 7 Public Affairs Lecture Buchanan 106 **8:00 p.m.**	**July 8** SSA Concert Auditorium **12:30 p.m.** Square Dance Buchanan Quad **8:00 p.m.**	**July 9** SSA General Meeting Auditorium **12:30 p.m.** Recital: Denis Matthews Frederic Wood Theatre **8:00 p.m.**	**July 10** SSA Mixer Brock Hall **9:30 p.m.**		**July 12** Public Affairs Seminar "Scandinavia" Frederic Wood Theatre **7:30 p.m.**
July 13 Public Affairs Seminar "Scandinavia" International House (daily to Friday) **9:00 a.m. -** **4:30 p.m.**	**July 14** Public Affairs Lecture Buchanan 106 **8:00 p.m.**	**July 15** SSA Concert Auditorium **12:30 p.m.** Square Dance Buchanan Quad **8:00 p.m.**	**July 16** Fine Arts Lecture Robert Sperry: "Japanese Pottery" Frederic Wood Theatre **8:00 p.m.**	**July 17** High School Band Workshop Buchanan Quad **12:30 p.m.** SSA Mixer Brock Hall **9:30 p.m.**		
July 20 High School Band Workshop Buchanan Quad **12:30 p.m.**	**July 21** Fine Arts Lecture Sam Hunter: "Modern Art" Frederic Wood Theatre **8:00 p.m.**	**July 22** SSA Concert Auditorium **12:30 p.m.** Square Dance Buchanan Quad **8:00 p.m.** Fine Arts Lecture Sam Hunter Frederic Wood	**July 23** Fine Arts Lecture Sam Hunter Frederic Wood Theatre **8:00 p.m.**	**July 24** Seminar: "Mod- ern Painting" International House High School Band Workshop Buchanan Quad **12:30 p.m.** SSA Mixer	**July 25** Seminar "Mod- ern Painting" International House	**July 26** Public Affairs Seminar "Canada's Foreign Aid Programme" Frederic Wood Theatre **7:30 p.m.**

July 27 Public Affairs Seminar "Canada's Foreign Aid Programme" International House (daily until Friday) **9:00 a.m. - 4:30 p.m.** High School Band Workshop Brock Hall **2:30 p.m.**	**July 28** Public Affairs Lecture Buchanan 106 **8:00 p.m.**	**July 29** SSA Concert Auditorium **12:30 p.m.** Square Dance Buchanan Quad **8:00 p.m.**				
	August 4 Public Affairs Lecture Buchanan 106 **8:00 p.m.**	**August 5** SSA General Meeting Buchanan 106 **12:30 p.m.** Square Dance Buchanan Quad **8:00 p.m.** SS of Theatre Scenes Frederic Wood Studio **8:30 p.m.** Opera Workshop Excerpts Frederic Wood Theatre **8:00 p.m.**	**August 6** SS of Theatre Scenes Frederic Wood Studio **3:15 p.m.** Opera Workshop Excerpts Frederic Wood Theatre **8:00 p.m.**	**August 7** Visual Arts Exhibition Lasserre 205 **10:00 a.m. - 10:00 p.m.** SSA Mixer Brock Hall **9:30 p.m.**	**August 8** Visual Arts Exhibition Lasserre 205 **10:00 a.m. - 6:00 p.m.**	
	August 11 Public Affairs Lecture Buchanan 106 **8:00 p.m.**	**August 12** SS of Theatre Prod. Frederic Wood Theatre **8:30 p.m.**	**August 13** SS of Theatre Prod. Frederic Wood Theatre **8:30 p.m.**	**August 14** SS of Theatre Prod. Frederic Wood Theatre **8:30 p.m.**		

TRAFFIC AND PARKING REGULATIONS

Systematic regulation of traffic speed and direction, and of parking and stopping, will be enforced on the 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 motor vehicles for 1963-4 are required to register them for the Summer Session and to obtain appropriate parking permits.

Faculty and Staff will do so at the Traffic Office, situated across from the Ponderosa Cafeteria on the south side of the extension of University Boulevard, beyond the West Mall.

Students must register their motor vehicles immediately upon arrival on campus. They will register at the Traffic Office until June 30. From July 2-7 they will register at the north end of "A" lot, and thereafter at the Traffic Office.

Day Parking: Parking areas will be provided for Faculty, Staff, Students and Visitors. Areas will be clearly marked and permits, for which a fee will be charged, will be issued at the time of motor vehicle registration. Summer Session Students must park in designated student lots throughout the Summer Session.

Fees:	Faculty and Staff	$5.00
	Students	2.50
	Visitors' Pay Lots	.10 per hour
		or .60 per day
	Meters—½ hour to 2 hours	USE NICKELS ONLY

Night Parking: Regulations come into force at 5:00 p.m. A limited number of parking spaces will be marked "Faculty and Staff Only, Day and Night". Night attendants will be on duty at certain designated parking lots and drivers of motor vehicles using these lots will be charged 25c for the evening. All other designated parking areas will be available for use by the public free of charge.

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 for these lots.

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.

REDUCED RAILWAY AND BUS FARES FOR STUDENTS AND INSTRUCTORS ATTENDING SUMMER SESSION

Railway companies have in the past offered a reduction in fare from stations in Canada for summer session students, instructors, and their families. Normally, students purchase a regular one-way first-class or coach class ticket during a specified period in June and secure at that time a standard Convention Certificate. This certificate, if presented to a Ticket Agent not later than the specified date in August, entitles the holder to purchase a return ticket

at one-half of the one-way fare. Tickets for the return journey permit stop-overs and are limited to thirty days from the official closing date. Students must check with their Ticket Agents in order to learn the dates which are applicable this year.

Some bus lines offer a reduced fare equal to one and one-half of the one-way fare for the round trip. For rates and schedules consult your local agent.

LIBRARY INSTRUCTION

It is recommended that all students new to this campus attend one series of three orientation lectures to be given by the staff of the Library in Buchanan 106. Lecture 1 will be given at 8:15 a.m., 10:25 a.m. or 1:30 p.m. on Monday, July 6, Lecture 2, at the same hours on Tuesday, July 7, and Lecture 3 on Wednesday, July 8.

Lecture 1: A tour of the Library by colour slides and an introduction to the card catalogue.

Lecture 2: Use of periodical indices.

Lecture 3: Types of reference books.

UNIVERSITY HEALTH SERVICE

Wesbrook Building

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

B.C. school teachers and students from the Winter Session will have qualified for British Columbia Hospital Insurance Service coverage after three months' continuous residence in B.C.

Students from other Canadian provinces will be covered in B.C. for the duration of the Summer Session by their own provincial hospitalization plans if they are not away from their home provinces more than three months, provided their hospital insurance 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 school. The Health Service cannot assume responsibility for the treatment or investigation** of pre-existing conditions, or for pre-employment medical examinations.

HOUSING ACCOMMODATION

Housing accommodation will be available for summer session students who wish Board and Lodging in Acadia and Fort Camp Dormitories, and Permanent Men's and Women's Residences in the Lower Mall and Fort areas.

SUMMER SESSION RATES

(a) *Regular Summer Session Courses* (July 2 to August 14 inclusive)

(i) Men's Accommodation (per Session)

Acadia & Fort Camp Dormitories (Huts)		*Lower Mall Residences*	
Single Room	$113.00	Single Room	$142.00
Double Room	107.00	Double Room	135.00

(ii) Women's Accommodation (per Session)

Acadia Dorms (Huts)		*Fort Camp & Lower Mall Residences*	
Single Room	$113.00	Single Room	$142.00
Double Room	107.00	Double Room	135.00

These rates cover room from Wednesday night, July 1 to August 14, inclusive; and meals from breakfast, Thursday, July 2 to dinner, August 14 inclusive.

(b) *Non-Academic Courses & Workshops*

Short-Course students are offered accommodation as follows:

Men's Accommodation (per month)

Fort Camp Residences (Mary Bollert — 1st Floor)		*Acadia & Fort Dormitories (Huts)*	
Single Room	$90.00	Single Room	$72.50
Double Room	85.00	Double Room	67.50

Women's Accommodation (per month)

Fort Camp Residences (Mary Bollert — 2nd Floor)		*Mary Bollert Annex*	
Single Room	$90.00	Single Room	$85.00
Double Room	85.00	Double Room	80.00

(c) *Married Accommodation*

Special arrangements will be made for married couples with or without children.

(d) NOTE: The assignment is effective only if full Board and Residence payment reaches Accounting Department *by June 15th, 1964.* Students who fail to take up accommodation reserved for them will have $15.00 confiscated from their Board and Residence payment. Meal passes will be available at the Residence Attendant's Office if the above has been observed.

INQUIRIES AND APPLICATION

Inquiries and applications for all types of accommodation provided at the University should be directed to:

Office of Housing Administration,
The University of British Columbia,
Vancouver 8, B.C.

TEACHER CERTIFICATION

All enquiries concerning certification must be directed to the Registrar, Department of Education, Victoria. **Attention is drawn to the Departmental circular "Teacher Certification—March 1957" issued to all schools, or to the "1956 Bulletin of the Summer School of Education", and to the Calendar of the University.**

Normal school graduates holding the E.C. certificate may qualify for the Interim E.B. by completing either the requirements for First Year Arts and Science (Grade 13), or the requirements of the Second Year in an Education programme.

Faculty of Education students holding the E.C. certificate may qualify for the Interim E.B. by completing Second Year of their degree programme through Grade 13 or the University, or by completing the first year of a programme leading to a degree granted by the University. Grade 13 courses cannot be granted University credit after the student has qualified for the Interim E.B certificate, or completed 33 units, including teacher training, or after the student has been enrolled in two winter sessions. In doubtful cases the University Registrar should be consulted.

In general to fulfil course requirements for the Permanent E.B certificate teachers whose training was taken in a B.C. Normal School, 1955-56, or who completed or commenced professional training in the Faculty of Education prior to July 1962, must complete six units of credit in the Third Year in an Education programme (either Elementary or Secondary) or Second Year in a programme leading to some other degree. Teachers who completed B.C. Normal School training prior to July 1955 may continue to qualify for the permanent Elementary Basic certificate under the regulations applicable to them. If in doubt, consult the Registrar, Department of Education, Victoria. Students who entered the Faculty of Education after July 1962 for basic teacher training are

required to complete Elementary A requirements for permanent certification. Questions concerning the number of courses required by teachers who do not clearly fit the Department's certification regulations must be answered by the Registrar, Department of Education, Victoria.

To fulfil course requirements for the Elementary A certificate, Faculty of Education students may take *any* six courses of the twelve applicable to their degree programme beyond the requirements of the first two years.

Under current regulations teachers may qualify for higher certification by completing a particular year on a degree programme in the Faculty of Education as follows *(provided basic teacher training is included)*:

Full **Second Year**	—	Elementary B
Full **Third Year**	—	Elementary A
Full **Fourth Year**	—	Professional C
Full **Fifth Year**	—	Professional B

Teachers with an acceptable year of professional training may proceed to the Bachelor of Arts degree and qualify for certificates as follows:

Full **First Year**	—	Elementary B
Full **Second Year**	—	Elementary A
Full **Third Year**	—	Professional C
Full **Fourth Year**	—	Professional B

In general the completion of a year on other degree programmes will qualify the teacher for a higher certificate.

In the elementary programme the B.Ed. degree is awarded on completion of the Fourth Year. Holders of the B.Ed. (Elementary) degree may qualify for the P.B. certificate upon completion of a further year of work under the direction of the Director of either the Elementary or the Secondary Division.

Attention is drawn to course requirements for the degree programmes as prescribed in the Calendar of the University. Enquiries concerning University course or degree requirements should be directed to the Registrar, University of British Columbia, Vancouver.

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 pink card is provided in the Registration Booklet 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 and forms.

Full details will be found in the form enclosed with the Registration Booklet. The application for change in certification is not to be confused with the application for graduation referred to on page 16.

EMERGENCY SUMMER SESSION TEACHER TRAINING PROGRAMME FOR HOME ECONOMICS GRADUATES

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

Persons holding an acceptable Bachelor of Home Economics degree may complete teacher-training for the Professional Basic 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 1964 are expected to complete the second and third summers in 1965 and 1966.

1. Home Economics graduates enrolling for the first summer session are required to take the following courses:

(1) Education 404—Curriculum and Instruction (Home Economics) 3 units
(2) Education 410—The Organization and Administration of B.C. Schools ..... 1½ units
(3) Education 435—Introduction to Evaluation ..... 1½ 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:

(1) Education 301—Educational Psychology ..... 3 units
(if not completed previously) and

(2) One of the following—
Education 332—Psychology of Adolescence ..... 3 units
Education 411—Guidance and Counselling Services ..... 3 units
Education 461—Diagnostic and Remedial Teaching ..... 3 units
Education 470—Educational Sociology ..... 3 units

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:

(1) Education 301—Educational Psychology ..... 3 units
(if not completed previously) and

(2) One of the following—
Education 332, 411, 461, 470 ..... 3 units

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

TEACHERS WITH ELEMENTARY BASIC CERTIFICATES TRAINING TO TEACH HOME ECONOMICS

Summer session courses available in 1964 for prospective teachers in Home Economics holding Elementary Basic certificates are:

Home Economics 102-104 ..... 3 units
Home Economics 201-310 ..... 3 units
Home Economics 421 ..... 3 units
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 E.B. certificates who wish to train to teach Home Economics should start on a Major in Home Economics—Bachelor of Education (Secondary Field) programme—by enrolling in six units of Home Economics courses listed above.**
2. **Teachers with E.B. certificates who have already taken some of the Home Economics courses listed towards their Major 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 E.B. teachers starting on a three-year summer session programme may plan their selection of courses, the courses offerings for 1965 are as follows:

H.E. 101-403, 105 and/or 300
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.**

Those holding an E.B. or higher certificate who propose to qualify in Physical Education should recognize that the full requirements for the Physical Education major may be completed before other required courses of the Third or higher years in the Faculty of Education. In view of the current need for qualified teachers of Physical Education, *teachers are encouraged* to plan **their programme to complete the Physical Education major requirements as early as possible. One may readily undertake 12 units or more of the P.E. major requirements in qualifying for the E.A. or higher certification. (Note that English 200 is required for E.A. certification under current Departmental regulations.)**

Those commencing training for the Elementary B certificate who wish to qualify in Physical Education may complete ten of the sixteen units required for a Physical Education major by undertaking 4 units during the first two years of teacher-training, plus 6 units of Summer Session work, and may complete the full 16 units needed for the Physical Education major with a further Summer Session. Persons already holding an Elementary C certificate may find it possible to include one or more 3-unit courses in Physical Education towards the Elementary B certificate and then continue with further training as outlined in paragraph two above.

A student contemplating rearrangement of the courses in his programme as suggested above should seek advice, if necessary, from the Director of the programme concerned.

Courses of Study

ANTHROPOLOGY

200. 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 and the nature of race.

Ten hours lectures a week—3 units.

Mr. Whisson.

400. Readings in Anthropological Theory.

A study of the principles used in the analysis of culture, with special reference to the history of anthropological thought and the points of view represented in the classical monographs.

This course will be held jointly with Sociology 405.

Ten hours lectures a week—3 units.

Mr. Cohen.

ASIAN STUDIES

310. Far Eastern International Politics (accepted for credit in International Studies).

A survey of the international relations of East and Southeast Asia in the 19th and 20th centuries.

Textbooks: Vinacke, *A History of the Far East in Modern Times* (Appleton Century Crofts, N.Y., 1964 ed. if possible) *or* Clyde, *The Far East,* (Prentice Hall, N.Y., 1964 ed. if possible).

Ten hours lectures a week—3 units.

Mr. Van der Kroef.

320. History of China (accepted for credit in History).

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

Pre-reading recommended: L. C. Goodrich, *A Short History of the Chinese People,* (Harper and Bros., N.Y., 1963-paperback).

Textbooks: Latourette, *The Chinese, Their History and Culture,* (Macmillan, N.Y.); FitzGerald, *China: A Short Cultural History,* (Cresset, London; Praeger, N.Y.).

Ten hours lectures a week—3 units.

Mr. FitzGerald.

410. The History of India, 1526-1947.

The major political, economic, and social developments in the Indian subcontinent from the Mughal period to the end of British rule, with preliminary treatment of the ancient and medieval periods.

Pre-reading required: Spear, *India: A Modern History,* Chapters I-IX.

Textbooks: Spear, *India: A Modern History,* (Univ. of Mich. Press, 1961); Davies, *An Historical Atlas of the Indian Peninsula,* (Oxford 1961).

Ten hours lectures a week—3 units.

Mr. Harnetty.

BACTERIOLOGY

200. Introductory Bacteriology.

History of bacteriology; bacteria in nature; classification of bacterial forms; methods of culture and isolation; relation of bacteria to agriculture, industry, veterinary science, public health and sanitation.

Prerequisite: Chemistry 101 or 102, and Zoology 105, which may be waived this year in certain instances after consultation with the Instructor.

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

Textbooks: Pelczar and Read, *Microbiology*, (McGraw-Hill, 1st Edition); Frobisher, *Fundamentals of Microbiology*, (Saunders Co., Seventh Edition).

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

Mr. Juhasz.

BIOLOGY

105. Principles of Biology.

The evolutionary development of biological systems and the adaptation of living things to their environment emphasizing the unity and diversity of living things.

Credit will not be given both for this course and Biology 100 (Grade 13). *Eight hours lectures and twelve hours laboratory a week*—3 units.

320. Principles of General Ecology.

Bioecology: the study of organisms and their environment and interactions among organisms.

Prerequisites: Botany 105 and Zoology 105. (Special permission of the instructor may allow Biology 105 as a prerequisite.)

Textbooks: Oosting, *The Study of Plant Communities*, (W. H. Freeman & Co., San Fran., 2nd ed.); E. P. Odum, *Fundamentals of Ecology*, (W. B. Saunders Co., 2nd ed.).

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

Mr. Schofield.

BOTANY

105. Introduction to Botany.

General perspective of the plant kingdom, physiological anatomy, ecological relations, and developmental trends.

Textbook: Hill, Overholts, Popp and Grove, *Botany*, (McGraw-Hill, Third Edition).

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

331. Fundamentals of Plant Physiology.

Dormancy, growth and development, physiology of reproduction, soil-root relations, mineral nutrition, translocation and loss of water, photosynthesis, biosyntheses, respiration, plant hormones.

Prerequisite: Botany 105.

Textbook: Meyer, Anderson & Bohning, *Introduction to Plant Physiology*, 1st ed. (1960), Van Nostrand Co. Ltd.

Six hours lectures and six hours laboratory a week.

Mr. Ormrod.

CHEMISTRY

101. General Chemistry.

Fundamental theories, periodic table, descriptive inorganic chemistry, chemical calculations, modern valency concepts, elementary nuclear chemistry.

Prerequisites: Mathematics 101 or 110 or 120 must precede or be taken concurrently; Chemistry 91.

Text-books: Sienko and Plane, *Chemistry*, (McGraw-Hill, Second Edition); Pierce and Smith, *General Chemistry Workbook*, (Freeman, Second Edition); Harrison, *A Laboratory Course in Chemistry*, (McGraw-Hill).

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

Mr. Reynolds.

205. Physical-Inorganic and Analytical Chemistry.

Systematic inorganic chemistry, properties of matter from a molecular standpoint, equilibria in solution, physical chemistry useful in biological, medical, agricultural, and related sciences.

Prerequisites: Chemistry 101 or 102, and Mathematics 101 or 110 or 120.

Textbooks: To be announced; *Mimeographed Lab. Manual* (University Bookstore).

Credit will not be given for both Chemistry 200 and 205.

***Eight hours lectures and fifteen hours laboratory a week*—3 units.**

Mr. Griffith.

300. Organic Chemistry.

Fundamental principles as illustrated by the main classes of organic compounds in the aliphatic and aromatic series.

Prerequisite: Chemistry 200 or 205.

Text-books: Morrison and Boyd, *Organic Chemistry*, (Allyn and Bacon); *Mimeographed Lab Manual*, Bookstore.

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

Mr. Unrau.

Note: Chemistry 304 will be offered in 1965 and Chemistry 310 in 1967.

430. Modern Concepts in Chemistry.

A review of modern concepts in general chemistry intended to provide background material for the new courses in chemistry which, it is expected, will be introduced in British Columbia in 1965 to replace the existing Chemistry 91. The lecture and laboratory programs will be based on the text materials prepared for the *Chem Study* course developed by the U.S. National Science Foundation.

Limited enrolment.

Pre-reading required: George C. Pimental, Ed., *Chemistry, An Experimental Science;* A. L. McLellan, Editor, Teachers' Guide for *Chemistry, An Experimental Science;* Lloyd E. Malm, Ed., Laboratory Manual for *Chemistry, An Experimental Science.* (All three textbooks available from W. H. Freeman and Co., Publishers, San Francisco, California.)

Fifteen hours lectures and discussion, fifteen hours laboratory a week—3 units.

It will not be possible to take another course during the session.

CLASSICAL STUDIES

331. Ancient History.

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: *Thucydides; Herodotus; Tacitus;* Plutarch, *The Rise and Fall of Athens* and *Fall of the Roman Republic; Livy;* Kitto, *The Greeks* (Penguin).

Textbook: J. Swain, *The Ancient World,* Volumes I and II (Harper).

***Ten hours lectures a week*—3 units.**

Mr. Cole.

333. The Roman Empire.

This course is a detailed study of Roman imperial history from 30 B.C. to the end of the fourth century. It includes 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.

Textbook: J. W. Swain, *The Ancient World,* Volumes I and II (Harper, First Edition, 1950).

Ten hours lectures a week—3 units.

Mr. Guthrie.

COMMERCE

NOTE: ***Courses in Commerce may not be taken for credit toward the B.A. or B.Sc. degrees except Commerce*** **151** ***and*** **371.**

90. Typewriting Techniques, Practice and Methods.

Basic operating skills, techniques of classroom instruction and management of typewriting classes in secondary schools.

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

Limited to 35 students.

Textbook: Lessenberry and Crawford, *20th Century Typewriting,* (Southwestern, W. J. Gage, Limited, Sixth Edition); Rowe, Lloyd, Winger, *Book One, General Typing, Gregg Typing (191 Series),* (Gregg Div. McGraw-Hill #54123—Teachers' Edition).

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

Miss Brown.

101. Shorthand Techniques, Practice and Methods.

Theory of Pitman shorthand. Development of skill to a minimum standard of 75 words per minute. Methods of instruction for secondary schools.

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

Pre-reading required: First 25 lessons of basic course.

Textbooks: *New Basic Course in Pitman Shorthand; Progressive Skill Development; Shorthand Dictation and Transcription,* (Sir Isaac Pitman and Sons (Canada) Ltd., Toronto).

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

Mr. Goldie.

151. Fundamentals of Accounting.

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 are strongly advised not to attempt any additional course.

Prerequisite: at least Second Year standing.

Ten hours lectures a week—3 units.

261. Marketing, Physical Distribution and Foreign Trade.

A study of the basic considerations affecting the domestic and international marketing of goods and services.

Ten hours lectures a week—3 units.

331. Commercial Law.

Introduction to the law of contracts, with particular reference to contracts for the sale of goods (Sale of Goods Act) and related law of personal property; negotiable instruments (Bills of Exchange Act); elementary principles of agency; partnership (Partnership Act) and company law (B.C. Companies Act); examination of selected legal and commercial documents.

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

Case book: Carrothers, *U.B.C. Cases and Materials on Commercial Law.* References: Anger, *Canadian Commercial Law;* Anson, *Contracts;* Sutton & Shannon, *Contracts.*

Ten hours lectures a week—3 units.

Mr. Loffmark.

371. Business Finance.

Problems of financing business concerns, including promotion, types of organizations, provision of long-term and short-term capital, dividend policy, expansion and combination, involvements, public policy toward corporations.

Prerequisites: Commerce 151, Economics 200.

Ten hours lectures a week—3 units.

376. Personal and Business Finance.

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).

Textbook: Cohen and Hanson, *Personal Finance: Principles and Case Problems,* (Irwin, Revised Edition).

Ten hours lectures a week—3 units.

Mr. Gourlay.

CREATIVE WRITING

202. Introduction to Creative Writing.

The informal essay, the short story, and the play. The emphasis will be on dramatic forms.

Limited to 15 students.

Prerequisite: English 100 and prior submission of acceptable piece of imaginative writing, written wholly by the applicant. (Material should be addressed to Professor Earle Birney, Chairman,Creative Writing Department, Buchanan 171, U.B.C.)

Textbook: Barnet, Sylvan and Berman, Morton and Burto, *An Introduction to Literature,* (Little Brown, Boston and Toronto, 2nd ed. 1963).

Ten hours lectures a week—3 units.

Mr. Hill.

ECONOMICS

200. 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.

Prerequisite: First Year standing.

Textbooks: Samuelson, *Economics;* Deutsch, Kierstead, *The Canadian Economy: Selected Readings,* (Levitt & Will).

Ten hours lectures a week—3 units.

300. Intermediate Economic Analysis.

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

Ten hours lectures a week—3 units.

320. Development in Modern Europe.

Economic growth and development in Europe mainly since 1750. Empirical study of the origins of important changes in social and economic institutions; examinations of their significance for structural change and the process of industrialization; analysis of growth, change and fluctuation in the major western economies until recent times.

Ten hours lectures a week—3 units.

Mr. Mingay.

EDUCATION

Notes: Courses in Education may not be taken for credit toward the B.A. or B.Sc. degrees. For information concerning the requirements of the majors and prerequisites for graduate work see the Graduate Studies calendar.

The B.Ed. degree for graduates has been discontinued. The degree will not be conferred after 1965. Students on the programme must complete their work by the end of the Summer Session 1965; students will no longer be admitted to the programme.

305. Art Education.

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, grades 1-12.

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

Prerequisite: Ed 205 or equivalent.

Pre-reading recommended: Gaitskell, *Children and Their Art,* (Harcourt Brace); Lowenfeld, *Creative and Mental Growth,* (Macmillan); Pearson, *The New Art Education,* (Harper and Brothers).

Textbook: Gaitskell, *Methods for Elementary School,* (Harcourt Brace, latest edition).

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

Miss Ballarian.

307. Music Education.

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.

Pre-reading recommended: Ellison, *Music for Children;* Nye and Nye, *Music in the Elementary School.*

Textbook: Nye & Nye, *Music in the Elementary School,* (Prentice-Hall).

***Ten hours lectures a week*—3 units.**

Mr. Davis.

308. Physical Education.

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

Prerequisite: Education 209.

Ten hours lectures a week—3 units.

Mr. Watt.

309. General Science for Elementary and Junior High School Teachers.

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 four sections.

Prerequisite: Education 201 or equivalent.

Textbooks: Wistar, *Man and His Physical Universe,* (Wiley); *B.C. Provincial Museum Handbooks on Mammals, Reptiles, and Amphibians of B.C.;* Taylor, *Garden Flowers.*

Reference books: Peterson, *Field Guide to Western Birds,* (Row-Peterson); Mavor, *General Biology,* (Macmillan); Bonner, *Heredity,* (Prentice Hall, 1961).

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

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

Mr. Boldt, Mr. Boughton, Mr. Gornall, Mr. Young.

331. Psychology of Childhood.

Mental, social, emotional and physical characteristics of pre-school and elementary school pupils; their interests and problems; implications for organization and administration of school systems. Opportunities for observation of children in the Child Study Centre will be arranged.

Ten hours lectures a week—3 units.

Mrs. Bredin, Miss Goodman, Mrs. Gallwey, Mr. Milton.

332. Psychology of Adolescence.

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

Textbook: Staton, *Dynamics of Adolescent Adjustment,* (Macmillan).

Ten hours lectures a week—3 units.

Mr. Walters, Mr. Lang, Mr. Dale, Mr. Whitinger.

333. Special Problems in Pre-School Education.

For students interested in pre-school and nursery education. Educational and emotional needs of young children are used as a basis for a discussion of the planning and organization of nursery school, kindergarten classrooms and playgrounds.

The course will emphasize kindergarten methods and provide observation opportunities. Students may not, therefore, enroll in a second course at the 8:15 - 12:20 lecture period.

Pre-reading recommended: *The Nursery School* (Read Saunders, Third Edition).

Textbook: Heffernan and Todd, *The Kindergarten Teacher,* (D. C. Heath and Co., 1960 Edition).

Ten hours lectures a week—3 units.

Miss Gardner.

336. Modern Theories of Pre-School Education.

A theory course intended for teachers and administrators interested in pre-school and primary education. Observation of pre-school procedures in the Child Study Centre.

Ten hours lectures a week—3 units.

Miss Hooper.

390. Librarianship: Sources of Information.

A basic course in the use of books and libraries, emphasizing the resources and methods for locating educational information and to techniques of teaching the use of school libraries.

Ten hours lectures a week—3 units.

Miss Mustard.

400. Survey of Educational Thought.

This is an introductory course in which consideration is given to both the historical and philosophical foundations of education and to the practical bearings of theory upon curriculum content and classroom practice in our schools. Reading assignments, topical reports and term papers form an important part of the course.

Ten hours lectures a week—3 units.

Mr. Barton, Mr. Neff, Mr. Elliott, Mr. Daniels.

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 course of the major. A second course of the major must be undertaken concurrently.

Commerce.

Limited to students who have completed a reasonable proportion of requirements for Commerce major or majors. Students with single major may take the course for 1½ units of credit, but must be prepared to attend two hours a day when required.

Textbook: Tonne, Popham, Freeman, *Methods of Teaching Business Subjects,* (Gregg Division, McGraw-Hill, Second Edition).

Ten hours lectures a week—3 units.

Mrs. Cameron.

English.

Prerequisite: Three senior courses in English.

Pre-reading: Familiarity with B.C. Programme of Studies for English in secondary grades.

Ten hours lectures a week, July 2-23 inclusive—1½ units.

Textbook: Bernstein Abraham, *Teaching English in High School,* (Random House, 1962).

Miss Cottingham.

Geography and Social Studies.

Prerequisite: Geography major or instructor's written consent.

Pre-reading recommended: Wooldridge and East, *The Spirit and Purpose of Geography,* (Hutchinson's University Library Series); Bruner, *The Process of Education,* (Harvard University Press, 1960).

Ten hours lectures a week, July 2-23 inclusive—1½ units.

Mr. Gunn

Guidance.

Textbook: Margaret E. Bennett, *Guidance and Counselling in Groups,* (McGraw-Hill, 1963).

Pre-reading: Robert Havighurst, *Development Tasks and Education,* (Longman Green, 2nd ed., 1948); Curriculum Guides, Grades 8-12.

Ten hours lectures a week, July 2-23 inclusive—1½ units.

Mrs. Thompson.

History and Social Studies.

Prerequisite: History major or instructor's written consent.

Pre-reading: B.C. Programme of Studies for Social Studies in secondary grades.

Textbooks: Burston, W. H. and Green, C. W., *Handbook for History Teachers,* (Methuen and Co. Ltd., 1962); Hunt, H. C., et. al., *High School Social Studies Perspectives,* (Houghton-Mifflin Co., 1962).

Ten hours lectures a week, July 24-August 12 inclusive—1½ units.

Miss Cottingham.

Home Economics.

Curriculum and Instruction.

Limited to 30 students.

Section 1—15 Bachelor of Education students with at least six units of Home Economics complete who have some teaching experience.

Section 2—15 Home Economics graduates.

***Six hours lectures and twelve hours laboratory a week*—3 units.**

Miss Callsen.

Mathematics.

Pre-reading recommended: the textbook.

Textbook: Davis, *The Teaching of Mathematics,* (Addison-Wesley Publishing Co.).

Ten hours lectures a week, July 24-August 12 inclusive—1½ units.

Mr. Ciriani.

405. Curriculum and Instruction in the Kindergarten and Primary Grades —Advanced.

Current research findings; trends and problems dealing with personality development, classroom management, the language arts, arithmetic, science, social studies, music and art, in the kindergarten and primary grades.

Prerequisite: Education 203 or equivalent.

Textbook: Lambert, *Early Childhood Education,* (Allyn and Bacon).

***Ten hours lectures a week*—3 units.**

Mrs. Vey, Mrs. McKenzie.

407. Introduction to the Study of Exceptional Children.

A course covering all groups of exceptional children in diagnosis, classification, treatment.

Ten hours lectures a week—3 units.

Mr. McGann, Mr. Buck.

408. Teaching the Mentally Superior.

The characteristics, needs and abilities of mentally superior and specially talented children; identification, classification, educational research; planning suitable educational programmes at both elementary and secondary levels; methods of teaching.

Textbook: DeHaan, and Havighurst, *Educating Gifted Children,* (Univ. of Chic. Press, 1961 Ed.).

Ten hours lectures a week—3 units.

Mr. Tillemans.

411. Guidance and Counselling Services in Schools.

A survey of principles, purposes and practices of Guidance. A study of the various services and materials available to teachers in British Columbia. Not available to students who have taken Education 403.

Limited to senior students.

Pre-reading: Wrenn, *The Counsellor in a Changing World.*

Textbook: Froehlich, *Guidance Services in Schools.*

Ten hours lectures a week—3 units.

Mr. Oldridge, Mr. Seiverd, Miss Williamson.

412. Introduction to Adult Education.

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., Editor, *Learning and Society.*

Textbook: Verner and Booth, *Adult Education,* (Prentice Hall, Library of Education series).

Ten hours lectures a week—3 units.

Mr. Kidd.

414. Audio-Visual Education.

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.

Textbook: Dale, *Audio Visual Aids to Teaching,* Rev. ed.

Ten hours lectures a week—3 units.

Mr. Pollock.

415. Developmental Reading.

The problems of teaching reading, grades 1-12; the nature and psychology of reading; the basic skills and abilities; evaluating reading, remedial reading.

Pre-reading recommended: ed. by Causey, *The Reading Teacher's Reader,* (The Ronald Press).

Pre-reading required: Chapters 1 to 4 of the text.

Textbook: Russell, *Children Learn to Read,* (Ginn, Fourth Edition).

Prerequisite to Education 508, *Research in Reading,* and Education 574, *Supervision of Reading.*

Ten hours lectures a week—3 units.

Mr. Westermark, Mr. Greig, Miss Collins.

416. Speech Education.

Speaking and thinking creatively; self-evaluation; physiology of voice production; preventing voice fatigue; guided practice.

Ten hours lectures a week—3 units.

Mrs. Campbell.

417. Teaching Dull and Backward Children.

This course is concerned with the teaching of slow-learning children both in the ordinary grades and in special classes for the 'educable' mentally retarded. It covers educational aims and objectives of special class education, modern educational procedures, organization of programmes, teaching of the basic subjects.

Prerequisite: Education 407 recommended, not mandatory.

Ten hours lectures a week—3 units.

Mr. Peter.

419. Introduction to Speech Correction.

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.

Textbook: Johnson, Wendell, Brown, Curtis, Edney and Keaster, *Speech Handicapped School Children,* (Harper, Revised Edition, 1956).

Ten hours lectures a week—3 units.

Miss Washington.

423. Problems of the Deaf and Hard-of-Hearing.

An introductory course dealing with the causes of deafness, types of hearing loss, and management of children with a hearing loss. Clinical observation.

Prerequisite: Education 407.

Ten hours lectures a week—3 units.

Mr. Boyd.

428. Mental Health in the School.

Appraisal of current concepts of mental health. Mental health hazards; prevention and treatment. Roles of the teacher and other school personnel.

Prerequisite: Education 102 or 301 or equivalent course.

Ten hours lectures a week—3 units.

Mr. MacKenzie.

430. History of Education.

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

Pre-reading recommended: Curtis and Boultwood, *A Short History of Educational Ideas,* (University Tutorial Press, Second Edition); Good, *A History of Western Education,* (MacMillan, Second Edition); Rusk, *The Doctrines of the Great Educators,* (MacMillan, Revised Edition); Ulich, *History of Educational Thought,* (American Book Co., 1945).

Ten hours lectures a week—3 units.

Mr. Mason.

460. An Introduction to School Administration.

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

Textbook: Campbell, *Introduction to Educational Administration,* (Allyn and Bacon, Second Edition).

Pre-reading required: Whyte, *The Organization Man,* Packard, *The Status Seekers.*

Pre-reading recommended: Riesman, *The Lonely Crowd.*

Ten hours lectures a week—3 units.

Mr. Seager, Mr. Knill.

461. Diagnostic and Remedial Teaching.

Interpretation of informal and standardized test scores in educational diagnosis; estimates of actual and optimum levels of individual achievement; individual differences as factors affecting performance; methods of encouraging the optimum achievement of individuals; methods and practice materials for the remedial teaching of reading, mathematics, spelling and English in the elementary and secondary school.

Ten hours lectures a week—3 units.

Mr. Ellis, Mr. Hammond, Mrs. Bowers.

462. Remedial Reading.

Identification of retarded readers; the diagnosis and treatment of disabilities in reading; selection of materials; organization of the special remedial reading classroom; practice in diagnosis and remediation.

Limited to 20 students.

Prerequisites: Education 415 or equivalent, and teaching experience.

Students taking this course may not undertake another course given during the morning.

Textbook: Kottmeyer, *Handbook to Remedial Reading.*

Lectures and laboratories, mornings throughout the session—3 units.

Mrs. Rizer.

470. Educational Sociology.

Significant aspects of social structure in modern western civilization and their relation to education. The social environment of the school child. The school as a social system. The school in relation to the community. The nature of social change. Problems of administration and control. The teacher and his social role.

Ten hours lectures a week—3 units.

Mr. Blyth, Mr. Smith.

490. The Library in The School.

The objectives, functions and administration of libraries in elementary and secondary schools; basic instruction in planning and equipping the school library, in performing various technical operations, and in making the library an educational force in the school.

Textbooks: No textbook but students are asked to bring to class their copy of *Library Manual for the Public Schools of British Columbia.* Published by the Department of Education, Division of Curriculum, Victoria, 1955.

Ten hours lectures a week—3 units.

Miss Egoff.

491. The Acquisition and Organization of Library Materials.

The principles and methods of building and organizing school library collections. The course aims to develop the ability to select and acquire a wide variety of library materials and to classify and catalogue them in accordance with the needs of the school programme.

Textbook: Students are asked to bring to class a copy of *Library Manual for the Public Schools of British Columbia.*

Ten hours lectures a week—3 units.

Mr. Lanning, Miss Rice.

521. Advanced Seminar in Philosophy of Education.

Current trends in educational philosophy; social implications of current educational theories.

Prerequisite: Education 400.

Ten hours lectures a week—3 units.

Mr. Hirst.

523. Comparative Education.

The comparative study of the history, organization, and administration of the educational systems of selected foreign countries.

Prerequisites: Education 400, 404 or 410.

Textbooks: J. F. Cramer and G. S. Browne, *Contemporary Education,* (Harcourt, Brace & Co., N.Y., 1963 ed.).

Ten hours lectures a week—3 units.

Mr. Katz.

530. Psychology of Learning.

The study of intraserial phenomena, maturation, effect, frequency, transfer, retention, practice and material effects in learning. Theories of learning, and results of research in learning. The relationship of theories to methodology and curricular practices. The course will emphasize the relationship between experimental learning psychology and educational psychology and the research in programmed learning particularly.

Prerequisite: Education 102 or 301.

Ten hours lectures a week—3 units.

Mr. Bowers.

535. Evaluation.

Basic principles; tests and other instruments for measuring instruction.

Prerequisite: Education 301 or 435.

Ten hours lectures a week—3 units.

Mr. Hopkins.

556. Administration of School Systems.

A study of school district administrative organization and procedures. Unit versus multiple executive organization, problems of the larger administrative unit, practical problems of the superintendency.

Prerequisite: Education 557 or 558 or permission of instructor.

Five hours lectures a week—1½ units.

Mr. Halpin.

557. Administration and Supervision of the Elementary School.

The work of the principal, supervisors and superintendents in the improvement of instruction and administration.

Pre-reading recommended: Mickelson and Hansen, *Elementary School Administration*, (McGraw-Hill, 1957).

Ten hours lectures a week—3 units.

Mr. Dunworth.

558. Administration and Supervision of the Secondary School.

The work of the principal, supervisors and superintendents in the improvement of instruction and administration.

Pre-reading recommended: Conant, *Slums and Suburbs*, (Toronto: McGraw-Hill Book Co. Inc., 1961). Conant, *The American High School To-day*, (Toronto: McGraw-Hill Book Co. Inc., 1957). National Union of Teachers, *Inside the Comprehensive School*, (London: The Schoolmaster Publishing Co. Ltd., 1958).

Ten hours lectures a week—3 units.

Mr. Siemens.

559. School Finance.

Methods of educational finance in selected provinces and states. Recent trends with special emphasis on B.C. fiscal policy, foundation and equalization programmes, Federal Aid, etc. Sound budgetary practice, accounts, and the financing of capital expenditures. Related problems in educational finance.

Prerequisite: Education 557 or Education 558 or consent of instructor.

Ten hours lectures a week—3 units.

Mr. Rideout.

560. Theories and Principles of Educational Administration.

Dimensions of modern school administrative functions, responsibilities and duties at level of province, state and district or municipal superintendency. General principles of organization and operation at level of both provincial and local superintendency. Problems of personnel and public relations. An advanced course stressing theory and including wide readings from the field of both general and educational administration.

Prerequisites: Education 557 or 558 or consent of instructor.

Five hours lectures a week—1½ units.

Mr. Halpin.

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.

Chemistry.

See Chemistry 430. Students wishing graduate credit in education for this course must obtain permission of Director of Graduate Division of Education.

Mathematics.

Ten hours lectures a week—3 units.

Mr. Hartung.

Physics.

See Physics 430. Students wishing graduate credit in education for this course must obtain permission of Director of Graduate Division of Education.

568. Special Education of the Orthopaedically and Neurologically Handicapped.

Neurological foundations of learning followed by special considerations of the learning problems of the neurologically impaired with particular emphasis on current and recent research.

Prerequisite: Education 407.

Pre-reading recommended: Any text on Neuro-Anatomy.

Textbooks: Strauss & Lehtenin, *The Brain-Injured Child,* Vol. I, (Grune & Stratton); Cruickshank et. al., *Training the Brain-Injured and Hyperactive Child,* (Syracuse Univ. Press).

Ten hours lectures per week—3 units.

Miss David.

574. Supervision of Reading.

Curriculum analysis and planning. Implications for the administrator, the consultant and supervisor of reading.

Prerequisite: Education 415.

Pre-reading required: Review of a basic text on Developmental Reading, such as Russell, *Children Learn to Read.*

Textbooks: Newton, *Reading in Your School,* (McGraw-Hill); Strang and Lindquist, *The Administrator and the Improvement of Reading,* (Appleton-Century Crofts).

Limited to twelve students.

Ten hours lectures a week—3 units.

Mr. Covell.

578. Advanced Seminar in Theories of Guidance and Counselling.

Theory, research, techniques and ethical practices in counselling.

Prerequisite: Education 411. Students are also advised to take Education 332 and 535.

Pre-reading: Conant, *Slums and Suburbs,* (McGraw-Hill, 1961). Wrenn, *The Counselor in a Changing World,* APGA 1962. Friedenberg, *The Vanishing Adolescent;* Maslow, *Toward a Psychology of Being,* (Van Nostrand, 1962).

Textbooks: Leona Tyler, *The Work of the Counselor,* (Appleton, Century, Crofts), 1961 (2nd ed.); McGowan and Schmidt, *Counseling: Readings in Theory and Practice,* (Holt, Rinehart, & Winston, 1962).

Ten hours lectures a week—3 units.

Miss Nevison.

581. Methods of Educational Research.

Scientific method in education; discovering problems; types of research; standards in thesis writing; critical study of published research.

Open to Master's degree candidates only.

Textbook: Mouly, *The Science of Educational Research,* (American Book Co.).

Pre-reading: Review of elementary statistics (Education 482 or equivalent).

Five hours lectures a week—1½ units.

Mr. Stein.

582. Statistics in Educational Research I.

Inferential statistics including sampling theory and the testing of hypotheses as applied to educational research.

Prerequisite: Education 482 or consent of instructor.

Open to Master's degree candidates only.

Textbook: Garrett, *Statistics in Psychology and Education,* (Longmans, Fifth Edition).

Pre-reading: Review of elementary statistics, (Education 482 or equivalent).

Five hours lectures a week—1½ units.

Mr. Stein.

INDUSTRIAL ARTS

352. Mechanical Drawing.

Advanced geometrical principles of parallel line, radial line, triangulation and approximate developments as applied to sheet metalwork; architectural drawing, simple building problems, floor plans, elevations and details of small frame house construction, N.H.A. specifications; machine and furniture making draughting.

Limited to 4 students.

Textbook: Giesecke, Mitchell & Spencer, *Technical Drawing,* (Macmillan, 4th ed.).

Twenty hours laboratory a week—3 units.

One section only, 8:00 a.m. to 12:00 noon.

Senior Drafting Room, Vancouver Technical School.

Mr. Story.

353. Design in Industrial Arts.

Functional, structural and aesthetic aspects of design applied to Industrial Arts projects.

Limited enrollment.

Prerequisite: Education 150.

Twenty hours laboratory a week—3 units.

Section 1: 8:00 a.m. - 12 noon

Junior Shops, Vancouver Technical School.

Section 2: 1:00 p.m. - 5 p.m.

Junior Shops, Vancouver Technical School.

354. Oxy-Acetylene and Arc Welding.

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

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

Prerequisite: Education 150.

Text-books: *New Lessons in Arc Welding,* (Lincoln Electric Co., latest edition); *The Oxy-Acetylene Handbook,* (Linde Air Products Co., latest edition).

Twenty hours laboratory a week—3 units.

Mr. Held.

Section 1: Limited to 15 students.

8:00 a.m. - 12 noon

Welding Shop, Vancouver Technical School.

Section 2: Limited to 15 students.

1:00 p.m. - 5:00 p.m.

Welding Shop, Vancouver Technical School.

450. Technology of Woodworking II

Modern methods and design in cabinetmaking; veneering; wood finishing; care and maintenance of woodworking machinery.

Limited enrollment.

Prerequisites: Education 150, Education 350.

Twenty hours laboratory a week—3 units.

Section 1: 8:00 a.m. - 12 noon, Mr. Kiewtz.

Senior Wood Shop, Vancouver Technical School.

Section 2: 1:00 p.m. - 5:00 p.m., Mr. Cockcroft.

Senior Wood Shop, Vancouver Technical School.

451. Technology of Metalwork II.

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 enrollment.

Prerequisites: Education 150, Education 351.

Twenty hours laboratory a week—3 units.

Mr. Johnstone.

One section only, 1:00 p.m. - 5:00 p.m.

General Metals Shop, Building No. 3, B.C. Vocational School.

452. Technology of Woodworking III

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

Limited to 20 students.

Prerequisites: Education 150, Education 350, Education 352.

Text-book: Burbank, *House Carpentry and Joinery,* (Simmons Boardman, latest edition).

Twenty hours laboratory a week—3 units.

Mr. Dalsvaag.

Section one only, 1:00 p.m. - 5:00 p.m.

Senior Wood Shop, Vancouver Technical School.

453. Auto Mechanics.

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 20 students.

Prerequisites: Education 150, Education 351.

Twenty hours laboratory a week—3 units.

Mr. Aldrich.

Section one only, 8:00 a.m. - 12:00 noon.

Auto Mechanics Shop, Vancouver Technical School.

454. Pattern making and non ferrous casting techniques.

Influence of foundry techniques and metallurgy on design. Application of various types of patterns to Industrial Arts projects. Making patterns and core boxes. Green sand moulding, core making, gating practice, melting and pouring of brass and aluminum alloys.

Limited to 20 students.

Prerequisite: Education 150.

Twenty hours laboratory a week—3 units.

Mr. Catherall.

Section one, 8:00 a.m. - 12:00 noon.

Foundry, Vancouver Technical School.

455. Principles of Design and Construcion of Small Boats.

Characteristics of displacement and planing hulls. Development of hull forms. Calculation of centres of gravity and buoyancy and metacentric height. Lofting techniques. Hard chine and round bilge construction.

Limited to 18 students.

Prerequisites: Education 150, Education 350, Education 450.

Twenty hours laboratory a week—3 units.

Mr. David.

Section one only, 1:00 p.m. - 5:00 p.m.

General Wood Shop, Building No. 3,

B.C. Vocational School.

ENGLISH

100. Literature and Composition.

A study of literature in the nineteenth and twentieth centuries, and of the principles of composition. Themes and exercises are required.

Textbooks: Chekhov, *Selected Stories*, (Signet Classic); Conrad, *Heart of Darkness and the Secret Sharer*, (Signet); Joyce, *Dubliners*, (Penguin); D. H. Lawrence, *The Lovely Lady*, (Signet); Faulkner, *Selected Stories*, (Modern Library); Oscar Williams, ed., *A Little Treasury of Modern Poetry*, (Revised); Duncan Robertson, *Errors in Composition*, (Macmillan of Canada); Strunk and White, *The Elements of Style*, (Brett-Macmillan); Brooks and Warren, *A Modern Rhetoric*, (Harcourt Brace).

Three plays and two novels will be selected by the instructor. A partial reading list is available from the Department of English, and students are advised to pre-read the stories and poems specified in it.

Ten hours lectures a week—3 units.

Mr. Cameron, Mr. Stott.

200. Literature and Composition.

A study of literature from Chaucer to the nineteenth century. Themes and exercises are required.

Textbooks: *Chaucer,* (Crofts Classics ed.); Shakespeare, *Hamlet,* (Pelican); *English Poems,* 1250-1669, (ed. Warhaft and Woodbury, Macmillan); *Restoration and Augustan Poets,* (ed. Auden and Pearson, Viking paperback); *Romantic and Victorian Poetry,* (Ed. W. Frost, Prentice-Hall paperback); Swift, *Gulliver's Travels,* (Rinehart); Fielding, *Joseph Andrews,* (Riverside); Austen, *Pride and Prejudice,* (Riverside); Dickens, *Hard Times,* (Rinehart).

Prerequisite: English 100.

NOTE: 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 School term and covering the works by Shakespeare, Swift, Fielding, Dickens and Austen. These works must be read in advance.

Ten hours lectures a week—3 units.

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

Mr. Connaughty, Mr. Labrie, Mr. Quartermain, Mr. Ripley, Mr. Yeomans.

300. English Composition.

A study of the principles and practice of good writing.

For credit only in the Faculty of Education.

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.

(Please indicate your priority on your registration booklet.)

Textbooks: Myers, *Guide to American English,* (Prentice-Hall); Warner, *A Short Guide to English Style,* (Oxford Paperback).

Ten hours lectures a week—3 units.

Mr. Surette, Miss Baxter, Mr. Maclean.

301. Children's Literature.

A critical and historical study of literature for children.

For credit only in the Faculty of Education.

Textbook: Meigs, Cornelia, Anne Thaxter Eaton, Elizabeth Nesbitt, Ruth Hill Viguers, *A Critical History of Children's Literature,* (New York, Macmillan Company, 1956).

Pre-reading recommended: Arbuthnot, May Hill, *Children and Books,* (latest ed.). Scott, Foresman, Eaton, Anne Thaxter, *Reading with Children,* (Rev. ed., Viking Press, 1959). Books accepted as "classics," in children's literature.

Ten hours lectures a week—3 units.

Miss Molder, Mrs. Hopwood, Mrs. Howard, Miss McDowell.

400. Advanced English Composition.

The course gives practice in writing the personal essay and the research paper. Stress is placed on the development of the student's own style. Competent use of the English language is prerequisite.

Required for students in Faculty of Education with major in English.

Limited to 15 students.

Textbook: Read, *English Prose Style,* (Beacon Press) (Reprint Paperback Edition).

Ten hours lectures a week—3 units.

Mr. Stone and others.

406. English Poetry.

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

Ten hours lectures a week—3 units.

Mr. Reaney.

413. Shakespeare.

Lectures on various aspects of Shakespeare's art.

Detailed study of *Romeo and Juliet, A Midsummer Night's Dream, The Merchant of Venice, Henry IV,* Part 1, *Othello, The Winter's Tale.*

Pre-reading: *Henry IV,* Part 2, *Henry V, Much Ado about Nothing, Antony and Cleopatra.*

Textbook: ed. by Harrison, *Shakespeare, The Complete Works,* (Harcourt Brace).

Ten hours lectures a week—3 units.

Mr. Wigod.

424. Seventeenth-Century Literature.

The century's prose and poetry, exclusive of Milton. Emphasis upon the ideas, forms and styles as an expression of the educational, religious, moral and political controversies of the age.

Pre-reading recommended: Willey, *Seventeenth Century Background;* Bunyan, *Pilgrim's Progress,* Part 1.

Textbooks: Coffin and Witherspoon, *Seventeenth Century Prose and Poetry,* (Harcourt Brace); Willey, *Seventeenth Century Background,* (Doubleday, Anchor Edition); Bunyan, *Pilgrim's Progress,* (Rinehart).

Ten hours lectures a week—3 units.

Mr. Gair.

427. The English Novel.

A study of the major novelists of the eighteenth and nineteenth centuries.

Textbooks: Defoe, *Moll Flanders,* 1722; Fielding, *Tom Jones,* 1749; Austen, *Emma,* 1816; Bronte, *Jane Eyre,* 1847; Radcliffe, *The Mysteries of Udolpho,* 1794; Emily Bronte, *Wuthering Heights,* 1847; Thackeray, *Vanity Fair,* 1847-48; Dickens, *Hard Times,* 1854; Eliot, *Adam Bede,* 1859; Hardy, *The Return of the Native,* 1878; Butler, *The Way of All Flesh,* 1903; Lawrence, *The Rainbow,* 1915; Woolf, *The Waves,* 1931.

Ten hours lectures a week—3 units.

Mr. Hulcoop.

428. American Literature to 1890.

A survey with emphasis given to Franklin, Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman, Clemens, Dickinson.

Textbooks: *The American Tradition in Literature,* Bradley, Beatty and Long, (Shuster Edition, Revised 1961); Whitman, *Leaves of Grass and Selected*

Prose, (Rinehart); Twain, *The Portable Twain,* (Viking); Cooper, *The Prairie,* (Rinehart); Melville, *Moby Dick,* (Riverside); *Pierre,* (Grove Press); Hawthorne, *The Scarlet Letter,* (Riverside); *The Blithedale Romance,* (Norton Library) Howells, *The Rise of Silas Lapham,* (Riverside); James, *Roderick Hudson,* (Harper Torchbook); Rod W. Horton and H. W. Edwards, *Backgrounds of American Literary Thought,* (Appleton-Century-Crofts).

Ten hours lectures a week—3 units.

Mr. Grenberg.

430. The Romantic Period.

Chiefly Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

Pre-reading from the textbook: (a) required "Introductory Survey" and the selections from Blake's *Songs of Innocence* and *Songs of Experience,* Wordsworth's Preface to the *Lyrical Ballads,* Coleridge's *Biographia Literaria,* Byron's *Childe Harold,* Shelley's *Prometheus Unbound,* Keat's *Endymion.*

Text-book: Russel Noyes, *English Romantic Poetry and Prose,* (Oxford University Press, 1956).

Ten hours lectures a week—3 units.

Mr. Stevenson.

431. Victorian Poetry.

Chiefly Tennyson, Browning, and Arnold. A few weeks devoted to later poetry.

Textbook: Houghton and Stange, *Victorian Poetry and Poetics.*

Ten hours lectures a week—3 units.

Mr. Fredeman.

434. Contemporary Literature.

Outstanding writers of the present generation; literary developments in the essay, poetry, and fiction.

Textbooks: Hardy, (Penguin); Yeats, *Selected Poetry,* (Macmillan of Canada); Eliot, *Selected Poems,* (Faber); *Four Quartets,* (Faber); Eliot, *Selected Essays;* Auden, (Penguin); Joyce, *Dubliners,* (Penguin); *Portrait of the Artist as a Young Man,* (Penguin); D. H. Lawrence, *Women in Love,* (Penguin); *Selected Essays,* (Penguin); Katherine Mansfield, *The Garden Party,* (Penguin); Forster, *A Passage to India,* (Arnold); Woolf, *Mrs. Dalloway,* (Everyman); Huxley, *Antic Hay; Brave New World,* (Bantam); Greene, *Brighton Rock,* (Penguin); *The Heart of the Matter; The New Poetry,* (ed. A. Alvarez, Penguin).

Pre-reading recommended: the novels by Joyce, Lawrence, and Forster.

Ten hours lectures a week—3 units.

Mr. Powell.

439. Modern English and Its Background.

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

Textbooks to be assigned.

Ten hours lectures a week—3 units.

Miss McConnell.

440. Chaucer.

Chaucer, his contemporaries and his followers, including a detailed study of Chaucer's major works.

Pre-reading recommended: Baugh, *A Literary History of England,* Book 1, Part 2.

Textbooks: ed. Robinson, *Chaucer's Complete Works,* (Houghton-Mifflin, rev-ed. 1957). ed. Auden and Pearson, *Poets of the English Language,* Vol. 1, (Viking Portable Library).

Ten hours lectures a week—3 units.

Mr. Pearsall.

539. 20th Century Studies (Modern Fiction).

Textbooks: Joyce, *Dubliners; A Portrait of the Artist as a Young Man; Ulysses;* Conrad, *The Secret Sharer; Heart of Darkness; Victory; Nostromo;* Forster, all of the novels; Hemingway, all of the stories; *Farewell to Arms; The Sun Also Rises;* Faulkner, *The Sound and the Fury; As I Lay Dying; Light in August; Absalom, Absalom; The Hamlet.*

Prerequisite: permission of the Department.

Ten hours lectures a week—3 units.

Mr. Sigworth.

FINE ARTS

NOTE: *The following courses are for credit only in the Faculty of Education, with the exception of Fine Arts 125, 128 and 432, which are for credit in the Faculty of Arts or Science. Students enrolling in Education Fine Arts courses above the "300" level must be prepared to submit art work to their instructor on the first day of lectures. The work submitted should show evidence of serious extra-curricular effort and will assist the instructor in guiding the student.*

101. History of the Fine Arts.

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.

Textbooks: (Art) Gombrich, *The Story of Art,* (Phaidon), and (Music) *Design for Listening.*

Ten hours lectures a week—3 units.

Mr. Ozard (Art), Mr. Rose (Music).

125. History of Art.

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

Textbook: H. W. Janson, *History of Art,* (Prentice-Hall Inc. and Harry N. Abrams Inc., New York, 1962).

Ten hours lectures a week—3 units.

Mr. McNairn.

128. Design Fundamentals.

An intensive and advanced study of creative art forms through experiments closely related to illustrated lectures and demonstrations; the basic visual elements of line, shape, volume, space, colour and texture using various materials.

30 students per section.

Text-books: Moholy-Nagy, *Vision in Motion,* (Theobald); Smith and Smith, *The Behaviour of Man,* (Holt).

Two hours lectures and eighteen hours laboratory a week—3 units.

Mr. Thomas.

300. Introduction to the Plastic and Graphic Arts.

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 University Book Store.

Textbook: Nicolaides, *The Natural Way to Draw*, (Houghton Mifflin, Latest Edition).

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

302. Drawing and Painting.

Designed to form the basis for any advanced work towards an art major. The fundamentals of both techniques will be explored using still life, figure and landscape. Students will be expected to submit a sketch book of work done outside of class as part of the final mark.

Prerequisites: Fine Arts 101 and Fine Arts 300.

For credit only in the Faculty of Education.

Limited to 15 students majoring in Art.

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

Mr. Healy.

303. Ceramics and Modelling I.

Introduction to ceramics and modelling with emphasis upon the preparation of clays, use of glazes and kiln firing techniques. Demonstration and introduction to wheel techniques.

Limited to 10 students.

Prerequisites: Fine Arts 300 and 302, or equivalent courses.

For credit only in the Faculty of Education.

Textbook: Saunders, *Sunset Ceramics.*

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

Mr. Clarke.

401. Painting I.

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.

Prerequisites: Fine Arts 300 and 302 or equivalent courses.

Limited to 15 students. For credit only in the Faculty of Education.

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

Mr. MacIntosh.

402. Painting II.

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.

Prerequisite: F.A. 401.

Limited to 15 students. For credit only in the Faculty of Education.

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

Mr. Black.

403. Ceramics and Modelling II.

Advanced Ceramics and Modelling with specialization in the use of the potter's wheel, molds and casting, firing techniques; investigation of local and imported clay; glazing research.

For credit only in the Faculty of Education.

Limited to 5 students.

Prerequisite: Fine Arts 303 or equivalent course.

Textbook: Saunders, *Sunset Ceramics.*

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

Mr. Clarke.

413. Ceramics and Modelling.

A special study in an advanced field of ceramics and modelling.

Prerequisites: Fine Arts 303 and 403 or equivalent courses.

Pre-reading required: Glenn Nelson, *Ceramics;* Bernard Leach, *A Potter's Book;* Wildenhain, *Pottery: Form and Expression.*

Textbook: Daniel Rhodes, *Stoneware and Porcelain, The Art of High Fired Pottery,* Ambassador Books, Toronto.

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

Ten hours lectures a week—3 units.

Mr. Clarke.

432. European Art from 1600 to 1750.

A comprehensive survey of the painting, sculpture and architecture of England, France, Holland, Flanders, Italy and Spain during the 17th and early 18th centuries, including detailed study of the work of the major artists of the period.

Pre-reading required: Ashley, *England in the 17th Century* (Pelican paperback); Wedgewood, *The Thirty Years War* (Pelican paperback); Ashley, *Louis XIV and the Greatness of France* (Teach Yourself History Library).

Pre-reading recommended: G. N. Clark, *The 17th Century* (Oxford paperback).

Textbook: Holt, *A Documentary History of Art, Vol. II,* (Doubleday, Anchor Books, 1958).

Ten hours lectures a week—3 units.

Mr. Rosenberg.

FRENCH

110. First Year University French.

Study of French texts; grammar, pronunciation.

Prerequisite: French 20.

Pre-reading: Grant, Sachs and Sachs, *French Stories, Plays, Poetry,* (New York, Oxford University Press).

Textbook: Mondelli, *French Conversational Review Grammar,* (American Book Company).

Ten hours lectures a week—3 units.

Miss Kaplan.

120. French Language and Literature, Part I.

Prerequisite: French 92.

Textbooks:

(1) *Reflex French* (Green, Faucher, Healy). Macmillan Co. of Canada. Toronto. 1960.

(2) *Voix du Siecle,* (Edition by Smith-Savacool, (Harcourt, Brace and World).

(3) Albert Camus, *L'Etranger,* (Edition by G. Bree and Carlos Lynes, Jr.). Appleton, Century, Crofts, New York, 1955).

(4) Jean Anouilh, *Antigone,* (Edition by D. Grossuogel) Integral Edition. Cambridge, Mass.

Ten hours lectures a week—3 units.

Mr. Bird.

210. Second Year University French.

Prerequisite: French 110.

Pre-reading: There will be a test before the end of the first week on the following required pre-reading: *Contes Modernes,* pp. 1-45; Mulhouse, Desberg, Saisselin, *Le Francais d'aujourd'hui: ecrit et oral,* pp. 145-186.

Textbooks: *Contes Modernes,* (Harper and Brothers, Revised Edition); Mulhouse, Desberg, Saisselin, *Le Francais d'aujourd'hui: ecrit et oral,* (Ginn & Co.).

Ten hours lectures a week—3 units.

Mr. Knutson, Mr. Simaika.

220. French Language and Literature, Part II.

Prerequisite: French 120 or First Class standing in French 110.

Pre-reading required: Moliere, *L'Avare.*

Textbooks: In Classiques Larousse editions: Moliere, *L'Avare;* Racine, *Andromaque;* Voltaire, *Contes* (2 vols.); Flaubert, *Trois Contes;* Ferrar, *A French Reference Grammar.*

Ten hours lectures a week—3 units.

Mr. Harden.

223. Training in Speech and Writing.

Composition, discussion, *dictées,* stylistics, advanced translation, literary genres, aspects of French poetry.

Prerequisite: Completion of French 210 or equivalent.

Textbook: Whitmarsh and Jukes, *Advanced French Course,* (Longmans).

Ten hours lectures a week—3 units.

Mr. Wood.

302. French Practice.

Composition; syntax; phonetics.

Prerequisite: 2nd class standing in French 220.

Textbook: W. Whitmarsh, *Cours Superieur,* (Longmans).

Ten hours lectures a week—3 units.

Mrs. Bird and Miss Richardson.

408. Literature of the 16th Century.

A study of the French Renaissance based on readings from Rabelais, Ronsard and Montaigne.

Prerequisite: 2nd Year French.

Textbooks: Chassignes Larousse editions of *Clement Marot; Rabelais* (2 vols.); *Ronsard,* (2 vols.); *Du Bellay; Montaigne,* (2 vols.).

Ten hours lectures per week—3 units.

Mr. MacKay.

Note: *Intensive course in spoken French (non-credit), see page 82.*

GEOGRAPHY

101. Introduction to Physical Geography.

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

Geography 101 may be credited as a science elective in the first or second year of the B.A. or the B.Ed. programmes.

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

Textbook: Strahler, *Physical Geography*, (Wiley, 1960 Edition).

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

Mr. Rheumer, section 1; Mr. Pye, section 2.

201. Economic and Human Geography.

Population, predominant economies, resources, manufacturing; processes of industrialization and urbanization.

Textbook: Alexander, *Economic Geography*. Atlas.

Geography 201 is required for the geography major.

Ten hours lectures a week—3 units.

Mr. Hardwick.

303. World Geography.

A survey of the physical, economic and human geography of the continents. Emphasis will be on the regional geography and regional character of certain parts of the world.

Enrollment limited to 150.

Textbook: Morris and Freeman, *World Geography*, 1964 ed.; Atlas: Prentice Hall or Goode's World Atlas.

Required for 3rd year Education and available as an elective in the faculties of Arts, Science or Education; not credited toward a geography major.

Ten hours lectures and four hours practical a week—3 units.

(Discussion groups meet throughout each day, and will be assigned at the first lecture.)

305. Urban Geography.

Geographic analysis of the urban region and urban functions; internal and external circulation; application of theories of spatial organization to urbanization; case studies. Historical development of the European and North American city.

Prerequisite: Geography 201 or 207.

Textbook: Mayer and Kohn, *Readings in Urban Geography*.

Ten hours lectures a week—3 units.

Mr. Fellmann.

406. Geography of East Asia.

The regional geography—physical, economic and cultural—of the countries of East Asia.

Enrollment is limited to the first 75 registrants.

Prerequisite: Geography 101 or 201.

Textbook: J. Spencer, *Asia—South by East*, Wiley.

Ten hours lectures a week—3 units.

Mr. Illick.

409. Geography of Canada and United States.

Regional geography—physical, economic and cultural—of western United States, eastern Canada with emphasis on Quebec, and western and northern Canada.

Enrollment is limited to the first 85 registrants.

Prerequisite: Geography 101 or 201.

Textbook: Paterson, *North America,* Oxford, 1963 ed.

Ten hours lectures a week—3 units.

Mr. Crowley, Mr. Robinson.

GEOLOGY

105. General Geology.

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.

Prerequisite: Chemistry 101 before or concurrently, or with special permission of instructor.

Textbooks: Edgar W. Spencer, *Basic Concepts of Physical Geology,* (Thomas Y. Crowell Company, First Edition); Edgar W. Spencer, *Basic Concepts of Historical Geology,* (Thomas Y. Crowell, First Edition).

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

Mr. Okulitch.

GERMAN

90. Beginners' Course.

Textbooks: Kirch and Moenkemeyer, *Functional German,* (American Book Co.); *Cultural Graded Readers:* Thomas Mann, Albert Schweitzer, Heine, (American Book Co.).

Ten hours lectures a week—3 units.

Mr. Miller.

110 and 120. First Year University German.

Textbooks: Remarque, *Drei Kameraden,* (Houghton Mifflin); Foltin, *Aus Nah und Fern;* Cochran, *Practical German Review Grammar,* (Prentice Hall).

Pre-reading required: *Cultural Graded Readers:* Heine, (American Book Co.).

Prerequisite: German 20 or German 90. Students with the necessary prerequisite for German 120 (German 92 or First or Second Class standing in German 90—University course) will be required to do extra class assignments in order to qualify for credit in that course.

Ten hours lectures a week—3 units.

Mr. Hodson.

200. German Literature from 1870 to the Present.

Textbook: Feise and Steinhauer, *German Literature Since Goethe—Part II,* (Houghton Mifflin Co.); Kafka, *Die Verwandlung,* (Norton, edited by M. L. Hoover).

Prerequisite: German 110 or 120.

Pre-reading required: List available from department. Bertolt Brecht, *Der gute Mensch von Sezuan,* (Suhrkamp Verlag).

Ten hours lectures a week—3 units.

Mr. Beaumont.

302. History of German Civilization.

Development of German culture from its beginnings to the nineteenth century. Lectures, discussions, and term papers in German. This course is recommended for prospective teachers of German.

Prerequisite: High standing in German 223 or equivalent proficiency.

Pre-reading required: H. Steinhauer, *Deutche Kultur. Ein Lesebuch,* I-V.

Pre-reading recommended: E. L. Jordan, *Deutsche Kulturgeschichte im Abriss.*

Textbooks: H. Steinhauer, *Deutsch Kultur. Ein Lesebuch,* (Oxford University Press, 1962); E. L. Jordan, *Deutsche Kulturgeschichte im Abriss,* (F. S. Crofts & Co., 1940).

Ten hours lectures a week—3 units.

Mr. Marahrens.

400. Nineteenth Century Drama.

A study of the chief dramatic works of the period and their background. Special attention will be given to critical interpretation.

Prerequisite: A 200 course in German or the equivalent.

Pre-reading required: Thomas M. Campbell, *German Plays of the Nineteenth Century,* (F. S. Crofts & Co., N.Y.) (read any five plays or more).

Pre-reading recommended: F. W. Kaufmann, *German Dramatists of the 19th Century,* (Lymanhouse, Los Angeles); Klaus Ziegler, *Das Deutsche Drama der Neuzeit,* (G. Schmidt, Berlin, 2nd ed.).

Ten hours lectures a week—3 units.

Mr. Boeschenstein.

HISTORY

201. British History.

A survey of British History from the late Anglo-Saxon period to the present day, with emphasis on political and constitutional development.

Ten hours lectures a week—3 units.

Mr. Ruigh.

202. History of Canada.

Introductory general course.

Textbook: McInnis, *Canada.*

Ten hours lectures a week—3 units.

Mr. Cornell.

204. Europe from the Fifth to the 16th Century

A survey of the main themes of European History from the fall of Rome to the Reformation.

Ten hours lectures a week—3 units.

Mr. Mudroch.

305. The Expansion of Europe—the Atlantic Area.

The history of European colonization and colonial administration in North and South America, the West Indies, and Africa.

Ten hours lectures a week—3 units.

Mr. Keppel-Jones.

318. England under the Tudors and Stuarts.

Textbooks: Elton, *England Under the Tudors;* Hill, *The Century of Revolution, 1603-1714.*

Ten hours lectures a week—3 units.

Mr. Norris.

410. The History of India, 1526-1947.

The major political, economic, and social developments in the Indian subcontinent from the Mughal period to the end of British rule, with preliminary treatment of the ancient and medieval periods.

Pre-reading required: Spear, *India: A Modern History,* Chapters I-IX.

Textbooks: Spear, *India: A Modern History,* (Univ. of Mich. Press, 1961); Davies, *An Historical Atlas of the Indian Peninsula,* (Oxford 1961).

Mr. Harnetty.

426. Canada after 1867.

A survey of the main features of political and economic development of Canada after 1867, with some consideration of foreign policy.

Textbook: Creighton, *Dominion of the North.*

Ten hours lectures a week—3 units.

429. History of the American Far West.

A history of the Far West with emphasis on the period since American expansion and conquest.

Textbook: Hafen and Rister, *Western America,* (revised ed. 1950).

Ten hours lectures a week—3 units.

HOME ECONOMICS

102. Textiles.

Fibres and Fabrics, characteristics and use.

Prerequisite H.E. 91 or equivalent.

Textbook: Stout, *Introduction to Textiles,* 1960.

Miss Smith.

104. Introductory Clothing.

Consumer Problems in family clothing. Advanced construction techniques.

Prerequisites: H.E. 91 or equivalent.

Textbook: Tate and Glisson, *Family Clothing,* 1961.

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

Miss Smith.

H.E. 102 and 104 are presented as a 3-unit course and must be taken in this manner.

201. Food Management II.

Advanced food preparation with emphasis on consumer problems in selection and on family meal planning.

Prerequisite: H.E. 105.

Textbooks: Heseltine and Dow, *The New Basic Cook Book,* 1957; Hughes, Osee, *Introductory Foods, or* Justin, Rust and Vale, *Foods.*

Mrs. Carrow.

310. Introduction to Human Nutrition.

Background information required for effective teaching of Health and Nutrition.

Textbook: Bogert, Jean, *Nutrition and Physical Fitness.*

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

Mrs. Carrow.

H.E. 201 and 310 are presented as a 3-unit course and must be taken in this manner.

421. Human Development and Family Relations.

Physical, mental, social and emotional development of infant and child; relations and contribution of the family as a unit and in the community.

Textbook: Stuart and Prugh, *The Healthy Child.*

***Ten hours lectures a week. Observations to be arranged*—3 units.**

Mrs. Brown.

INTERNATIONAL STUDIES

400. The Great Powers and World Politics, I.

A study of the Great Powers and their international policies between 1870 and 1939.

Textbook: Rene Albrecht-Carrie, *A Diplomatic History of Europe since the Congress of Vienna,* (Methuen & Co. Ltd., London).

Ten hours lectures a week—3 units.

Mr. Nelson.

ITALIAN

100. First Year Italian.

Grammar, reading, conversation.

Textbooks: Cioffari, *Beginning Italian Grammar,* (Heath); Speroni and Golino, *Panorama Italiano,* (Holt, Rinehart and Winston); Fowler and Della Torre, *Andiano in Italia,* (Harrop).

Ten hours lectures a week—3 units.

Miss Tomsich.

200. Second Year Italian.

Prerequisite: Italian 100 or the equivalent. Reading, composition and conversation.

Pre-reading suggested: Goldoni and Manzoni.

Textbooks: Goldoni, *La Locandiera* (Sansoni, Italy); Manzoni, *I Promessi Sposi* (Sansoni); Moravia, *Racconti Romani,* (Bonpiani, Italy); *Penguin Book of Italian Verse;* Cioffari, *Beginning Italian Grammar,* (Heath).

Ten hours lectures a week—3 units.

Mr. Ruberto.

305. Contemporary Italian Literature.

Prerequisite: Italian 200 or the equivalent.

Pre-reading suggested: Tozzi, Levi, Pavese and Moravia.

Textbooks: Gramsci, *Lettere dal Carcere* (Einaudi); Tozzi, *Ricordi di un Impiegato* (Vallecchi); Levi, *Cristo si e fermato a Eboli* (Einaudi); Pavese, *Il Carcere and La Casa in Collina* (Einaudi); Moravia, *La Ciociara* (Bompiani); Golino, *Contemporary Italian Poetry* (Univ. of Calif. Press); Selection of Lyrics.

Ten hours lectures a week—3 units.

Mr. Rimanelli.

LATIN

120, 200, 210, 220, 407 or 530. Composite Course in Latin.

Intended primarily for students attending the Summer Session. A substantial amount of a Roman author (in 1964 Livy and Tacitus) 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, 210, 220, 407 or 530 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 90 or equivalent (at least second class).

Pre-reading for Latin: first twelve units of De Witt, Gummere and Horne, *College Latin.*

Textbooks: Livy, I, ed. Stephenson; Livy, II-III, ed. Stephenson; Tacitus, *Agricola* and *Germania,* ed. Church and Brodribb. Translations: Livy, *The Early History of Rome,* A. de Selincourt; *Tacitus on Britain and Germany,* H. Mattingly.

Ten hours lectures a week—3 units.

Mr. McGregor.

MATHEMATICS

110. Fundamental Mathematics.

Sets, algebra, introduction to probability and statistics, elementary calculus. This course is recommended for students in commerce, the humanities, and the social sciences and will not be accepted as a prerequisite to Mathematics 155, 202, 220.

Prerequisite: Mathematics 91 (High School Programme).

Textbook: Mosteller, Rourke, and Thomas, *Probability and Statistics,* (Addison-Wesley). Continental Class Room Text.

Ten hours lectures a week—3 units.

120. Fundamental Mathematics.

Algebra, geometry, trigonometry, introduction to calculus. This course is recommended for students taking two sciences in First Year and intending to take Engineering, Architecture or a major or an Honours Course in Science or mathematics.

Prerequisite: Mathematics 91 or equivalent.

Text-book: *Calculus and Analytical Geometry,* Fisher and Zieber, (Prentice-Hall).

Ten hours lectures a week—3 units.

201. The Mathematical Theory of Investment.

Theory of interest, annuities, debentures, valuation of bonds, sinking funds, depreciation, probability and its application to life insurance. Primarily for students in Commerce.

Prerequisite: Mathematics 101 (Grade 13), 110 or 120, and Commerce 151 (which may be taken concurrently) or the written consent of the Department.

Textbook: Hummel and Seebeck, *Mathematics of Finance,* (McGraw-Hill, Second Edition).

Ten hours lectures a week—3 units.

202. Calculus.

Differential and integral calculus, with applications.

Textbook: Fisher and Zieber, *Calculus and Analytical Geometry,* (Prentice-Hall).

Prerequisite: Mathematics 101 (Grade 13) or 120.

***Ten hours lectures a week*—3 units.**

Mr. Rousseau, Mr. Bates.

203. Mathematics for Teachers.

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.

Ten hours lectures a week—3 units.

300. Calculus II.

Differential and integral calculus with applications.

Prerequisite: Mathematics 202 or 220.

Text-book: A. E. Taylor, *Calculus,* (Prentice-Hall).

Ten hours lectures a week—3 units.

303. Mathematics for Elementary Teachers.

A survey of elementary mathematics to parallel Mathematics 203. Open only to practising teachers who have not taken Mathematics 203, and for credit only in the Faculty of Education.

Ten hours lectures a week—3 units.

Mr. MacPherson.

305. Statistics.

Distribution theory, testing of statistical hypotheses, point and set estimation, parametric and non-parametric problems, elements of decision theory, analysis of variance.

Prerequisite: Mathematics 300 or 321 (which may be taken concurrently).

Textbook: Freund, *Mathematical Statistics,* (Prentice-Hall).

Ten hours lectures a week—3 units.

306. Topics in Geometry.

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

Prerequisite: Mathematics 202 or 220.

Ten hours lectures a week—3 units.

308. Topics in Algebra.

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 202 or 220.

Ten hours lectures a week—3 units.

310. Algebra and Geometry.

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

Prerequisite: Mathematics 202 (which may be taken concurrently) or 220.

Credit will not be given for both Mathematics 221 and 310.

Textbook: Uspensky, *Theory of Equations,* (McGraw-Hill).

Ten hours lectures a week—3 units.

412. Fundamentals of Analysis.

Set theory, functions, limits, differentiation and integration, series, probability and statistics.

Prerequisite: Mathematics 306 or 308.

Ten hours lectures a week—3 units.

MUSIC

Note: The following courses may not be taken for credit toward the B.A., B.Mus., or B.Sc. degrees, with the exception of Music 120, Music 326, and Music 320.

101. Elementary Theory.

Fundamentals of musicianship.

For credit only in the Faculty of Education.

Prerequisite to all other courses in music education.
Ten hours lectures a week—3 units.
Mr. Mitchell.

120. Introduction to Music History and Literature.
A survey of music designed primarily for first-year majors in the Department of Music. Open to non-music majors with some background in music.
Ten hours lectures a week—3 units.
Mr. Talney.

201. Counterpoint and Advanced Harmony.
A continuation and expansion of the materials studied in Music 101.
Prerequisite: Music 101 or equivalent training such as A.R.C.T.
For credit only in the Faculty of Education.
***Ten hours lectures a week*—3 units.**
Mr. Trowsdale.

302. Instrumental Technics.
Instruction in the playing and teaching technics of strings, brasses, woodwinds.
Limited to 20 students.
For credit only in the Faculty of Education.
Prerequisite: Music 201 or equivalent.
***Ten hours lectures and laboratory a week*—3 units.**
Mr. Turner, Mrs. Evans.

303. Choral Music.
Principles and technics of choral music.
Prerequisite: Music 201 or equivalent.
For credit only in the Faculty of Education.
Ten hours lectures a week—3 units.
Mr. Gibbard.

320. History of Music.
Detailed study of musical development from the earliest times to the present day.
Prerequisite: Music 120 or equivalent.
Text-book: Grout, *History of Western Music,* (W. W. Norton).
Ten hours lectures a week—3 units.
Mr. Marquis.

326. Music Appreciation.
Designed for senior students with no musical background.
Textbooks: Copland, *What to Listen for in Music;* Baker, *Pocket Music Dictionary.*
Ten hours lectures a week—3 units.
Mr. Hokanson.

401. Orchestration and Arranging for Chorus, Band and Orchestra.
The techniques of writing and arranging for various groups of performers.
For credit only in the Faculty of Education.
Prerequisite: Music 201 or equivalent training.
***Ten hours lectures a week*—3 units.**
Mr. Baravalle.

PHILOSOPHY

100. Introduction to Philosophy.

A systematic presentation of the problems of philosophy from the early Greeks to the present day.

Textbooks: *Knowledge and Value*, ed. by Sprague and Taylor; Ryle, *Concept of Mind* (Oxford); *Philosophy of Mind*, ed. by V. Chappell; Nowell-Smith, *Ethics* (Pelican).

***Ten hours lectures a week*—3 units.**

Mr. Coval.

202. Logic and Scientific Reasoning.

Introductory deductive logic; the grounds of empirical knowledge; scientific procedures and attitudes; practice in criticising arguments.

Textbook: *Symbolic Logic* (Macmillan).

Ten hours lectures a week—3 units.

Mr. Osborne.

304. Political Philosophy.

A study of problems in political philosophy based on the reading of classic texts.

Prerequisite: Preferably Philosophy 100 or 3rd or 4th year standing.

Pre-reading recommended: Plato, *Republic;* Aristotle; *Politics.*

Textbooks: Tussman, *Obligation and Body Politic,* (Oxford Press, N.Y., paper or hardcover); Bentham, *Principles of Words and Legislation;* Hart, *The Concept of Law.*

Ten hours lectures a week—3 units.

Mr. Cummins.

PHYSICAL EDUCATION

Students registering for any of the following courses must attend organizational meetings which will be held in the Memorial Gymnasium on the first day of scheduled classes at the appropriate hour.

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

101. Gymnastics I.

Introduction to Gymnastics.

One hour per day, July 6 - August 10 inclusive—1 unit.

140. Rhythms for Young Children.

One hour per day, July 24 - August 12, inclusive—½ unit.

209. Softball.

Fundamentals and rules.

Pre-reading recommended: (1) Men—Smilgoff, *Winning High School Baseball.*
(2) Women—Mitchell, *Softball for Girls.*
(3) Both—Noren, *Softball.*

Pre-reading required: Softball Rule Book, 1963.

One hour per day, July 24 - August 12, inclusive—½ unit.

Mr. L'Heureux.

210. Basketball.

Fundamentals, basic drills, simple offensive tactics.

Text-book: McCracken, *Indiana Basketball,* (Prentice-Hall).

One hour per day, July 24 - August 12, inclusive—½ unit.

Mr. Pomfret.

212. Football.

Fundamentals, basic drills and formations.

Textbook: Daugherty and Wilson, *First and Ten,* (Brown Co.).

One hour per day, July 2 - July 22, inclusive—½ unit.

Mr. Gnup.

214. Rugby.

Basic skills, rules, emphasis on playing.

One hour per day, July 2 - July 22, inclusive—½ unit.

218. Games, Contests and Relays.

Relay, group and recreational games and activities.

Pre-reading recommended: Hindman, *Indoor Games and Stunts.*

Textbook: Hindman, *Handbook of Active Games,* (Prentice-Hall, First Edition, 1951).

One hour per day, July 2 - July 22, inclusive—½ unit.

Miss Schrodt.

219. Volleyball.

Basic skills, rules, team tactics.

Pre-reading required: *Canadian Volleyball Annual and Rule Book, 1964.*

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

Text-book: R.C.A.F., *Coach's Manual—Volleyball,* (Queen's Printer).

One hour per day, July 2 - July 22, inclusive—½ unit.

Mr. L'Heureux.

226. Tennis.

Strokes, tactics, systems, umpiring.

One hour per day, July 2 - July 22, inclusive—½ unit.

Mr. Brown.

229. Weight Training.

Principles of progressive resistance exercise and its application to specific and general programmes of conditioning.

Prerequisite: P.E. 262, which may be taken concurrently, or Anatomy 390.

Textbook: Murray and Karpovich, *Weight Training in Athletics,* (Prentice-Hall, 1956 Edition).

One hour per day, July 24 - August 12, inclusive—½ unit.

Mr. Brown.

230. Swimming.

Elementary swimming skills, strokes, entries, water safety, Red Cross Senior Certificate.

Textbook: *Notes for Instructors,* (Canadian Red Cross Society).

One hour per day, July 24 - August 12, inclusive—½ unit.

Mr. Pomfret.

240. Dance.

Ballroom: waltz, foxtrot, rhumba.

One hour per day, July 24 - August 12, inclusive—½ unit.

Mr. Vincent.

242. Dance.

Ballroom; tango, samba, popular dance; variations of basic dances; introduction to dance teaching.

Prerequisite: Physical Education 240.

One hour per day, July 2 - July 22, inclusive—½ unit.

244. Dance.

Folk Dance I.

One hour per day, July 2 - July 22, inclusive—½ unit.

245. Dance.

Folk Dance II.

One hour per day, July 24 - August 12, inclusive—½ unit.

250. Track and Field I.

Introduction to track and field activities; sprints, relay racing, middle distance, high jump and broad jump.

Pre-reading recommended: Luke, *Coaching High School Track and Field.*

One hour per day, July 2 - July 22, inclusive—½ unit.

251. Track and Field II.

Hurdles, pole vault, weight events, distance running.

Pre-reading recommended: Luke, *Coaching High School Track and Field.*

One hour per day, July 24 - August 12, inclusive—½ unit.

260. Principles of Physical Education.

A study of fundamental principles, aims, objectives to formulate the students' professional point of view; a study of competition, its history, basic principles, and its place in education.

Textbook: Oberteuffer, *Physical Education,* (Harper).

One hour per day, July 2 - August 12, inclusive—1½ units.

Mr. L'Heureux.

262. Health I.

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

Textbook: Miller and Miller, *Good Health, Personal and Community,* (Saunders Co., 1960).

One hour per day, July 2 - August 12, inclusive—1½ units.

301. Gymnastics III (A).

Fundamental exercises; small apparatus; pyramids and demonstration work; emphasis on class instruction.

Prerequisite: Physical Education 201 or Physical Education 101.

One hour per day, July 24 - August 12, inclusive—1 unit.

Mr. Whittle.

310. Advanced Basketball.

Team tactics; rules; coaching and officiating techniques; use and development of material.

Prerequisite: Physical Education 210.

One hour per day, July 2 - July 22, inclusive—1 unit.

Mr. Pomfret.

313. Advanced Grass Hockey.

Team tactics; coaching and officiating techniques.

Prerequisite: Physical Education 213.

One hour per day, July 24 - August 12, inclusive—1 unit.

Miss Schrodt.

316. Advanced Soccer.

Team tactics; organization, coaching methods; rules, refereeing.

Prerequisite: Physical Education 216.

One hour per day, July 24 - August 12, inclusive—1 unit.

Mr. Johnson.

330. Swimming.

Life-saving; advanced swimming; Red Cross Instructor's Certificate; teaching practice.

Prerequisite: Physical Education 230.

Textbook: *The Canadian Handbook of Life Saving Instruction,* (Royal Life Saving Society, Canada).

One hour per day, July 2 - July 22, inclusive—1 unit.

Mr. Pomfret.

462. Health II.

Problems in health education; mental hygiene, common diseases, social hygiene, community health and sanitation.

Prerequisite: Zoology 303 or Anatomy 390 or Physical Education 262.

Textbook: Diehl, *Text-book of Healthful Living,* (McGraw-Hill, Sixth Edition).

One hour per day, July 2 - August 12, inclusive—1½ units.

Mr. Whittle.

470. Tests and Measurements.

Physical education tests; physical fitness, physiological fitness, posture, strength, motor ability, social efficiency measures, skill tests, knowledge tests.

One hour lecture per day and laboratory hours to be assigned, July 2 - August 12, inclusive—1½ units.

Mr. Brown.

PHYSICS

Note: It is proposed to offer senior courses according to the following schedule: 1965—Physics 308 and 400; 1966—Physics 300.

101. Elementary Physics.

Principles of mechanics, properties of matter, heat, light, sound, electricity, and some of the more recent developments in physics.

Students who have not taken Physics 91 in high school may take Physics 101, but may be required to do additional work. They must have read the Physics 91 text-book by Blackwood, Herron and Kelly, *High School Physics.*

Textbook: Miller, *College Physics,* (Harcourt Brace, latest edition).

Prerequisite: Mathematics 101 (Grade 13) or 120.

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

200. Intermediate Physics.

Statics, dynamics, properties of matter, sound, heat and kinetic theory of gases, photo-electricity and the Bohr atom.

Prerequisite: Physics 101; Mathematics 202.

Textbook: Shortley and Williams, *Elements of Physics,* (Prentice-Hall, latest edition).

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

300. Electricity and Magnetism.

Fundamentals of magnetism and electricity including basic A.C. circuit theory.

Prerequisites: Physics 200; Mathematics 202 or 220.

Textbook: Duckworth, *Electricity and Magnetism*, (Macmillan, latest edition).

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

400. Atomic and Nuclear Physics.

The major phenomena in the fields of atomic and nuclear physics with special lecture demonstrations. Primarily for students majoring in Physics.

Prerequisite: Physics 300 or equivalent.

Textbook: Weidner and Sells, *Elementary Modern Physics*, (Allyn and Bacon, latest edition).

Ten hours lectures a week—3 units.

430. Recent Developments in Physics.

This course is available for credit only in the Faculty and College of Education. It consists of lectures and demonstrations and is intended to review the latest developments in physics.

Ten hours lectures a week—3 units.

Members of the Physics Department Staff.

POLITICAL SCIENCE

200. Democratic Government and Politics.

A basic course designed to introduce the student to the scope, problems, and methods of political science; a comparative and analytical inquiry into the political institutions and processes of Canada, the United Kingdom, and the United States.

Prerequisite: First Year standing.

(Not open to students who have taken Political Economy 101.)

Ten hours lectures a week—3 units.

Mr. Black.

303. East Asian Government.

A general survey of the constitutions, systems of government, and government institutions in contemporary Japan, China, and Korea.

Textbook: Theodore McNelly, *Contemporary Government of Japan*, (Houghton Mifflin, Boston, 1963).

Ten hours lectures a week—3 units.

Mr. Langdon.

PSYCHOLOGY

100. Introductory Psychology.

Practical study of the basic forms of human behaviour with emphasis on motivation, sensation, thinking, learning, emotion, adjustment, individual differences and personality.

Textbook: Ruch, *Psychology and Life* (6th Edn.).

Ten hours lectures a week—3 units.

Mr. Craig.

206. Dynamics of Behavior.

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

Prerequisite: Psychology 100 or equivalent.

Textbook: Sawrey and Telford: *Dynamics of Mental Health.*

Ten hours lectures a week—3 units.

Mr. Signori.

305. Personality Theory.

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

Prerequisite: Psychology 206.

A reading list will be provided.

Ten hours lectures a week—3 units.

308. Social Psychology.

Personality development, motivation, beliefs and attitudes, language, institutional behavior, leadership, propaganda, freedom and control, major social problems.

Credit not allowed for both 201 and 308.

Prerequisites: Psychology 100 and one 200 course, except 201.

Ten hours lectures a week—3 units.

Mr. Sampson.

403. Tests and Measurement.

The principles underlying the construction of psychological tests; a critical evaluation of intelligence, aptitude, achievement, attitude, interest and personality tests. Knowledge of elementary statistics is desirable.

Prerequisite: Psychology 206.

Textbook: Cronbach, *Essentials of Psychological Testing,* (Harper, Second Edition).

Ten hours lectures a week—3 units.

Mr. DeVries.

405. Learning.

A critical survey of the basic experimental findings and theory of the learning process, with emphasis on the theoretical formulation of the necessary conditions for learning, retention and transfer of training.

Prerequisites: Psychology 100 and 206.

Textbook: J. Deese, *Psychology of Learning,* (McGraw-Hill), Second Edition.

Ten hours lectures a week—3 units.

Mr. Hare.

RUSSIAN

100. Basic Russian.

Introductory course for all beginners. Grammar, reading, translation, oral practice.

Limited to 20 students.

Textbook: Lunt, *Fundamentals of Russian,* (Morton & Co.).

Ten hours lectures a week—3 units.

Mr. Schwencke.

200. Second Year Russian.

Limited to 30 students.

Prerequisite: Russian 100 or its equivalent.

Pre-reading recommended: Pargment, *Beginner's Russian Reader,* (Pitman, Second Edition).

Textbook: Lunt, *Fundamentals of Russian.* Other texts to be announced.

Ten hours lectures a week—3 units.

300. Third Year Course in Russian Translation and Composition.

Limited to 20 students.

Prerequisite: Russian 200 or its equivalent.

Pre-reading required: Konovalov (Editor), *Russian Prose Reader (1) (Complete),* (International Univ. Press).

Pre-reading recommended: Chapters 1, 3, 8, 11, 14, 15, 20, 21, 22, 23 in *The Russian People,* and the following stories in Iwanik: God Sees the Truth but Waits, The Winning Ticket, The Cold Autumn, A Sentimental Romance, The Beginner, Laughter, The Canvas Portfolio, The Lion.

Textbooks: Lavrin (Editor), *Russian Poetry Reader (1),* (Blackwell); Tchebotariogg-Bill, *The Russian People,* (U. of Chicago Press); MacPherson & Wissotsky, *Passages for Russian Translation & Composition,* (Edward Arnold & Co.); Iwanik, *Russian Short Stories,* (Copp Clark).

Ten hours lectures a week—3 units.

Mrs. Reid.

SOCIOLOGY

200. Introduction to Sociology.

A general introduction to the sociological analysis of selected topics (such as values, work, stratification, kinship and socialization, particular social roles and the problem of national character) which together would constitute a broad description of a large scale society.

Readings to be assigned.

Ten hours lectures a week—3 units.

Mr. Marriage.

405. Sociological Theory.

Convergence and difference in the work of more recent sociological theorists, especially Durkheim, Weber, Parsons and Schuetz and the relevance of their work to selected problems of research.

This course will be held jointly with Anthropology 400.

Ten hours lectures a week—3 units.

Mr. Cohen.

SPANISH

100. First Year Spanish.

Textbooks: Rogers, *Spanish for the First Year,* (Macmillan, N.Y., 5th ed.); Kasten and Neale-Silva, *Lecturas Escogidas,* (Harper and Bros., N.Y., 27th ed.).

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

Miss Gallostra.

200. Second Year Spanish.

Prerequisite: Spanish 100 or equivalent.

Pre-reading: *Dos Novelas Cortas* by Unamuno.

Textbooks: Da Silva and Lovett, *A Concept Approach to Spanish,* (Harper and Bros., N.Y.); de Unamuno, *Dos Novelas Cortas,* (Ginn and Co.); Ashburn, *Selected Spanish Short Stories,* (Crowel Co., N.Y.).

Ten hours lectures a week—3 units.

Mr. Bartroli.

THEATRE

300. Theatre Practice.

(a) Speech: breath support and control, tone production, articulation, inflection, interpretation, individual freedom of expression; (b) Acting: principles of acting, mime, interpretation of the role, class presentation of short scenes in various dramatic styles.

For credit in the Faculties of Arts and Education.

Limited to 32 students.

Pre-reading required: Tyrone Guthrie, *A Life in the Theatre.*

Pre-reading recommended: Stanislavski, *My Life in Art.*

Textbook: Moore, *The Stanislavski Method,* (Compass Books, Viking Press, 1962, Re-issue).

This course is open to non-credit (Extension Department) as well as credit students.

Students are strongly advised not to register in a second course.

***Ten hours lectures and fifteen hours laboratory a week. Extra rehearsals as arranged.*—3 units.**

For lecture and laboratory times and places, see Summer School of Theatre timetable on page 72.

Mrs. de Branscoville, Mr. Wilson.

301. Children's Theatre.

A study of the psychological and creative approach to drama with children and to theatre for children in the Elementary School age, primary and intermediate divisions. The course will consist of lectures and of laboratory periods in which students will participate in the preparation of a short play for children.

For credit only in the Faculty of Education.

This course will be open to non-credit (Extension Department) as well as credit students.

Limited to 30 students.

Textbook: Slade, *An Introduction to Child Drama,* (University of London Press, 1958).

***Ten hours lectures a week*—3 units.**

Miss Stevenson.

310. History of the Theatre to 1700.

A study of the theatre from its beginnings in primitive ritual, through Classical and Mediaeval theatre, to the merging of the Graeco-Roman, Christian and folk traditions in the theatres of Italy, England, France and Spain in the 16th and 17th centuries. Emphasis will be placed on the various arts of the theatre and their relation to the social, religious and philosophical movements of the periods studied.

Pre-reading recommended: Plays which will be discussed in the course. (List obtainable from Department of Theatre.)

Textbook: Gassner, *Masters of the Drama,* (Dover, latest ed.).

Ten hours lectures a week—3 units.

Mr. Brockington.

ZOOLOGY

105. General Zoology.

An introduction to animal biology; structure, function, evolution and classification of animals. Vertebrate and invertebrate.

Limited to 50 students.

***Note*: This course is prerequisite to all other courses in Zoology and to most courses in Biology.**

Textbook: Storer and Usinger, *General Zoology,* (McGraw-Hill, Latest Edition).

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

Mr. Finegan.

302. Microanatomy.

Morphological and physico-chemical organization of the cell, description of the fundamental tissues; introductory embryology with an emphasis on causal principles of development.

Textbooks: De Robertis et al, *General Cytology*, 3rd ed., (Saunders); Bloom & Fawcett, *Textbook of Histology*, 8th ed., (Saunders); Balinsky, *Introduction to Embryology*, (Saunders).

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

Mr. Finnegan.

419. Histological and Histochemical Technique.

The theory and practice of histological technique, so applied to animal tissues, currently in use in biological research. Reference will be made to techniques suitable for use with light, phase contrast, fluorescence and electron microscopes. The course is suitable for teachers interested in preparing materials for class use and for technicians. Students will prepare for their own use a set of permanent preparations.

Pre-reading recommended: Any histology text, e.g. Windle, *Textbook of Histology*, (McGraw-Hill); Ham, *Histology*, (Lippincott).

Textbook: Ford, *Advanced Histological Technique*, (Scholars Library, N.Y.).

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

Mr. Ford.

SUMMER SESSION REGISTRATION — 1963

Credit Courses

MEN	WOMEN	TOTAL
2755	2708	5463

CORRESPONDENCE CREDIT COURSES

Students are reminded that the following correspondence courses are available: Commerce 151, Economics 306, Education 412, English 200, English 300, English 429, English 431, French 210, History 212, Philosophy 100, Psychology 100, Psychology 301. (Com. 151, Eng. 300 and 431 commence in September and finish the following April.)

Knowledge of the availability of these courses may assist students in planning their programmes of studies.

DEPARTMENT OF UNIVERSITY EXTENSION
SUMMER SCHOOL OF THE ARTS
June 29 to August 14

For more than a quarter century, the Summer School of the Arts at the University of British Columbia has continued to be an important influence in the cultural life of the Canadian West. Its programmes of training, experiment and production, presented in a unique climate of creative congeniality, hold strong attractions for outstanding instructors. In this artistic setting, students find the kinds of opportunity and stimulating experiences to prepare them for participation and leadership in many areas of the arts.

As in past years, the 1964 Summer School will include courses in Theatre, Music and the Visual Arts, with a Workshop in Contemporary Music and a Seminar on Contemporary Painting being presented for the first time. The noted Finnish potter and designer, Miss Kyllikki Salmenhaara, will conduct a 3-week Workshop in Advanced Ceramics.

The curricula of a number of these courses, notably Theatre and the Visual Arts, have been revised to meet the requirements for higher standards now demanded from those who wish to participate more fully in the arts.

The programme of the Summer School offers convincing evidence of the growing involvement in the performing arts by North American universities.

The 85-voice Harvard Glee Club and Radcliffe Choral Society, representing two of America's most distinguished colleges, will mark the opening of Summer Session with a concert in Buchanan Quadrangle on July 2, presented in conjunction with the 1964 Vancouver International Festival. The Summer School will be brought to a close with a major production of the Theatre School, under the guidance of guest director, Donal Wilson.

Further influence of the Vancouver International Festival coinciding with the opening weeks of Summer School will be found in the Fine Arts Concert and Lecture Series to be presented in the new Frederic Wood Theatre. Two outstanding exponents of contemporary music, pianist Leonard Stein and mezzo-soprano Cathy Berberian, will be heard in a lecture-recital, and in a CBC broadcast recital of modern chamber music. As in 1963, co-operation between the CBC and the Summer School of the Arts will provide a UBC audience with a recital by the world-famous British pianist, Denis Matthews.

In the Visual Arts, Robert Sperry, University of Washington, will present a lecture and film on Japanese pottery, followed by three lectures on contemporary American painting with Sam Hunter, Brandeis University. These lectures will culminate in a two-day seminar with leading American and Canadian painters participating.

The Summer School on Public Affairs will offer two major week-long programmes. "Canada's Foreign Aid Programme" will be the subject of discussion during the week of July 12, and a seminar on "Scandinavia" will begin on July 26. A lecture series on public affairs will also be presented during July and August.

Scholarships

Community, business organizations and individuals generously continue to support the Summer School of the Arts through bursaries and scholarships. Students are advised to obtain information about the courses for which bursaries and scholarships are available and to make application for them not later than May 1.

Grants and scholarships are also available from The Canada Council, and interested students should write to: The Secretary, The Canada Council, 140 Wellington Street, Ottawa, Ontario, for further information.

Information

For information concerning courses, public lectures and concerts, and scholarships offered in the various fields of the arts write to:

Summer School of the Arts,
Department of University Extension,
The University of British Columbia,
Vancouver 8, B.C.

Railway Fares

For information on reduced railway fares see page 22.

STAFF

Theatre

SYDNEY RISK, M.A., Director, Summer School of Theatre.
DONAL WILSON, B.Ed., M.F.A., Guest Director.
FREDA M. DE BRANSCOVILLE, F.T.C.L., A.T.C.M.
JANIE STEVENSON, L.R.A.M., L.G.S.M., A.L.A.M.
JESSIE RICHARDSON.
NORMAN YOUNG, B.A.
HELEN GOODWIN.
ARISTIDES GAZETAS, M.F.A.
FRENCH TICKNER.
IAN PRATT.

Music

ALLEN E. CLINGMAN, Director of High School Band and Orchestra Workshop.
FRENCH TICKNER, Director, Opera Workshop.
WINONA DENYES, Coach-Accompanist, Opera Workshop.
WILMA DOHLER, Coach-Accompanist, Opera Workshop.
LYNNE JARMAN, Coach-Accompanist, Opera Workshop.
JUDI LUMB, Librarian, Opera Workshop.
GERALDINE RICHARDSON, Costume Mistress, Opera Workshop.
MARK ROSE, Recorder Workshop.
LEONARD STEIN, Contemporary Music Workshop.
CATHY BERBERIAN, Contemporary Music Workshop.
DENIS MATTHEWS, Concert Pianist.
HARVARD GLEE CLUB AND RADCLIFFE CHORAL SOCIETY, Elliot Forbes, conductor.

Visual Arts

HERBERT SIEBNER, Painting Workshop.
KYLLIKKI SALMENHAARA, Advanced Pottery Workshop.
HILDA ROSS, Pottery for Beginners.
SAM HUNTER, Lecturer, Contemporary Painting.
ROBERT SPERRY, Lecturer, Japanese Pottery.

SUMMER SCHOOL OF THEATRE

June 29 to August 15

To those interested in preliminary training for a professional career in theatre, and to those wishing to further their contribution to community theatre or to the development of drama in the schools, the Summer School of Theatre offers a seven-week programme of intensive training and practical experience under the guidance of a staff of highly qualified instructors. Students participate in daily classes, selected according to their interests and needs, as well as in the presentation of plays for public or studio performance.

The School is proud of its reputation for high standards of instruction and performance. It is proud also of the contribution which many of its former students have made to Canadian theatre and of the number of its students who have been accepted into the National Theatre School of Canada. The School seeks to provide a practical, enriching and happy experience to those who attend it.

STAFF

DONAL WILSON, B.Ed. (Brit.Col.), M.F.A. (Yale). Mr. Wilson returns as Guest Director of the Summer School of Theatre after an absence of several years. He has had wide experience as a producer and director with CBC-TV and as stage manager and actor in London and New York. He has been an assistant to and studied with Tyrone Guthrie, Elia Kazan, Harold Cluman, Lee Strasberg and other famous teachers and directors.

SYDNEY RISK, M.A. (Cornell), Director, Summer School of Theatre. Mr. Risk has been associated for many years with theatre at the University and is well-known throughout the Province as the Field Supervisor of Drama for the Department of University Extension.

FREDA M. DE BRANSCOVILLE, F.T.C.L., A.T.C.M. Before taking up residence in Edmonton, where she has been teaching speech for the Department of Drama and Extension of the University of Alberta, Mrs. de Branscoville was widely known as actress and vocalist with the Canadian Broadcasting Corporation in Vancouver. After an absence of some years she made a welcome return in 1962 to the staff of the Summer School of Theatre.

JANIE S. STEVENSON, L.R.A.M., L.G.S.M., A.L.A.M. Instructor, Department of Theatre. In charge of courses in Speech and Children's Theatre for the University's College of Education, Miss Stevenson brings to the Summer School of Theatre a wide experience as teacher, director and adjudicator.

JESSIE RICHARDSON. Mrs. Richardson directs the costume department of the Summer School of Theatre. In addition to her many years of association with all aspects of theatre at the University, Mrs. Richardson is a Director of Holiday Theatre and a member of the Executive Committee of the Dominion Drama Festival.

NORMAN YOUNG, B.A. (British Columbia). Technical Director and Lecturer, Department of Theatre. Mr. Young's background includes work as Staging Supervisor and Design Director with the CBC, Production Manager and Stage Manager with the Vancouver International Festival and Holiday Theatre.

HELEN GOODWIN. Following her studies at the Art of Movement Studio, London, England, with Rudolph Laban and Lisa Uhlmann, Mrs. Goodwin toured Scandinavia in 1953/4 studying and teaching on a grant from the Liverpool Council of Education. She has directed movement and choreography classes for theatre groups in England and Canada, and is now an Instructor in Movement and Dance, School of Physical Education and the Faculty of Education at the University of British Columbia.

ARISTIDES GAZETAS, M.F.A. (Boston). Appointed in 1963 as Instructor in Scene Design in the Department of Theatre, Mr. Gazetas is a member of the United Scenic Artists (Local A. 29). In addition to working with such Broadway designers as David Hays, Lester Polakov and Joe Mielziner, he has for the last three years designed operas for the Goldovsky and Boston Opera Companies and the Vancouver International Festival.

FRENCH TICKNER, Drama Coach, Stage Make-up Instructor, Department of Drama, and Stage Director, Opera Theatre, University of Southern California, and Director, 1962/3 U.B.C. Opera Workshop.

IAN PRATT. Mr. Pratt has had considerable experience as stage technician with Theatre Under the Stars, the Vancouver International Festival, and the Canadian Broadcasting Corporation TV studio. At the present time he is on

the staff of the University's Department of Theatre as Assistant Technical Director, and during 1961/3 was on the technical staff of the Summer School of Theatre.

COURSES

Theatre Practice: Acting and Speech

(Theatre 300 Credit Course and Extension Department non-credit course).

The theory and practice of acting: fundamentals of voice production and speech; participation in a play in public or studio performance. This course includes the following two subjects:

Acting: Principles of acting, improvisation, creating a character, class presentation of acting scenes.

Speech: Breath control, voice production, tone quality, articulation, projection. More advanced work in interpretation will include the preparation of prose or poetry excerpts for class presentation and discussion.

Fifteen hours a week.

Mr. Wilson, Mrs. de Branscoville.

Stage Movement:

The student will develop the use of the body as an expressive instrument and master the medium of movement as the material of expression. This will then be applied to its use in characterization, group situations and style pieces.

Five hours a week.

Mrs. Goodwin.

Stage Costume:

The actor's relation to stage costume: design, construction, deportment and attire.

Four hours a week.

Mrs. Richardson.

Make-up:

A practical study of make-up materials and their use by the actor as an aid to the projection of his performance.

Four hours a week.

Mr. Tickner.

Directing:

A course dealing with the various problems a director must consider in bringing a play to performance: analysis and interpretation of script, stage movement and business, rhythm, setting, and conducting of rehearsals.

Five hours a week.

Mr. Risk.

Technical Staging:

Students who are interested in any aspect of Technical Staging of a play, may be allowed to do some practical work with the Technical Director and his staff in the Scene Shop. Arrangements for this addition to the student's programme may be made only by permission of the Director of the School.

Participation in a Play:

All students will have the opportunity of participating in the production of plays presented in public or studio performances in the final weeks of the School. Students seeking credit for Theatre 300, or an Extension Department certificate, are required to participate.

Children's Theatre:

(Theatre 301 credit course in the Faculty of Education only, and Extension Department non-credit course.)

A study of the creative approach to drama *with* children and theatre *for* children in the primary and intermediate divisions of the elementary school age. The course will consist of lectures and laboratory periods in which students will (a) study the principles of creative expression for children through improvised dialogue and movement, and (b) participate in the preparation of a short play for children.

Ten hours a week.

Miss Stevenson.

PROGRAMME OF STUDIES:

Required for non-credit students taking THEATRE PRACTICE.

Speech: 2 hours daily.

Acting: 1 hour daily.

Stage Movement: 1 hour daily.

Stage Costume: 2 hours, 2 days per week.

Make-up: 2 hours, 2 days per week.

Play Participation: 2 hours daily, plus evening and weekend rehearsals as called.

Required for students taking THEATRE 300 (University Credit Course).

Speech: 1 hour daily.

Acting: 1 hour daily.

Play Participation: 2 hours daily, plus evening and weekend rehearsals as called.

Study and Private Rehearsal: 1 hour daily.

Stage Movement: Optional, 1 hour daily.

Required for students taking DIRECTING.

In addition to directing short scenes for class presentation and attending rehearsals of the School's productions, students will be required to register for a minimum of *two* other courses best suited to their needs and chosen from among the following in consultation with the Director.

Acting: 2 hours daily.

Speech: 1 hour daily.

Stage Movement: 1 hour daily.

Stage Costume: A certain number of classes as arranged by instructors.

Technical Staging: A certain number of classes as arranged by instructors.

Theatre History Lectures:

Students will have the opportunity of attending a series of noon-hour lectures designed to introduce them to the historical background of the major developments in theatre. Dates of these lectures will be announced at the opening of the School.

Personal Interviews and Examinations:

On the opening day of the School all students will have the opportunity of discussing their courses with the director and instructors.

All students will be required to write a final examination except in those cases where special exemption is granted.

Opening Meeting of the School:

Monday, June 29, at 10:00 a.m. in the Frederic Wood Theatre. (All students required to attend.)

Time Table (Subject to change):

8:30 a.m. — 9:20 a.m.	MOVEMENT (Sections B & C), SPEECH (Section A).
9:30 a.m. — 10:20 a.m.	MOVEMENT (Section A), SPEECH (Section B).
10:30 a.m. — 11:20 a.m.	DIRECTING.
10:30 a.m. — 12:20 p.m.	MAKE-UP, COSTUMES.
1:30 p.m. — 2:20 p.m.	ACTING (Section C), SPEECH (Section B), STUDY PERIOD (Section A).
2:30 p.m. — 3:20 p.m.	ACTING (Sections A, B, and C).
3:30 p.m. — 5:20 p.m.	REHEARSALS. Additional evening and weekend rehearsals will be called at the discretion of the directors.
1:30 p.m. — 3:30 p.m.	Children's Theatre.

Classrooms will be announced at the opening meeting of the School on Monday, June 29 at 10:00 a.m. in the Frederic Wood Theatre.

Fees:

Full non-credit course (two or more subjects)	$85.00
Theatre 300 or 301 (for credit)	$66.00
(Credit students taking an additional non-credit course will be required to pay an additional $19.00)	
Single non-credit subject	$42.50
Stagecrafts Laboratory fee	$ 2.00
Summer Session Association fee	$ 2.00

N.B.—Participation in a play is included in all the above.

N.B.—Theatre 300 and 301 are available to both credit and non-credit students. Credit students, instead of applying to the Extension Department, must complete their registration through the Registrar's Office by June 1.

See page 15 for regulations.

Scholarships and Bursaries:

Applications for scholarships and bursaries must be received by May 1. It is also hoped that community organizations will undertake to assist deserving students.

Information concerning applications will be forwarded upon request.

Admission to the School: (non-credit students)

Students must be seventeen years of age or older and have completed grade XI.

For Inclusive Acting Programme: Admission based on auditions and/or interviews or, in cases where it is not possible to arrange an audition or interview, on letters of recommendation from persons with a knowledge of theatre.

Directing and Technical Staging Programmes: Admission based on previous experience and on interviews or letters of recommendation from persons with a knowledge of theatre.

Theatre 300 and 301: (University credit students). Admission based on usual University regulations.

(See under Theatre on page 72).

Auditions and Interviews:

Auditions and interviews will be given by MR. SYDNEY RISK and MR. SAM PAYNE in a number of towns throughout British Columbia during the month of April. Anyone wishing to apply for admission to the School should arrange as soon as possible through the Extension Department for an audition.

Accommodation:

Accommodation for out-of-town students is available on the University campus.

For all information and application forms write:

Summer School of Theatre,
Department of University Extension,
The University of British Columbia,
Vancouver 8, B.C.

SUMMER SCHOOL OF MUSIC

July 2 to August 9

The Department of University Extension, in co-operation with the University's Department of Music and the Faculty of Education, will offer an extensive music programme comprising an Opera Workshop, a High School Band and Orchestra Workshop, a Master Class in Contemporary Music and a short course in recorder designed for classroom teachers.

OPERA WORKSHOP

June 29 to August 7

This workshop is designed to provide an opportunity for vocalists to acquire training and experience in the "stage arts" of the opera singer. Emphasis will be placed on make-up, operatic acting, stage movement and the changing vocal styles from the 18th century to the present day. The course will be built around a series of studio scenes and excerpts to be presented in the Frederic Wood Studio as the culmination of the six weeks of evening sessions. By using a programme of excerpts, rather than concentrating on a single major production, all students are able to participate to the fullest extent of their abilities.

Director: French Tickner. Drama Coach, Stage Make-up Instructor, Department of Drama, and Stage Director, Opera Theatre, University of Southern California, who returns for the fourth successive summer to direct the Opera Workshop. A graduate of Milliken University and the University of Illinois, Mr. Tickner has been General Manager and Stage Director, Tucson Civic Opera; Producer-Director of the U.S. Naval Special Services, and has sung major baritone roles in "Die Meistersinger", "Carmen", "Salome", "The Medium", and "Falstaff".

Coach-Accompanists: Winona Denyes, Wilma Dohler, Lynne Jarman.

Librarian: Judi Lumb.

Costume Mistress: Geraldine Richardson.

Monday through Friday.

Time: 7:00 - 11:00 p.m.

Place: Music Building and Frederic Wood Theatre.

Fee: $50.00.

Summer Session Association Fee: $2.00.

Enrollment in this course is limited to 15.

A limited number of bursaries are available for the Opera Workshop and applications for these must be made prior to May 1.

Since all singers are chosen by audition, students are advised to obtain the necessary application forms as early as possible.

For further information write to:

Summer Opera Workshop,
Department of University Extension.
The University of British Columbia,
Vancouver 8, B.C.

HIGH SCHOOL BAND AND ORCHESTRA WORKSHOP

July 7 to July 27

Allen E. Clingman, B.M.E., M.M.E., M.A., Ed.D. — Director, Associate Professor of Music and Education, U.B.C. Dr. Clingman is presently President of the B.C. Music Educators' Association and a member of the National Council of the Canadian Music Educators' Association.

Conductors of Bands, Orchestras, and Instrumental Specialists, to be announced.

An expansion of the Summer Music Camp of the previous six summers, the High School Band and Orchestra Workshop will offer young instrumentalists an opportunity of working with highly skilled Band and Orchestra directors and with specialists in the areas of the student's particular instrumental interest.

In addition to a Concert Band and a Concert Orchestra of high technical calibre, training groups will be formed for those students who have not advanced technically as much as others.

All groups will present public programmes on the U.B.C. campus during the Workshop session. Additional recitals of music by Brass, Woodwind, and String ensembles will also be featured.

Students of high school age (13 through 18) are eligible to attend although some younger students will be accepted in the string part of the programme. A limited number of scholarships and bursaries will be available to assist students in financing their attendance.

As the High School Band and Orchestra Workshop extends for three weeks, seven days a week, housing and meals will be provided on the University campus. Counsellors and athletic directors will be on the Workshop staff to provide full guidance and supervision. All musical rehearsals will be held in the University Hill High School.

SCHEDULE OF ACTIVITIES

8.30 a.m. - 9.30 a.m.
Classroom work: Theory (Ear-training, Sight Singing, etc.)

9.50 a.m. - 11.50 a.m.
Rehearsals: Concert Band, String Orchestra, Training Band and Orchestra.

1.30 p.m. - 3.30 p.m.
Rehearsals: Concert Band Sectionals, Concert Orchestra, Training Band and Orchestra.

4.00 p.m. - 5.30 p.m.
Recreation: Sports, Swimming, etc.

7.30 p.m. - 9.00 p.m.
Evening Programme: Recitals, Folk Dancing, Entertainment, Recreation.

FEES

Tuition	$52.00
Room and Board	$48.00

SCHOLARSHIPS AND BURSARIES:

Applications for scholarships and bursaries must be made prior to May 1 to:

High School Band and Orchestra Workshop,
Department of University Extension,
The University of British Columbia,
Vancouver 8, B.C.

Classroom Teachers Recorder Workshop

July 20 - July 31

This course is designed to assist the classroom teacher to use the recorder-flute as an effective teaching aid in music classes for Grade 4 students and above. Sessions will include practical experience in developing skills in the playing of the instrument, as well as techniques for class instruction. Music will be drawn from folk-song material and from the characteristic recorder music of the Renaissance and Baroque periods. Each student will furnish his own instrument and music. For advice in this matter, write to Mr. Mark Rose, Faculty of Education, U.B.C.

Instructor: Mark Rose, Faculty of Education.

Place: Room 20, Hut O-16.

Time: 3:45 to 4:45 p.m.

Fee: $10.00.

Minimum enrollment for this workshop is twenty, with a maximum enrollment of twenty-five. Advance enrollment is urged.

For further information and advance enrollment for this workshop only, apply to:

Office of Short Courses and Conferences,
Department of University Extension,
The University of British Columbia,
Vancouver 8, B.C.

MASTER CLASS IN CONTEMPORARY MUSIC

June 22 to July 3

A course designed to be of specific interest to pianists and singers who wish to develop their technical ability and their knowledge in the area of music by composers from Schoenberg to the present day. Although only a limited number of participating students will be enrolled, provision is made for a larger number of auditors. The schedule of sessions and their content will be determined by the co-directors: Leonard Stein and Cathy Berberian.

LEONARD STEIN has long been associated with the father of dodecaphonic composition, Arnold Schoenberg, first as his teaching assistant, later as collaborator and editor of his theoretical texts, and finally as performer of his works. He is well-known as a recording artist through his participation in the complete recordings of the works of Anton Webern. As chairman of the Southern California Chapter, International Society for Contemporary Music, he was instrumental in first introducing Webern's music to any great extent in the United States. His career as pianist and conductor of significant music of present-day composers has taken him throughout Europe and America. His contribution to the 1963 U.B.C. Festival of Contemporary Arts will be remembered by many Vancouver concert-goers.

CATHY BERBERIAN has, within the past few years, achieved an outstanding position among the handful of singers who have turned their attention to contemporary music. Born in the United States, of Armenian parents, this fine mezzo-soprano's initial training was in the theatre and dance, followed by intensive musical training which led to a brilliant career on the concert and operatic stages of the United States and Europe. In Europe, Miss Berberian won a Fulbright Scholarship which enabled her to continue her studies in Milan with Giorgina del Vigo. Although she does not over-look the traditional

repertoire, she is more renowned for her vocal and interpretive qualities in contemporary music. These have inspired the creation of more than a score of compositions by such composers as Maderna, Pousseur, Haubenstock-Ramati and her husband, Luciano Berio, who was among the first to discover the potentialities of her vocal gifts. She has participated in festivals at Venice Darmstadt, Warsaw, Palermo, Vienna, Brussels, Tanglewood, Ojai and Stratford

Time: 3:00 - 5:00 p.m.; 7:00 - 10:00 p.m.

Place: Music Building.

Fee: Students—$35.00; Auditors—$20.00.

For application forms and further information write to:

Master Class in Contemporary Music,
Department of University Extension,
The University of British Columbia,
Vancouver 8, B.C.

SUMMER SCHOOL OF VISUAL ARTS

June 29 to August 14

Three levels of achievement, from the beginner to the professional artis will be served by the Pottery and Painting Classes, and by the complementar lecture series.

Master Class in Pottery: Miss Kyllikki Salmenhaara. The Summer School o the Arts is proud to present this distinguished Finnish potter and designer a the director of a three-week "Master Class in Pottery." Miss Salmenhaar worked in the Art Department of the Arabia Pottery, Helsinki, until 1961 at that time she was invited to direct the Ceramic Training Institute, Taipe Taiwan. Early in 1963 she returned to Finland as head of the Ceramic Depar ment, School of Industrial Art and Crafts, Helsinki, As a creative artist, sh has been awarded prizes at exhibitions throughout Europe and the Unite States.

June 29 to July 17

Monday through Friday.

2:00 - 4:30 p.m.; 7:30 - 10:00 p.m.

Ceramics Studio, Acadia Camp.

Fee: $50.00.

Registration for this class is limited to twelve. All applicants must fill o the special jurying form prior to May 1. For further information and applic tion forms write to:

Master Class in Pottery,
Department of University Extension,
The University of British Columbia,
Vancouver 8, B.C.

Pottery for Beginners: Miss Hilda Ross. A graduate of the Winnipeg Scho of Art, the B.C. College of Art, and a scholarship student at the Chicago A Institute, Miss Ross has received awards at the Exhibition of B.C. Potters, t Guild Exhibition, Canadian Ceramics, and in the spring of 1962 she receiv the Gold Medal at the Third International Ceramics Exhibition in Prag Czechoslovakia. For the past two years she has been Staff Ceramicist for t Department of University Extension.

July 20 to August 14

This four-week course is designed specifically for the beginner and will devoted to the fundamentals of the potter's art, with emphasis on the throwi and low temperature firing of earthenware.

Monday through Friday.

Afternoon Class: 2:00 - 4:30 p.m.; Evening Class: 7:30 - 10:00 p.m.

Ceramics Studio, Acadia Camp.

Fee: (for each class) $40.00.

Registration is limited to twelve in both classes.

A limited number of enrollments combining both classes may be available. The fee for this combined course is $75.00.

Summer Session Association Fee: $2.00.

Painting Classes: Herbert Siebner. In the ten years since this exciting painter came to Canada and settled in Victoria, he has achieved a wide reputation as a teacher and as a creative artist. His works have been honoured in exhibitions across Canada, the United States and, in 1963, in West Berlin, where he was a guest of honour at the Academy of Arts. During 1962/3 he toured Europe on a study grant from The Canada Council. Three years ago he served as travelling painting instructor for the U.B.C. Department of Extension, and has also taught at the Victoria Art Gallery. During the past season Mr. Siebner was visiting professor at the University of Washington.

July 6 to August 7

Monday through Friday.

Morning Class: 10:00 - 12:00 a.m.; Afternoon Class: 2:00 - 4:00 p.m.

Room 204, Frederic Lasserre Building.

Fee: (for each class) $40.00.

Summer Session Association Fee: $2.00.

Applicants for the Painting courses are requested to submit evidence of previous training, recommendations from previous instructors, and examples of their work, prior to May 1.

Acceptance of students to either class (registration limited to 20 in both), will be made in consultation with the Department of Fine Arts and Mr. Siebner.

FINE ARTS CONCERT AND LECTURE SERIES

During the first part of the Summer School, the campus will reflect much of the atmosphere generated in the community by the 1964 Vancouver International Festival of the Arts, which will run from July 1 to August 1.

The Frederic Wood Theatre and the Buchanan Quadrangle will provide congenial surroundings for a series of concerts, lecture-recitals and lectures covering a wide cross-section of music and the visual arts.

June 30 — Frederic Wood Theatre, 8:00 p.m.
Leonard Stein, pianist, and Cathy Berberian, mezzo-soprano.
"Lecture-recital on contemporary trends in music."
Tickets: $1.25 (Students 75c).

July 2 — Buchanan Quadrangle, 8:00 p.m.
Harvard Glee Club and Radcliffe Choral Society, Elliot Forbes, conductor.
Tickets: $2.50 (Students $1.00).

July 4 — Frederic Wood Theatre, 8:00 p.m.
CBC Broadcast-recital of contemporary chamber music featuring Cathy Berberian and Leonard Stein.
Free tickets for this concert only are available from: CBC, 701 Hornby Street, Vancouver 1, B.C.

July 9 — Frederic Wood Theatre, 8:00 p.m.
Denis Matthews, pianist.
Tickets: $2.50 (Students $1.00).

July 16 — Frederic Wood Theatre, 8:00 p.m.

Robert Sperry.

Lecture and Film on Japanese Pottery.

Tickets: $1.25 (Students 75c).

July 21, 22, 23 — Frederic Wood Theatre, 8:00 p.m.

Sam Hunter.

"Contemporary trends in American painting."

Series of three lectures: $3.00 (Students $2.00).

Single lectures: $1.25 (Students 75c).

These lectures by the distinguished American art historian and critic Sam Hunter, Brandeis University, will culminate in a two-day seminar on American painting to be held in International House, July 24, 25.

Mr. Hunter will be joined by several leading American and Canadian painters during these discussions. Details regarding this seminar will be available May 1 from:

Painting Seminar,
Department of University Extension,
The University of British Columbia,
Vancouver 8, B.C.

SUMMER SCHOOL ON PUBLIC AFFAIRS

Two major seminars on public affairs topics will be presented during Summer Session this year. In addition, a series of five Tuesday evening public affairs lectures will be open to the public.

A brochure with full details will be available April 10. Copies of this brochure may be obtained by writing the Director, Summer School on Public Affairs, Department of University Extension, U.B.C., Vancouver 8, B.C. (Telephone 224-1111, Local 886).

Seminar on Scandinavia, July 12 - 17

Continuing the policy of presenting annually a study of a distinctive country or area, the Summer School on Public Affairs will this summer focus attention on Scandinavia.

The high standard of living and the political and economic system of the Scandinavian countries is of interest to all Canadians. The unique ability of the Scandinavian peoples to combine strong respect for individualism with an international orientation has led to this area making significant contributions to world thought.

Scandinavian-Canadian cooperation for world peace, Scandinavian influence on world economics and the Scandinavian impact on contemporary culture will be among topics discussed in this seminar.

The seminar will commence with an open public meeting Sunday, July 12, 7:30 p.m., and will continue daily including Friday, July 17.

Seminar on Canada and Foreign Aid, July 26 - 31

This seminar is designed for persons interested in Canada's international role. Well documented factual information about Canada's foreign aid policies and programmes will be presented. Participants will hear, read and discuss facts and opinions which relate to the questions:

What is aid?

What is the world aid picture?

What is Canada's effort?

Is there a strategy of aid?

How is Canada organized to provide aid?

How could our aid programme be improved?

The seminar will open with a public meeting in the Frederic Wood Theatre Sunday, July 26, 7:30 p.m. and will continue daily including Friday, July 31.

Public Affairs Lecture Series

A series of five public affairs lectures designed to provide an opportunity for all interested persons to hear distinguished visitors to the University of British Columbia campus will be held on Tuesday evenings, July 7, 14, 23 and August 4, 16 in room 106 of the Buchanan Building at 8:00 p.m.

TEACHER-IN-SERVICE SHORT COURSES

The British Columbia Teachers' Federation, in co-operation with the Department of University Extension, will sponsor non-credit short courses for the eighth year. These will be practical courses of the workshop type and will mainly be intended as preparation for curriculum changes.

Registration will be limited to ensure the full participation of the course members. Lectures, demonstrations, and group discussions will be used. Most courses will be held on campus, Monday to Friday, for five hours each day. The fee will be $15.00 for a one-week course. Times, dates, locations and other information will be announced in *The B.C. Teacher* at a later date.

Present plans are for courses to be offered in the following:

Arithmetic (Mrs. Irene Richmond of W. J. Gage Limited, will be in charge)

Business Machines

English 9 Language

English Literature (Novel and Short Story)

French (Oral-Aural Approach)

Industrial Education

Mathematics 9 and 10

Physics

Primary Reading (Miss Barbara Sibbald of Copp Clark Company will be in charge)

Register with, and seek additional information from the

B.C. Teachers' Federation,
1815 West Seventh Avenue,
Vancouver 9, B.C.

PRE-SCHOOL EDUCATION PROGRAMME (NON-CREDIT) TEACHER-TRAINING AND KINDERGARTEN CENTRES

Arts and Crafts

July 6 - 17

For pre-school teachers concerning all phases of art activity at the pre-school level. The philosophy and developmental pattern of child art will be discussed. Workshops will be held in Painting, Clay, Crayons, Paper construction techniques, Puppets, Murals, 3-dimensional Construction, Print-making, Mosaics and other art activities.

Sessions: 9:00 a.m. to 12 noon Monday through Friday.

Fee: $12.00.

Music and Rhythms

July 6 - 17

A workshop course for pre-school teachers in the types of musical experiences in the nursery-kindergarten, including suitable songs, singing-games, records and rhythmic movement and instruments. There will be a discussion of the relationship of musical education to the objectives of pre-school education.

Text: Sheehy, "Children Discover Music and Dance" obtainable at the University Bookstore.

Sessions: 1.00 p.m. to 4:00 p.m., Monday through Friday.

Fee: $12.00.

These two courses in Art and Music have been approved by the Welfare Institutions Board as the equivalent of the two corresponding evening classes in the training series. Students may register for one, or both, as they desire.

Apply to: The Child Study Centre, Faculty of Education, The University of British Columbia, Vancouver 8, B.C.

Demonstration Course in Pre-school Education — Observation and participation in a pre-school centre.

Commences July 2. Child Study Centre, U.B.C.

Sessions: 8:30 a.m. to 3:00 p.m., Monday through Friday.

Fee: $35.00.

Since registration must be limited, applications should be received before June 1. Apply to: The Child Study Centre, Faculty of Education, The University of British Columbia, Vancouver 8, B.C.

This course provides instruction and demonstration in a Nursery-Kindergarten Centre. During morning sessions students will observe and participate in classes of four and five-year-old children. Afternoon sessions will be lecture-discussion periods, correlated with the morning observations.

Prerequisites: Correspondence courses, "Child Development and Pre-School Methods", offered through correspondence by the Department of University Extension, or Evening Class equivalents (Child Development and Methods).

This course is required by the Welfare Institutions Board of the B.C. Department of Social Welfare for all those who wish to become qualified to teach in nursery-kindergarten centres other than in the public schools.

Note: Persons with a B.C. Elementary Basic Certificate (or equivalent) who plan to teach kindergarten in the public school system, please refer to page 34 for Education 333, 336.

Children's Nursery-School and Kindergarten

July 6 - August 7, Child Study Centre, Acadia Road, U.B.C.

Demonstration nursery-kindergarten programmes will be conducted during the morning and children will be enrolled who are 4 or 5 years old by December 31, 1964.

Fee: $20.00.

Apply to: Child Study Centre, Faculty of Education, The University of British Columbia, Vancouver 8, B.C.

AN INTENSIVE COURSE IN SPOKEN FRENCH

Miss Claude Letourneur, Department of Romance Studies, U.B.C.

July 2 - August 14, 12:30 - 2:30 p.m., Room 112, Buchanan Bldg., U.B.C.

Fee: $66.00.

Class Limit, 22 Students.

After a number of years of experimentation and research the language institute at St. Cloud near Paris has developed a radically new method of rapidly acquiring complete fluency in foreign languages. This course makes extensive use of new audio-visual methods and is designed to enable a student with no previous knowledge or ability, to speak fluent French in three or four months of intensive study. It will be of equal value to those whose previous studies in French have been grammatical rather than oral. The class will be limited to 22 students and instruction will conform to the regular Summer School schedule of two hours of instruction, five days per week for

the period of the Summer Session. For convenience the course will be divided into two equal parts; the second part will begin in September. Part I given in Summer Session is complete in itself though only a limited proficiency will be attained at the end of it. Entry to Part II in September will be restricted to those who successfully have completed Part I.

This course will be of special value to Civil Servants, Airline personnel and Faculty members and others wishing to make themselves bilingual in their field. It will also form part of the proposed Interpreters' and Translators' Diploma Programme.

Seventh Annual

VANCOUVER INTERNATIONAL FESTIVAL OF THE ARTS

July 1 to August 1

The 1964 Vancouver International Festival, with its accent on French and French-Canadian Culture, will present a varied four-week programme of plays, concerts and recitals in the Queen Elizabeth Playhouse and Queen Elizabeth Theatre beginning July 1.

The distinguished French conductor, Charles Munch, will conduct two symphony concerts: July 1, with the Harvard Glee Club and Radcliffe Choral Society singing Poulenc's "Gloria". On July 3, the brilliant French pianist, Raymonde Trouard, will make his North American debut under Mr. Munch's direction.

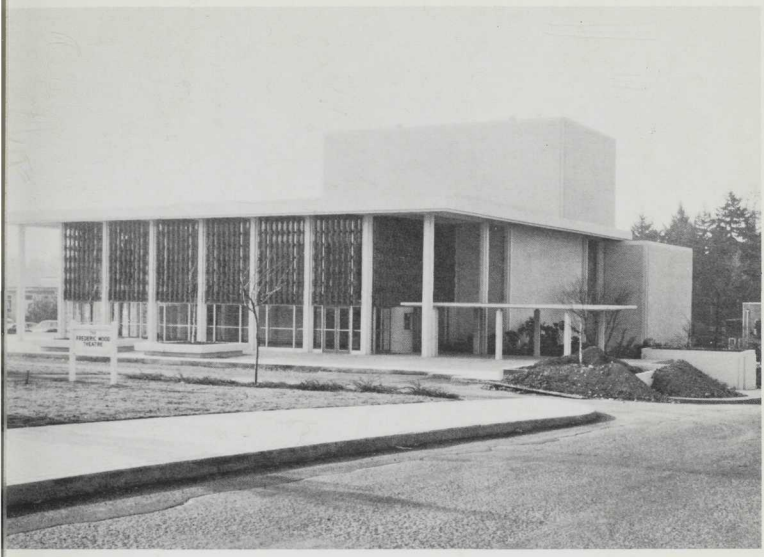
The genius of Leonard Bernstein will be displayed in a Festival production of his Broadway success, "West Side Story", which opens a week-long run in the Queen Elizabeth Theatre on July 11.

The major theatre production of this year's Festival will be Rostand's "Cyrano de Bergerac". The casts of this production and "West Side Story", and details of chamber music concerts will be announced later.

The 1964 Festival will conclude with a week's run in the Queen Elizabeth Theatre of the exciting Roland Petit Company, featuring Zizi Jeanmaire.

For detailed information, write or telephone:

Vancouver Festival Society,
Queen Elizabeth Theatre,
Vancouver 3, B.C.
Telephone: 683-3395.



new Frederic Wood Theatre.

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REGULATIONS AFFECTING REGISTRATION IN CREDIT COURSES

1. Last day for registration without late fee, May 25.
2. Last day for registration with late fee, June 14.
3. Late fee for registration after May 25, $20.00.
4. Students enrolled in regular Winter Session 1964-65 will be permitted to register to June 21 on payment of the late registration fee.

A REQUEST FOR A SUMMER SESSION CALENDAR DOES NOT CONSTITUTE APPLICATION FOR ADMISSION

NEW STUDENTS

Obtain from the Office of the Registrar an *Application for Admission* form and registration material and return together with the necessary documents, photographs and fees, *before May 25.*

FORMER STUDENTS

Obtain from the Office of the Registrar registration material and return it to this Office together with payment for fees before May 25. Students permitted to register late will be assessed the late registration fee.