SUMMER SESSION

UNIVERSITY OF BRITISH COLUMBIA

JULY 2 TO AUGUST 16, 1963

John Barfoot Macdonald.

As President of The University of British Columbia, I want to welcome you to our 44th Summer Session, and I express the hope that you will find the experience rewarding. As with most endeavors, the satisfactions you achieve will be proportional to the energy you expend. The purposes of the Summer Session are manifold and this "summer branch" of U.B.C. caters to the varying tastes of over 5,000 students. The common denominator, whatever the curriculum, must be the pursuit of excellence. The distinguished visiting lecturers enrich and widen the scope of the program offered by our own faculty. You will have the unique privilege of hearing many points of view expressed by outstanding scholars in many fields. High standards at this University are pursued as vigorously in the Summer Session as in the regular Winter Session so that in a very real sense you are returning to the self-discipline required of university students. I wish you well as you continue your studies.

PUBLICATIONS OF THE UNIVERSITY OF BRITISH COLUMBIA

Announcement of The Summer Session

SUPPLEMENT TO CALENDAR 1962-1963

Forty-fourth Session: JULY 2 to AUGUST 16, 1963

The University of British Columbia

VANCOUVER 8, CANADA

Vol. 48, GENERAL SERIES No. 3

SUMMER SESSION, 1963

DATES

MAY		
1	Wednesday	**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.**
31	Friday	**Last day for registration without late penalty. Last day for registration of new students.**
JUNE		
17	Monday	**Last day for registration of former students. (Late fee assessed after May 31.)**
JULY		
2	Tuesday	***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	Wednesday	**Summer Session Supplemental Examinations for 1962 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.*** **First of series of Library Instruction Lectures Bu.106 at 8:15, 10:25, 1:30. Series continues Thurs. and Fri. at same hours.**
11	Thursday	**General Meeting, Summer Session Association, Auditorium, 11:30 a.m. Lectures and laboratories cancelled, 11:25 a.m.**
AUGUST		
1	Thursday	**General Meeting, Summer Session Association, Buchanan 106, 11:30 a.m. Lectures and laboratories cancelled, 11:25 a.m.**
14	Wednesday	**Last day of lectures.**
15	Thursday	**Final Examinations. There will be three examination periods each day, the third commencing in the late afternoon.**
16	Friday	

*The last day for registration is June 17. Courses may, in some cases, be changed on July 2 but such changes must be reported by July 3 and students *must* be in attendance on July 3 in classes for which they are registered. Each subject or course change will, if permitted, be subject to an assessment of $5.00. A late registration fee of $20.00 will be assessed all students registering after May 31.

The schedule of student activities sponsored by the Summer Session Association is given on page 18.

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

Anthropology 415
Botany 105, Lecture
Chemistry 101, Lecture
Chemistry 205, Lecture
Commerce 90
Commerce 151, Lecture
Commerce 261
Commerce 391
Commerce 495
Economics 308
Education 200
Education 309, Section A
Education 331, Section A
Education 332, Section A
Education 333
Education 400, Section 1
Education 404, (H.Ec.), Section 1, Laboratory
Education 404, (English), 8:15-9:10
Education 404, (History), 9:15-10:10
Education 404, (French)
Education 405, Section 1
Education 407
Education 410
Education 415, Section A
Education 460
Education 491
Education 519
Education 521
Education 530
Education 533
Education 556, 8:15-9:10
Education 560, 9:15-10:10
Education 564
Education 580
English 100, Section A
English 200, Section A
English 300, Section A
English 301, Section A
English 400, Section A
English 412
English 430
Fine Arts 101
Fine Arts 300, Lecture
Fine Arts 301, Lecture
French 110
French 120
French 210
French 220
French 400

Course

Geography 101, Section 1, Lecture
Geography 101, Section 2, Laboratory
Geography 303, Section 1, Lecture
Geography 303, Section 2, Laboratory
Geography 408
German 110
German 120
German 303
History 212
History 326
History 419
Latin 110/120/210/220/303/531
Mathematics 110
Mathematics 120
Mathematics 202, Section 1
Mathematics 300
Mathematics 303
Mathematics 412
Music 120
Music 320
Philosophy 210
Philosophy 415
Physical Education 101, 9:15-10:10, (July 9-August 14)
Physical Education 210, 8:15-9:10 (July 25-August 14)
Physical Education 216, 9:15-10:10 (July 25-August 14)
Physical Education 242, 8:15-9:10 (July 2-July 23)
Physical Education 310, 8:15-9:10 (July 2-July 23)
Physical Education 350, 9:15-10:10 (July 2-July 23)
Physical Education 460, 9:15-10:10 (July 2-August 14)
Physics 101, Lecture
Physics 200, Lecture
Physics 400, Lecture
Political Science 300
Psychology 301
Psychology 400
Russian 100
Spanish 110
Spanish 120
Spanish 201
Zoology 105, Lecture
Zoology 303, Lecture

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

Botany 105, Laboratory
Chemistry 300, Lecture
Classical Studies 331
Classical Studies 433
Commerce 101
Commerce 151, Laboratory
Commerce 201
Commerce 252
Commerce 371
Economics 200
Education 301
Education 309, Section B

Course

Education 331, Section B
Education 332, Section B
Education 400, Section 2
Education 404 (Home Economics) Section 2, Laboratory
Education 404 (Geography), 10:25-11:20
Education 404 (Biology)
Education 405, Section 2
Education 411
Education 414
Education 415, Section B
Education 417
Education 419
Education 462
Education 490
Education 508 (Reading)
Education 508, (Geography & History)
Education 523
Education 536
Education 557
Education 558
Education 565, (Mathematics)
Education 565, (Physics), Lecture
Education 578
Education 580 (Problems in Education), 10:25-12:30
Education 581
Education 582
English 100, Section B
English 200, Section B
English 300, Section B
English 301, Section B
English 400, Section B
English 425
English 433
English 440
Fine Arts 128
Fine Arts 300, Laboratory
Fine Arts 301, Laboratory
French 223
Geography 101, Section 2, Lecture
Geography 101, Section 1, Laboratory
Geography 303, Section 2, Lecture
Geography 303, Section 1, Laboratory
Geography 307
Geology 200, Lecture

Course

German 90
German 200
German 401
History 102, Section 1
History 305
History 427
International Studies 300
Italian 100
Italian 200
Mathematics 202, Section 2
Mathematics 308
Mathematics 400
Music 101
Music 201
Music 302
Music 303
Philosophy 100
Physical Education 218, 10:25-11:20, (July 2-July 23)
Physical Education 220, 10:25-11:20, (July 25-August 14)
Physical Education 230, 12:30-1:25, (July 25-August 14)
Physical Education 244, 10:25-11:20, (July 2-July 23)
Physical Education 245, 10:25-11:20, (July 25-August 14)
Physical Education 250, 11:25-12:20, (July 2-July 23)
Physical Education 251, 11:25-12:20, (July 25-August 14)
Physical Education 260, 11:25-12:20, (July 2-August 14)
Physical Education 330, 12:30-1:25, (July 2-July 23)
Physical Education 360, 10:25-11:20, (July 2-August 14)
Physics 308, Lecture
Political Science 201
Psychology 308
Psychology 405
Russian 200
Russian 300
Russian 400
Sociology 421
Spanish 90
Theatre 320
Zoology 401

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

Anthropology 200
Asian Studies 330
Bacteriology 100, Lecture
Biology 105, Lecture
Biology 332
Botany 205, Lecture
Chemistry 101, Laboratory, continues to 4:30
Chemistry 205, Laboratory, continues to 4:30
Chemistry 300, Laboratory, continues to 4:30
Commerce 376
Economics 300
Education 305, Lecture
Education 307
Education 331, Section C
Education 336
Education 390
Education 404 (Guidance) 1:30-2:30
Education 404, (Home Economics), Lecture
Education 404, (Physical Education), 2:35-3:30
Education 416
Education 461

Course

Education 470
Education 535
Education 565, (Physics), Laboratory
English 100, Section C
English 200, Section C
English 300, Section C
English 400, Section C
English 406
English 410
English 434
Fine Arts 125
Fine Arts 401/402, Lecture
French 302
Geography 301, Lecture
Geography 404
Geology 200, Laboratory
German 223
History 102, Section 2
History 310
Home Economics 105
Home Economics 300
Linguistics 200
Mathematics 203
Mathematics 205

Course

Mathematics 310
Music 326
Music 401
Philosophy 340
Physical Education 104, 2:35-3:30, (July 25-August 14)
Physical Education 201, 1:30-2:25, (July 2-August 7)
Physical Education 213, 2:35-3:30, (July 2-July 23)
Physical Education 215, 2:35-3:30, (July 25-August 14)
Physical Education 361, 1:30-2:25, (July 2-August 14)
Physics 101, Laboratory
Physics 200, Laboratory
Physics 303, Laboratory
Psychology 100
Psychology 206
Sociology 200
Theatre 301
Zoology 105, Laboratory
Zoology 303, Laboratory
Zoology 401, Laboratory

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

Bacteriology 100, Laboratory
Biology 105, Laboratory
Biology 333
Botany 205, Laboratory
Education 305, Laboratory
Fine Arts 401/402, Laboratory
Geography 301, Laboratory
Physical Education 219, 3:45-4:45, (July 2-July 23)
Physical Education 241, 3:45-4:45, (July 25-August 14)

NOTES:

Industrial Arts

See page 24.

Examination Schedule

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

12:00 noon, Thursday, August 15—English 100, English 200, English 300.

3:30 p.m., Thursday, August 15—courses scheduled in lecture period 1:30-3:30 p.m., except sectioned classes.

8:30 a.m., Friday, August 16—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 16—reserved for examinations as needed to meet special requirements, including courses in which classes are sectioned.

Physical Education Activity Courses

The examinations for courses scheduled from July 2 to July 23 will be held on July 24.

The examinations for courses scheduled from July 25 to August 14 will be held on August 15 or 16.

The examinations for P.E. 101 and P.E. 201 will be held on August 15 or 16.

All classes meet initially in the War Memorial Gymnasium.

Art Laboratories

Students taking Fine Arts courses and Education 305 may have access to the Art Rooms during the day in addition to the Laboratory periods.

NEW 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, May 31 (June 17 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.

OFFICERS AND STAFF

JOHN B. MACDONALD, D.D.S., M.S., Ph.D., A.M.(Hon.), LL.D., F.A.C.D., President.

S. N. F. CHANT, O.B.E., M.A., Dean of the Faculty of Arts and Science (retiring June 30, 1963).

FREDERICK H. SOWARD, B.A., B.Litt., F.R.S.C., Dean of the Faculty of Graduate Studies.

WALTER H. GAGE, M.A., LL.D., Dean of Inter-Faculty and Student Affairs.

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MRS. HELEN McCRAE, B.A., M.S.W., Dean of Women.

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JOHN K. FRIESEN, D.F.C., B.A., M.A., Ed.D., Director, Department of University Extension.

JAMES RANZ, B.S., M.A.L.F., Ph.D., Librarian.

WILLIAM WHITE, C.G.A., Bursar, and Treasurer from July 1, 1963.

SUMMER SESSION OFFICERS

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W. J. HARTRICK, B.A., Ph.D., Associate Director.

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ANTHROPOLOGY

EDMUND S. CARPENTER, Ph.D., Professor, San Fernando Valley State College.

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ASIAN STUDIES

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Industrial Arts

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FINE ARTS

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MISS D. DALLAS, M.A., Docteur de l'Université de Paris, Professor.

ROBERT J. GREGG, B.A., Associate Professor.

MADAME M. Y. POLI, Agregee des Lettres, Berkeley, California.

GEOGRAPHY

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BURKE G. VANDERHILL, Ph.D., Associate Professor, Florida State University.

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ULRICH MACHE, M.A., Lecturer, Princeton, New Jersey.

JAMES A. McNEELY, M.A., Ph.D., Associate Professor.

MRS. PAULINE E. TAYLOR, M.A., Lecturer.

HISTORY

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H. BLAIR NEATBY, B.A., M.A., Ph.D., Assistant Professor.

A. N. MacDONALD, B.Sc., B.A., M.A., Ph.D., Instructor.

W. DAVID McINTYRE, B.A., M.A., Ph.D., Lecturer, University of Nottingham.

STANLEY R. MEALING, B.A., M.A., B.Litt., Associate Professor, Carleton University.

HOH-CHEUNG MUI, A.B., A.M., Ph.D., Associate Professor, Wilkes College, Wilkes-Barre, Pennsylvania.

L. F. S. UPTON, M.A., Ph.D., Associate Professor, St. John's College, University of Manitoba.

HOME ECONOMICS

Instructor to be announced.

INTERNATIONAL STUDIES

ARCHIBALD P. THORNTON, M.A., D.Phil., Professor, University of Toronto.

ITALIAN

MRS. STEFANIA CICCONE, M.A., Lecturer.

ROBERTO RUBERTO, M.A., Lecturer.

LATIN

B. HIJMANS, B.A., M.A., Ph.D., Assistant Professor, University of Manitoba.

LINGUISTICS

G. L. BURSILL-HALL, M.A., Ph.D., Associate Professor.

MATHEMATICS

Instructors to be announced.

MUSIC

ALLEN E. CLINGMAN, M.M., M.A., Ed.D., Assistant Professor.

D. EVAN DAVIS, B.A., M.Mus., D.Ed., Associate Professor.

R. FERRIN, B.M., M.M., Assistant Professor, School of Music, University of Washington.

DONALD C. GIBBARD, M.A., Associate Professor.

CORTLAND HULTBERG, M.S., M.M., Assistant Professor.

GODFREY RIDOUT, Lecturer, Faculty of Music, University of Toronto.

EARL TERRY, M.A., University of Western Ontario, London.

FRANK THOROLFSON, Mus.M., Assistant Professor, McMaster University.

CAMPBELL TROWSDALE, B.A., M.Ed., A.R.C.T., Assistant Professor of Education.

PHILOSOPHY

PATRICK T. MACKENZIE, B.A., M.A., Instructor, University of Saskatchewan.

WARREN MULLINS, M.A., Ph.D., Assistant Professor.

TERENCE M. PENELHUM, M.A., B.Phil., Associate Professor, University of Alberta.

AVRUM STROLL, M.A., Ph.D., Professor.

PHYSICAL EDUCATION

BERT BONANNO, M.A., Teacher, Pittsburg, California.

MISS JOAN ENGLISH, Diploma in Phys.Ed., Lecturer, Anstey College of Physical Education, Sutton Coldfield, Warwickshire, England.
ROBERT G. HINDMARCH, B.P.E., M.S., Ed.D., Assistant Professor.
J. JOHNSON, Senior Instructor.
ROBERT F. OSBORNE, B.A., B.Ed., Professor and Director of the School of Physical Education.
JACK B. POMFRET, B.A., Assistant Professor.
MISS BARBARA SCHRODT, B.P.E., M.S., Assistant Professor.
GRANT VINCENT, Lecturer.
H. D. WHITTLE, B.P.H.E., M.S., Ph.D., Professor.
IVOR WYNNE, B.A., M.S., Professor and Director of Physical Education, McMaster University.

PHYSICS

NORMAN BARTON, M.A., Assistant Professor.
R. E. BELL, B.A., M.A., Ph.D., Professor, McGill University.
A. GUTHRIE, B.A., M.S., Ph.D., Professor, Alameda State College, California.

POLITICAL SCIENCE

G. A. FEAVER, B.A., Ph.D., Instructor, Mount Holyoke College.
K. J. HOLSTI, M.A., Ph.D., Instructor.

PSYCHOLOGY

WILLIAM K. CAIRD, B.A., M.A., Ph.D., Assistant Professor.
DOUGLAS C. FRASER, B.Sc., M.A., M.Sc., Ph.D., Assistant Professor.
D. C. G. MacKAY, M.A., Ph.D., Associate Professor.
DONALD L. G. SAMPSON, M.A., Ph.D., Assistant Professor.
THOMAS STORM, B.A., M.Sc., Ph.D., Assistant Professor.

RUSSIAN

MRS. IRINA M. REID, M.A., L.R.S.M., A.R.T.C., Assistant Professor.
V. REVUTSKY, M.A., Diploma in Drama, Instructor.
C. G. SCHWENCKE, B.A., M.A., M.Hist., D.R.S., Lecturer.
J. B. WOODWARD, B.A., M.A., Instructor.

SOCIOLOGY

MRS. THELMA HERMAN McCORMACK, Ph.D., University of Toronto.
LIONEL TIGER, B.A., M.A., Ph.D., Western Washington State College.

SPANISH

K. I. KOBBERVIG, B.A., Ph.D., Assistant Professor.
FRANCISCO MARQUEZ, D.Phil., Assistant Professor.

THEATRE

JOHN BROCKINGTON, B.A., D.F.A., Assistant Professor.
MRS. FREDA de BRANSCOVILLE, F.T.C.L., A.T.C.M., Edmonton.
GEORGE R. KERNODLE, B.S., M.A., Ph.D., Professor, University of Arkansas.
MISS DOROTHY SOMERSET, A.B., Associate Professor.
MISS JANIE STEVENSON, L.R.A.M., L.G.S.M., A.L.A.M., Instructor.

ZOOLOGY

JOHN F. EISENBERG, B.Sc., M.A., Ph.D., Assistant Professor.
W. N. HOLMES, M.Sc., Ph.D., Assistant 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 Victoria College must have a transcript of record forwarded to the University Registrar by the Registrar of Victoria College.

2. Registration:

(a) Registration material will be sent upon request; registration booklets must be completed fully, including courses to be taken, 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 cheque to cover the total fee assessed; the cheque may not be post-dated later than June 1, 1963.

(c) **All registrants who have not completed registration by May 31 will be assessed the late registration fee of $20.00; no registration will be accepted after June 17.**

(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 May 31 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 May 31.

(d) Any student who applies for admission to the Summer Session *after June 17 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 unexcused absences from a course exceed one-eighth of its total number of meetings 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 on the second day of the following summer session. 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, November 1. The names of successful degree candidates will be released following the meeting of the University Senate on October 23.

FEES

All cheques must be certified and made payable to "The University of British Columbia". Cheques drawn on banks outside Greater Vancouver must include exchange.

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 May 31.

Registration will not be considered complete until fees are paid. Cheques may not be post-dated later than June 1, 1963.

Scale of Fees

Course fees, per unit	**$22.00**
Summer Session Association fee	**2.00**
Late registration fee	20.00
Each course change	5.00

For example:

(i)	**3 units: tuition $66; S.S.A. $2**	**Total $68.00**
(ii)	**4½ units: tuition $99; S.S.A. $2**	**Total $101.00**
(iii)	**6 units: tuition $132; S.S.A. $2**	**Total $134.00**

NOTE—No refund will be made for fees after July 26. 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 **$11.00**

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 **$7.50**

Applications for supplemental examinations, accompanied by the necessary fees, MUST be in the hands of the Registrar at least two weeks before the date set for the examination.

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 May 31.

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 pro-

portion 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

1963 Executive Committee

President - - - - - Frank McPhalen
Past President - - - - - John Heath
1st Vice-Pres. - - - - - Bill Lucey
Secretary - - - - - - A. A. Ferguson
Treasurer - - - - - - Howard Cross
Athletic - - - - - - - - Don Ross
Concert - - - - - - - - Eileen Johns
Dance - - - - - - Jeanie McKenzie
Resolutions - - - - - - Don Ritchie
Bulletin - - - - - - - - Hugh Brown
Advertising - - - - - - Gerry Staley
Shop Teachers' Rep. - - Stan Derkson
Exec. Secretary - - Isabelle Sanderson
Members-at-Large - Barbara Whipple, Bob Thompson, Lawrence Walker, Lynn Baldwin

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*
Swimming	Memorial Gym Pool	12:20-1:30 Tues & Thurs.
Diving	Memorial Gym Pool	12:20-1:30 Tues & Thurs.
Life Saving	Memorial Gym Pool	12:20-1:30 Mon. & Wed.
Tennis	Memorial Gym Courts (East)	12:20-1:30 Mondays.
Social Dancing	Memorial Gym (Upper Lobby)	12:20-1:30 Mondays.
Square Dancing	Women's Gym or Buchanan Patio (depending on weather)	8:00-10:00 p.m. Weds.
Golf	McInnes Field (behind Memorial Gym)	12:20-1:30 Tues. & Thurs.
S.S.A. Mixer	Brock Hall	Fridays, 9:30 p.m.-12:30 a.m.

Activities will commence the first week of Summer Session; instruction is provided.

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

Activity Card permits five free swims.

Pool open for Recreational Swimming, all week, 2:00-5:30 p.m.

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

Lunch Hour Choir—

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

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
July 1	July 2 Latin America Seminar International House 3:00 - 5:00 p.m. 7:30 - 9:30 p.m.	July 3 Latin America Seminar International House 3:00 - 5:00 p.m. 7:30 - 9:30 p.m.	July 4 Latin America Seminar International House 3:00 - 5:00 p.m. 7:30 - 9:30 p.m. Public Affairs Lecture Series Buchanan 106 8:00 p.m.	July 5 Latin America Seminar International House 3:00 - 5:00 p.m. SSA Mixer Brock Lounge 9:30 p.m.	July 6
July 8	July 9 Public Affairs Lecture Series Buchanan 106 8:00 p.m.	July 10 SSA Concert Auditorium 12:30 p.m. SSA Square Dance Buchanan Quad 8:00 p.m.	July 11 SSA General Meeting Auditorium 11:30 a.m. Fine Arts Lecture Series: Denis Matthews *Frederic Wood Theatre 8:00 p.m.	July 12 High School Band Concert Buchanan Quad 12:30 p.m. Fine Arts Lecture Series: Denis Matthews *Frederic Wood Theatre 8:00 p.m. SSA Mixer Brock Lounge 9:30 p.m.	July 13
July 15	July 16 Public Affairs Lecture Series Buchanan 106 8:00 p.m.	July 17 SSA Concert Auditorium 12:30 p.m. High School Band Concert Buchanan Quad 12:30 p.m. SSA Square Dance Buchanan Quad 8:00 p.m. Fine Arts Lecture Series: Peter Selz *Frederic Wood Theatre: 8:00 p.m.	July 18 Fine Arts Lecture Series: Peter Selz *Frederic Wood Theatre 8:00 p.m.	July 19 High School Band Concert Buchanan Quad 12:30 p.m. Fine Arts Lecture Series: Peter Selz *Frederic Wood Theatre 8:00 p.m. SSA Mixer Brock Hall 9:30 p.m.	July 20

July 22	July 23 High School Band Concert Buchanan Quad 12:30 p.m. Public Affairs Lecture Series Buchanan 106 8:00 p.m.	July 24 SSA Concert Auditorium 12:30 p.m. High School Band and Orchestra Workshop Final Concert Brock Lounge 3:30 p.m. SSA Square Dance Buchanan Quad 8:00 p.m.	July 25 Fine Arts Lecture Series: To be announced. *Frederic Wood Theatre 8:00 p.m.	July 26 Poetry Reading Robert Duncan Buchanan 106 8:00 p.m. SSA Mixer Brock Lounge 9:30 p.m.	July 27
July 29	July 30 Public Affairs Lecture Series Buchanan 106 8:00 p.m.	July 31 SSA Concert Auditorium 12:30 p.m. SSA Square Dance Buchanan Quad 8:00 p.m.	August 1 SSA General Meeting Buchanan 106 11:30 a.m.	August 2 Poetry Reading Allen Ginsberg Buchanan 106 8:00 p.m. SSA Mixer Brock Lounge 9:30 p.m.	August 3
August 5	August 6	August 7 SS of Opera Scenes *Frederic Wood Studio 12:30 p.m. SSA Square Dance Buchanan Quad 8:00 p.m.	August 8 SS of Opera Scenes *Frederic Wood Studio 8:00 p.m.	August 9 Poetry Reading: Denise Levertov Buchanan 106 8:00 p.m. SSA Mixer Brock Lounge 9:30 p.m. SS of Visual Arts Exhibition Room 205 Frederic Lasserre Building 10:00 a.m. - 10:00 p.m.	August 10 SS of Visual Arts Exhibition Room 205 Frederic Lasserre Building 10:00 a.m. - 10:00 p.m.
August 12 SS of Theatre Scenes *Frederic Wood Studio 8:00 p.m.	August 13 College of Education Art Exhibition 10:00 a.m. - 10:00 p.m. SS of Theatre Scenes *Frederic Wood Studio 2:30 p.m.	August 14 SS of Theatre Production *Frederic Wood Theatre 8:30 p.m.	August 15 SS of Theatre Production *Frederic Wood Theatre 8:30 p.m.	August 16 Poetry Reading Charles Olson Buchanan 106 8:00 p.m. SS of Theatre Production *Frederic Wood Theatre 8:30 p.m.	August 17

*Frederic Wood Theatre refers to the new building East of the Armoury.

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 and required to register their cars and to obtain appropriate parking permits.

Faculty and Staff will do so at the Traffic Office, situated at the rear of the Frederic Wood Studio on the south side of the extension of University Boulevard, beyond the West Mall.

Students must register their cars immediately upon arrival on Campus. They will register at the Kiosk provided for this purpose at the north end of "A" lot between July 2 and 6, 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 car registration.

Students Must Park in Designated Student Lots Throughout the Summer Session

Meter parking spaces will also be provided for short period parking.

Night Parking regulations come into force at 5:30 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 users of these lots will be charged a fee. All other designated parking areas will be available for use by the public free of charge.

THE UNIVERSITY BOOK STORE

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

During the summer session the book store is open Monday to Friday, from 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 stopovers 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 Wednesday, July 3. Lecture 2, at the same hours on Thursday, July 4, and Lecture 3 on Friday, July 5.

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

Lecture 2: Use of periodical indexes.

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 B.C.H.I.S. cover 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.

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

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 area.

SUMMER SESSION RATES

(a) *Regular Summer Session Courses* (July 2 to August 16 inclusive)

(i) Men's Accommodation:

Acadia & Fort Camp Dormitories (Huts)
Single Room $118.00
Double Room 109.50

Lower Mall Residences
Single Room $135.50
Double Room 127.00

(ii) Women's Accommodation:

Acadia Dorms (Huts) (Limited)
Single Room $118.00
Double Room 109.50

Lower Mall Residences
Single Room $140.00
Double Room 135.50

Fort Camp Residences
Single Room $135.50
Double Room 127.00

These rates cover room from Sunday night, June 30, to August 16, inclusive; and meals from breakfast, Monday, July 1 to breakfast, August 17 inclusive.

(b) *Non-Academic Courses & Workshops*

Short-Course students are offered accommodation as follows:

Men's Accommodation: (per month)

Acadia & Fort Dormitories
Single Room ..... $67.50 Double Room 62.50

Women's Accommodation: (per month)

Fort Camp Residences
Single Room ..... $77.50 Double Room 72.50

(c) *Married Accommodation*

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

(d) NOTE: Application for reservation is effective only if full Board and Residence payment reaches Accounting Department *by June 10th, 1963.* 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 Porter's Office before time required for use if regulations have 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 XIII), or the requirements of the Second Year in an Education programme.

College of Education students holding the E.C. certificates may qualify for the Interim E.B. by completing Second Year of their degree programme through Grade XIII or the University, or by completing the first year of a programme leading to a degree granted by the University. Grade XIII 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 College 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 College 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, College 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 College 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 yellow 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 15.

INDUSTRIAL ARTS
TIMETABLE FOR 1963 SUMMER SESSION

Courses:

Education	200	University Campus, Point Grey.
	301	University Campus, Point Grey.
	230	Mr. R. J. Leduc, 8 a.m. - 12, Van Tech School.
	230	Mr. R. F. Newcombe, 1 - 5, Van Tech School.
	353	Mr. R. Steele, 8 a.m. - 12, Van Tech School.
	353	Mr. A. Rogatnick, 1 - 5, Van Tech School.
	354	Mr. T. Held, 1 - 5, Van Tech School.
	450	Mr. G. Cockcroft, 1 - 5, Van Tech School.
	452	Mr. R. H. Morrice, 8 a.m. - 12, Van Tech School.
	453	Mr. K. Mitchell, 8 a.m. - 12, Van Tech School.
	454	Mr. W. Catherall, 8 a.m. - 12, Van Tech School.
	455	Mr. R. S. David, 1 - 5, Burnaby Voc. School.

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 1963 are expected to complete the second and third summers in 1964 and 1965.

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 ..... **3 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 400—Survey of Educational Thought ..... 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 400—Survey of Educational Thought ..... 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. Education 410 will be available in 1963 only for Home Economics graduates for whom it has been prescribed.

TEACHERS WITH ELEMENTARY BASIC CERTIFICATES TRAINING TO TEACH HOME ECONOMICS

Summer session courses available in 1963 for prospective teachers in Home Economics holding Elementary Basic certificates are:

Home Economics 105 ..... 3 units
Home Economics 300 ..... 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 Registrar of the University of British Columbia 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 1964 are as follows:

H.E. 102, 104, 201 and 310
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 College 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 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

ASIAN STUDIES

330. Asian Studies.

History of Japan. A survey of Japanese political, social and cultural history from the earliest times to the present day.

Pre-reading: Richard Storry, *A History of Modern Japan,* (Penguin Book).

Ten hours lectures a week—3 units.

Mr. Dore.

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. Carpenter.

415. Religion in Primitive Society.

Concepts of the supernatural and its relationship to man; the rituals of worship, magic and healing; the relationship of primitive religion to society, ethics, art and science.

Prerequisite: Anthropology 200 *or* Sociology 200.

Ten hours lectures a week—3 units.

Mr. Read.

BACTERIOLOGY

100. 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, which may be taken concurrently.

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

Text-books: 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.

Mrs. Gerwing.

BIOLOGY

105. Fundamentals of Biology.

The principles of biology with emphasis upon its relation to man. Characteristics of living things; life processes; plants and animals; heredity and evolution; environmental relationships.

Credit will not be given for both this course and Biology 100 (Grade 13).

Text-book: Villee, *Biology* (Saunders Co., Fourth Edition).

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

Mr. Beck.

332. Introduction to Genetics.

A course of lectures serving as an introduction to the principles, methods, and applications of genetics. Time will be devoted to some consideration of heredity in man.

Prerequisite: Botany 105 or Zoology 105.

Text-book: Singleton, *Elementary Genetics* (Van Nostrand).

Ten hours lectures a week—2 units.

Miss Cole.

333. Laboratory in Introductory Genetics.

Designed for students who wish laboratory work in the principles, methods and applications of genetics. Planned to supplement Biology 332 which must be taken either concurrently or previously.

Prerequisites: Botany 105 or Zoology 105.

Text-book: Gardiner, *Genetics Laboratory Exercises,* (Burgess Publishing Co.).

Eight hours laboratory a week—1 unit.

Miss Cole.

BOTANY

105. Introduction to Botany.

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

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

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

Mr. Lamoureux.

205. Morphology of Plants.

A survey of the plant kingdom with emphasis on comparative and evolutionary features.

Prerequisite: Botany 105.

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

Mr. Bandoni, Mr. Rouse.

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).

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

Mr. O'Brien.

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 Methematics 101 or 110 or 120.

Text-books: Heslop and Robinson, *Inorganic Chemistry.*

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

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

Mr. Lever.

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. Chapman.

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).

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

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

Mrs. McCallum.

433. Greece.

This course is a detailed study, in discussion of the Greek city-states, their political and cultural evolution, their decline, and their permanent contribution to western civilization. Historiography and historical method will be important objects of study. Emphasis in reading and discussion will be placed upon the ancient source-materials.

Prerequisites: Classical Studies 331 or permission.

Text-book: N. G. L. Hammond, *History of Greece to 323 B.C.* (Oxford).

Ten hours lectures a week—3 units.

Mr. Eliot.

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.

Text-book: 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.

Text-books: ***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.

An introductory course on fundamental bookkeeping procedure, preparation of financial statements and uses which may be made of accounting data in operating business enterprise.

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

Prerequisite: at least Second Year standing.

Text-books: Black and Champion, *Accounting in Business Decisions,* (Prentice-Hall 1961 ed.).

Ten hours lectures a week—3 units.

Mr. Blazouske.

201. Secretarial Practice.

The development of advanced typewriting, shorthand and transcription skills; the training of office workers. For credit only on B.Ed. (Sec.) and B.Com. (Teaching Option).

Pre-reading recommended: Review of Basic Course in Pitman Shorthand.

Prerequisites: Commerce 90, Commerce 101.

Text-books: *Shorthand, Dictation and Transcription.* (Pitman, Shorthand and Longhand editions). Students should also have copies of the *Basic Course in Pitman Shorthand* and the *Twentieth Century Typewriting Text* by Lessenberry.

Ten hours lectures and 5 hours laboratory a week.

Mrs. Cameron.

252. Management Accounting.

The basic concepts of management accounting and the use of accounting data in decision-making and in the management of an enterprise. The bases of interpreting financial statements emphasizing the impact of accounting postulates on interpretation.

Limited to 50 students.

Prerequisite: Commerce 151.

Text-book: to be announced.

Instructor to be announced.

261. Marketing, Physical Distribution and Foreign Trade.

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

Text-book: to be announced.

Ten hours lectures a week—3 units.

Instructor to be announced.

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.

Text-book: to be announced.

Prerequisites: Commerce 151, Economics 200.

Ten hours lectures a week—3 units.

Instructor to be announced.

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).

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

Ten hours lectures a week—3 units.

Mr. Heywood.

391. Office Management.

Office organization, planning and production problems, layout, equipment, work analysis and simplification, office services. Personnel management. Design and control of office forms. Office manuals. Budgetary control. Problems and cases.

Text-book: Neuner, John J. W., *Office Management,* (South-Western, W. J. Gage for Canada), Fourth edition.

Ten hours lectures a week—3 units.

Mr. Weeks.

495. Selected Topics in Quantitative Analysis.

The study of quantitative methods used in management decision-making and in the analysis of business problems. The topic selected for this session is Simulation Methods. Principles of the simulation (Monte Carlo) method will be developed, and the techniques applied to inventory control, materials handling, maintenance policy, and other service problems in which uncertainty is an essential factor. Problems of estimation errors and estimation efficiency will be considered. Other examples may be drawn from topics of particular interest to class members.

Prerequisites: Math 101 or 110 or 120, Math 205 or Economics 304.

Students planning to take Commerce 495 are strongly advised to take, prior to the course or concurrently, a ten-hour course in computer programming (FORTRAN) offered through the U.B.C. Computing Centre.

Text-books: Text and selected readings to be assigned.

Ten hours lectures a week—3 units.

Mr. Dobell.

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.

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

Ten hours lectures a week—3 units.

Mr. Bjork.

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.

Instructor to be announced.

308. Money and Banking.

Origins of money media; the functions of banks; measures of purchasing power; interest rate determination; problems of inflation; monetary management; foreign exchanges.

Prerequisite: Economics 200.

Text-books: Thomas, *Our Modern Banking & Monetary Systems,* (Third Edition); Sayers, *Modern Banking,* (Fifth Edition).

Ten hours lectures a week—3 units.

Mr. Scammell.

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 current Calendar.

The B.Ed. degree for graduates (see calendar, 1962-63, page 364, para 2) 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 I-XII.

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).

Text-book: Gaitskell, *Methods for Elementary School,* (Harcourt Brace, latest edition).

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

Mr. Tramel.

307. Music Education.

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

Limited to 30 students.

Prerequisite: Education 207 or Normal School Diploma.

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

Text-book: Nye and Bengethon, *Basic Music for Classroom Teachers.*

Ten hours lectures a week—3 units.

Mr. Gamble, Mr. Slind.

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 Normal School.

Text-books: Vessell and Harrington, *Common Native Animals,* (Chandler Publishing Co.); B.C. Provincial Museum Handbooks on *Mammals, Reptiles* and *Amphibians of B.C.;* Taylor, *Garden Flowers,* (Houghton Mifflin); Gamow, *Matter, Earth and Sky* (Prentice Hall, fourth printing, 1962); Hanson, *Animal Diversity* (Prentice Hall, 1961).

Reference books: Peterson, *Field Guide to Western Birds,* (Row-Peterson); Mayor, *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 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.

Ten hours lectures a week—3 units.

Miss Baxter, Mrs. Bredin, Mr. Dockrell, Mrs. Gallwey, Miss Goodman, Mr. Hale.

332. Psychology of Adolescence.

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

Limited to 30 students in each section.

Text-book: Garrison, *Psychology of Adolescence,* (Prentice-Hall, Fifth Edition).

Ten hours lectures a week—3 units.

Mr. Dale, Mr. Regal, 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 - 10:10 lecture period.

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

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

Ten hours lectures a week—3 units.

Mrs. Borden.

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 Baxter.

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.

Limited to 40 students.

Ten hours lectures a week—3 units.

Miss Cook.

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. Philosophy 100 desirable, but not required.

Ten hours lectures a week—3 units.

Mr. Ellis, Mr. Savery.

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.

Biology and General Science.

Text-book: Morholt, Brandwein, Joseph, *A Source for the Biological Sciences,* (Harcourt, Brace & World).

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

Mr. Anastasiou.

English.

Limited to 30 students.

Prerequisite: Three courses in English.

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

Five hours lectures a week—1½ units.

Text-book: D. Wolfe, *Creative Ways to Teach English, Grades 7 to 12,* (Odyssey Press, 1961 Edition).

Miss Cottingham.

French

Limited to students who have completed with satisfactory standing a reasonable proportion of the requirements for a French major. Some auditors will be admitted. A demonstration class in French 8 will be arranged for 4-5 of the 7 weeks.

Text-books: A reading list will be provided.

Ten hours lectures a week—3 units.

Miss Boyles.

Geography and Social Studies.

Limited to 30 students.

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).

Five hours lectures a week—1½ units.

Mr. Gunn

Guidance.

Limited to 25 students.

Text-book: Margaret E. Bennett, *Guidance in Groups.*

Five hours lectures a week—1½ units.

Miss Nastich.

History and Social Studies.

Limited to 30 students.

Prerequisite: History major or instructor's written consent.

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

Text-books: E. Lewis, *Teaching History in Secondary Schools,* (British Book Service, 1960 Edition); G. Gapsill, *The Teaching of Geography,* (Macmillan, 1956 edition).

Five hours lectures a week—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.

Text-book: to be announced.

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

Instructor to be announced.

Physical Education.

Curriculum and instruction in Physical and Health Education.

Prerequisite: 4th year standing or permission of instructor.

Text-book: Davis and Wallis, *Toward Better Teaching in Physical Education,* (Prentice-Hall, 1961 Edition).

Five hours lectures a week—1½ units.

Mr. Whittle.

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.

Text-book: Lambert, *Early Childhood Education,* (Allyn and Bacon).

Ten hours lectures a week—3 units.

Mrs. Vey, Miss Roxburgh.

407. Teaching the Mentally and Physically Handicapped.

An introductory course covering all groups of handicapped children — definitions, diagnosis, classification and types of provision. Detailed discussion of methods of helping handicapped children in the ordinary classroom and of the community resources available to help them.

Ten hours lectures a week—3 units.

Mr. McGann.

411. Guidance and Counselling Services in Schools.

A survey of the function and purpose of guidance, and some of the methods employed. A detailed 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.

Prerequisites: Education 301, 331 or 332.

Pre-reading: Wrena, *The Counsellor in a Changing World,* Crow and Crow, *Reading in Guidance,* (David McKay Company, Inc.).

Ten hours lectures a week—3 units.

Mr. Oldridge, Mr. Roemmich, Mr. Howes.

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.

Text-book: to be announced.

Ten hours lectures a week—3 units.

Enrolment restricted to 60 students.

Mr. Pollock.

415. Developmental Reading.

The problems of teaching reading, grades I-XII; 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.

Text-book: Russell, *Children Learn to Read,* (Ginn, Fourth Edition).

Prerequisite to Education 508 Research in Reading.

Ten hours lectures a week—3 units.

Mrs. Naslund, Mr. Westermark, Mrs. McCreary.

416. Speech Education for Teachers.

Characteristics and standards of good speech; self-evaluation; the physiology and mechanics of good voice production; means of preventing voice fatigue; guided practice aimed at increasing ability to speak effectively in a variety of speech situations. Students who have taken Education 206 should not take this course.

Limited to 25 students.

Text-book: Abernathy, *Fundamentals of Speech,* (Wm. C. Brown, 1959).

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.

Limited to 40 students.

Prerequisite: Education 407 recommended, not mandatory.

Ten hours lectures a week—3 units.

Mrs. Pringle.

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.

Limited to 25 students.

Pre-reading recommended: Van Riper and Butler, *Speech in the Elementary Classroom,* (Harper and Brothers, 1955); Eisenson and Ogilvie, *Speech Correction in the Schools,* (Macmillan, 1957).

Pre-reading required: At least one of recommended books should be read prior to course.

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

Ten hours lectures a week—3 units.

Miss Washington.

460. An Introduction to School Administration.

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

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

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

Ten hours lectures a week—3 units.

Mr. Smith.

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. Greenaway.

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.

Prerequisites: Education 415 or equivalent, and teaching experience.

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

Text-book: 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. Taylor.

490. The Library in The School.

Limited to 25 students.

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.

Text-books: No text book 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.

Limited to 20 students.

Text-book: Department of Education, *Library Manual for the Public Schools of B.C.,* (Queen's Printer, Victoria, 1955).

Ten hours lectures a week—3 units.

Mr. Lanning.

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

Three units will be given for each course in an individual subject. No more than 6 units may be credited towards a Master's degree. Each course reviews the philosophy, purpose and function of the subject in school. Studies are

made of recent research on curriculum organization, on particular methods of teaching, on the use of material aids, on factual comprehension and attitude testing.

Prerequisite: Education 204 or 404.

Instructor to be announced.

Art Education.

Prerequisites: Acceptance on the graduate programme.

Ten hours lectures a week—3 units.

Mr. Ozard.

History and Geography.

Prerequisite: Education 202 or 404, and an undergraduate major in either History or Geography.

Pre-reading recommended: Scarfe, *Handbook of suggestions on the Teaching of Geography;* Thralls, *The Teaching of Geography,* (Appleton-Century).

Pre-reading required: Wooldridge and East, *The Spirit and Purpose of Geography,* (Hutchinson); Hartshorne, *Perspective on the Nature of Geography,* (Rand McNally, 1959 Edition); Meyerhoff, *The Philosophy of History in Our Time,* (Anchor Books); or, Carr, *What is History?* (Macmillan).

Pre-reading recommended: Bruner, *The Process of Education,* (Harvard Press); Gopsill, *The Teaching of Geography,* or, Thralls, *The Teaching of Geography;* Assistant Masters' Association, *The Teaching of History* (Cambridge University Press), or Unstead, *Teaching History,* (A. and C. Black). The mark for the course will be based on oral and written reports presented in the seminars.)

Text-books: *Geography and History Teaching Materials, 1962,* (Instructors of Social Studies Advisory Committee, College of Education, U.B.C.). Available at U.B.C. Bookstore.

Ten hours lectures a week—3 units.

Mr. Hardwick, Mr. Owen.

Reading.

Prerequisite: Education 415.

Pre-reading: Review of text used in Ed. 415.

Text-books: Causey, Oscar S. (ed.), *The Reading Teacher's Reader,* (Ronald Press, N.Y.). Hunnicutt and Iverson, *Research in the Three R's,* (Harper).

Limited to 10 students.

Ten hours lectures a week—3 units.

Mr. Covell.

519. History of Canadian Education.

The historical growth of public education in Canada from the French regime to the present. The development both of our provincial public school systems and of Canadian educational thought and practice.

Text-books: G. E. Phillips, *The Development of Canadian Education,* (W. J. Gage).

Ten hours lectures a week—3 units.

Mr. Johnson.

521. Advanced Seminar in Philosophy of Education.

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

Prerequisite: Education 400.

Text-books: Burns and Brauner, *Philosophy of Education,* (Ronald Press, 1962). Brauner, *American Educational Theory,* (Prentice-Hall, 1963)—(To be published in May).

Ten hours lectures a week—3 units.

Mr. Brauner.

523. Comparative Education.

Philosophy, organization and methods of education in selected foreign countries compared with the Canadian system.

Limited to 40 students.

Prerequisites: Education 400, 404 or 410.

Text-books: J. F. Cramer and G. S. Browne, *Contemporary Education,* (Harcourt, Brace & Co., N.Y. 1956) (unless the 1963 edition is ready).

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.

Text-books: De Cecco, *Human Learning in the School,* (Holt, Rinehart, Winston, 1963); McDonald, *Educational Psychology* (Wadsworth).

Ten hours lectures a week—3 units.

Mr. De Cecco.

533. Psychology of Exceptional Children.

Physical, mental, social, and emotional characteristics of exceptional children (gifted, backward, crippled, hard-of-hearing, etc.).

Prerequisite: Education 407.

Pre-reading recommended: Stellar and Morgan, *Physiological Psychology* (McGraw Hill, 1950); Louttit, *Clinical Psychology of Exceptional Children,* (Harper, 1957); H. J. Baker, *Exceptional Children,* (Macmillan, 1959); Goodenough, *Exceptional Children* (Appleton-Century-Crofts, 1956); Cruickshank and Raus, *Cerebral Palsy,* (Syracuse University Press), Strauss and Kephart, *The Brain Injured Child,* (Vol. II, 1955, Grure and Stratton).

Text-books: Cruickshank, *Psychology of Exceptional Children and Youth,* (Prentice-Hall).

Ten hours lectures a week—3 units.

Miss David.

535. Evaluation.

Basic principles; tests and other instruments for measuring instruction.

Prerequisite: Education 301 or 435.

Pre-reading recommended: Thorndike and Hagen, *Measurement and Evaluation in Psychology and Education* (John Wiley and Sons, 1961).

Text-books: Cronbach, Lee J., *Essentials of Psychological Testing,* (Harper and Brothers, N.Y. Second Edition).

Ten hours lectures a week—3 units.

Miss Smith.

536. Individual Tests.

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

Limited to 15 students.

Prerequisites: Education 301 and Education 435.

Ten hours lectures a week—3 units.

Mr. Conant.

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 equivalent.

Five hours lectures a week—1½ units.

Mr. Abbott.

557. Administration and Supervision of the Elementary School.

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

Limited to 30 students.

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

Ten hours lectures a week—3 units.

Mr. Stibbs.

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).

Text-book: Campbell and Lipham, *Administrative Theory as a Guide to Action,* (Midwest Administration Centre, University of Chicago, 1960 Edition).

Ten hours lectures a week—3 units.

Mr. Toombs.

560. Theories and Principles of Education 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.

Text-books: to be announced.

Five hours lectures a week—1½ units.

Mr. Abbott.

564. Research Problems in Curriculum Organization.

Theories of curriculum organization and a review of recent research. The work of the curriculum director.

Prerequisite: Education 204 or 404.

Ten hours lectures a week—3 units.

Mr. Naslund.

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.

Mathematics.

Text-books: National Council of Teachers of Mathematics, *The Growth of Mathematical Ideas,* (National Council of Teachers of Mathematics, 24th Year

book). *The Learning of Mathematics,* (National Council of Teachers of Mathematics, 21st Year book).

Ten hours lectures a week—3 units.

Mr. Johnson.

Physics.

A lecture course with carefully integrated laboratory work, instructional film and discussion groups, designed to modernize physics teaching in the secondary schools.

Text-book: *Physics* edited by Physical Sciences Study Committee, published by Heath and Co. (handled in Canada by Copp-Clark), and the accompanying *Laboratory Guide* and *Teachers' Resource Book.*

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

Mr. Livesey.

NOTE: Each student registered for this course is required to have a set of P.S.S.C. equipment such as the Macalaster Evaluation assortment. Students should write to Mr. Livesey, Physics Department, if they have any difficulty in obtaining equipment.

578. Advanced Seminar in Theories of Guidance and Counselling.

This course is designed for those who are already counsellors. It deals with objectives; gathering and using information concerning students; counselling; articulation of different forms; contributions of teachers, principals, and specialists; analysis of typical guidance programmes. Review of recent thought and experiment on counselling.

Prerequisite: Education 411. Students are also advised to take Education 535, 537 and 552 prior to this course.

Limited to 25; preferably limited to school counsellors.

Pre-reading: Conant, *Slums and Suburbs,* (McGraw-Hill, 1961). Wrenn, *The Counselor in a Changing World,* APGA 1862. Friedenberg, *The Vanishing Adolescent.* Brown, *The Challenge of Man's Future.* Maslow, *Toward a Psychology of Being.*

Text-books: Leona Tyler, *The Work of the Counselor,* (Appleton, Century, Crofts), 1961 (2nd ed.). Farwell and Peters, *Guidance Readings for Counselors,* (Rand McNally), 1960.

Ten hours lectures a week—3 units.

Miss Nevison.

580. Problems in Education.

A. Investigation and report of a problem.

Registrations will not be accepted without the written consent of Dr. H. L. Stein, Director of Graduate Studies. Consult Dr. Stein before June 1.

B. Programmed Learning: developments and applications. Mr. Austwick.

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.

Text-book: Good and Scates, *Methods of Research,* (Appleton Century Crofts, Revised).

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

Five hours lectures a week—1½ units.

Mr. Jackson.

582. Educational Statistics I.

Frequency distribution; measures of central tendency; measures of variability; normal probability curve and its applications; sampling; reliability; correlation, its meaning and application; partial and multiple correlation.

Open to Master's degree candidates only.

Text-book: 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. Jackson.

INDUSTRIAL ARTS

230. Electricity in Industrial Arts.

A course designed to prepare the Industrial Arts teacher to teach Elementary Electricity in the Junior High School. It consists of two parts, namely Elementary Electricity Theory and Elementary Electrical Shopwork. The theory portion deals with circuits, magnetism, the D.C. motor and generator and elementary electronics. The shopwork portion deals with laboratory work in signal circuits magnets, electrochemical devices, 110V. wiring circuits, transformers, measurement of resistance and ignition systems.

Limited to twenty students.

Pre-reading recommended: Section on fundamentals in prescribed text.

Text-book: Eugene Lister, *Electric Circuits and Machines,* (McGraw-Hill, Latest Edition).

Prerequisite: Education 150.

Twenty hours laboratory a week—3 units.

Mr. Leduc, Mr. Newcombe.

353. Design in Industrial Arts.

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

Limited to 60 students.

Prerequisite: Education 150.

Twenty hours laboratory a week—3 units.

Mr. Rogatnik, Mr. Steele, Mr. Smith.

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.

Limited to 48 students.

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.

450. Technology of Woodworking II

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

Limited to 40 students.

Prerequisites: Education 150, Education 350.

Twenty hours laboratory a week—3 units.

Mr. Cockcroft.

452. Technology of Woodworking III

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

Limited to 40 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. Morrice.

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 40 students.

Prerequisites: Education 150, Education 351.

Twenty hours laboratory a week—3 units.

Mr. Mitchell.

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.

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 20 students.

Prerequisites: Education 150, Education 350, Education 450.

Twenty hours laboratory a week—3 units.

Mr. David.

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.

Text-books: Hemingway, *The Sun Also Rises;* Joyce, *A Portrait of the Artist as a Young Man.* (Cheap paperback editions). (Harry Holt & Co.); McClennen, Joshua, *Masters and Masterpieces of the Short Story,* (2nd series); Oscar Williams, *A Little Treasury of Modern Poetry,* (Revised, Scribners). Jean O'Casey, *Three Plays,* (St. Martin's Library, Macmillan and Co. Ltd.); Arthur Miller, *The Crucible,* (Bantam Books). G. S. Shaw, *Three Plays for Puritans,* (Penguin).

Pre-reading: *The Crucible, Caesar and Cleopatra, The Sun Also Rises* and *A Portrait of the Artist as a Young Man.*

Ten hours lectures a week—3 units.

Mr. Doheny and others.

200. Literature and Composition.

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

Text-books: *College Survey of English Literature,* (shorter ed., revised, Witherspoon); Shakespeare, *King Lear,* (ed. by Kittredge, Ginn and Co.); Swift, *Gulliver's Travels,* (Rinehart); Fielding, *Joseph Andrews,* (Riverside); Austen, *Pride and Prejudice,* (Riverside); Dickens, *Great Expectations,* (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. Cannon, Mr. de Bruyn, Mr. Jordan, Mr. Connaughty, Mrs. MacKenzie, Mr. MacRae, Mr. Marchant, Mr. Middlebrook, Miss Nemser, Mr. Warren, Mr. Watson.

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.)

Prerequisite: English 200.

Text-books: Nicholson, *Dictionary of American-English Usage,* (Signet Books, Paper Back); Paul Roberts, *Understanding English,* (Harper, Hard Back).

Ten hours lectures a week—3 units.

Mrs. Sonthoff, Mrs. Tedford, Mr. Bertram.

301. Children's Literature.

A critical and historical study of literature for children.

For credit only in the Faculty of Education.

Text-book: 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.

Mrs. Hambleton, Miss O'Connell, Mr. Poll.

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.

Text-book: Read, *English Prose Style,* (Beacon Press) (Reprint Paperback Edition).

Prerequisite: English 200.

Ten hours lectures a week—3 units.

Instructor to be announced.

406. English Poetry.

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

Prerequisite: English 200.

Text-book: Leonard Unger and William van O'Connor, Editors, *Poems for Study*, (Holt, Rinehart and Winston).

Ten hours lectures a week—3 units.

Mr. Newby.

410. Poetry Writing and Criticism.

Practice in the writing of verse forms and criticism of contemporary poetry, especially the lyric.

This summer only, the three-unit course will extend from July 24 to August 16 and will consist of morning lectures and afternoon workshop sessions. Both will be conducted by Robert Creeley, Allen Ginsberg and Charles Olson and contributed to by Margaret Avison, Robert Duncan and Denise Levertov. Enrolment is limited, is by permission, and students accepted may not register for any other course. Auditors by permission. Contact Robert Creeley, English Department. For a related non-credit evening course see the Extension Department.

Prerequisites: English 200 and English 202 or equivalent.

412. Shakespeare.

Lectures on various aspects of Shakespeare's art. Detailed study of *Richard III, As You Like It, Twelfth Night, Julius Caesar, Othello, Macbeth, Coriolanus, The Tempest.*

Text-book: *Shakespeare: The Complete Works*, Ed. G. B. Harrison, (Harcourt Brace). *The Taming of the Shrew, Richard II, All's Well That Ends Well* and *Timon of Athens.*

Prerequisites: English 200.

Pre-reading: *Richard III, As You Like It, The Taming of the Shrew, Richard II, Life in Shakespeare's England*, Ed. Wilson (Pelican) and *The Age of Shakespeare*, ed. Ford (Pelican).

Ten hours lectures a week—3 units.

Mr. Ingram.

425. Milton.

The work of Milton, with special emphasis on *Paradise Lost.*

Prerequisite: English 200.

Text-book: Milton's Works, (Odyssey Press).

Pre-reading recommended: *Paradise Lost, Sampson, Agonistes, Comus.*

Ten hours lectures a week—3 units.

Mr. Blissett.

429. American Literature since 1890.

A survey, with emphasis given to James, Twain, Dreiser, O'Neill, Hemmingway and Faulkner. For information on required pre-reading examination consult Instructor.

Pre-reading recommended: James, *The Portrait of a Lady;* Crane, *The Red Badge of Courage;* Dreiser, *Sister Carrie.*

Pre-reading required: An examination will be given during the first week on the novels in the above list by James, Crane, Dreiser.

Text-books: *Fifteen Modern American Poets*, ed. by G. P. Elliott (Rinehart, 1956), ed. Bradley, Beatty and Long, *The American Tradition in Literature*, (Shorter edition revised).

Mr. Vanderbilt.

Ten hours lectures a week—3 units.

Instructor to be announced.

430. The Romantic Period.

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

Prerequisite: English 200.

Pre-reading from the text-book: (a) required "Introductory Survey" and the selections from Wordsworth's *Prelude,* Coleridge's *Biographea Literaria,* Byron's *Childe Harold,* Shelley's *Alastor,* Keat's *Hyperion.* An examination will be given in the first week in this work. The mark will form part of the final grade. (b) recommended: The prefatory notes on Blake, Wordsworth, Coleridge, Byron, Shelley, Keats and Wordsworth's "Preface" to the *Lyrical Ballads,* the selection from Byron's *Don Juan,* Shelley's *Defence of Poetry* and *Prometheus Unbound* and Keat's *Endymion.*

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

Ten hours lectures a week—3 units.

Mr. Trueblood.

433. Modern Period.

The course is based primarily on the following: Hardy, Butler, Wilde, Shaw and Conrad, Untermeyer, Synge. The background of ideas and social forces, especially as revealed through the literature of the period 1870-1914, will receive close attention.

Prerequisite: English 200.

Pre-reading: Students are advised to read as many of the novels as they can.

Text-books: Untermeyer, *Modern British Poetry.* Novels: Hardy, *The Return of the Native* and *Jude the Obscure;* Butler, *The Way of All Flesh;* Conrad, *The Nigger of the Narcissus, The Heart of Darkness, The Secret Agent.* Plays: Wilde, *The Importance of Being Ernest;* Synge, *Riders to the Sea;* Shaw, *Man and Superman, Major Barbara, Saint Joan.* Other novels and plays will be announced.

Ten hours lectures a week—3 units.

Mr. Stockholder.

434. Contemporary Literature.

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

Prerequisite: English 200.

Pre-reading required: The three novels of Huxley, Lawrence and Joyce listed as texts.

Text-books: Thompson and Hicks, *Thought and Experience in English Prose,* (1956); Untermeyer, ed., *Modern American and British Poetry,* (Combined Edition, 1950); Huxley, *Point Counter Point;* Lawrence, *Women in Love;* Joyce, *Portrait of the Artist.*

Ten hours lectures a week—3 units.

Mr. Yeomans.

440. Chaucer.

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

Prerequisite: English 200.

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

Text-books: 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. Zimansky.

507. Studies in Criticism *(Classicism to Romanticism).

Discussion of the writings of Dryden, Pope, Johnson, Gray, Burns and Coleridge to illustrate the major eighteenth-century shift in sensibility; emphasis will be placed on the history of ideas in the period, and key terms such as *Nature, reason, sentiment, imagination* and the *sublime* will be investigated.

Limited to 12 students.

Prerequisite: Permission of the instructor. An essay must be submitted by May 15th, 1963.

Pre-reading: M. H. Abrams, *The Mirror and the Lamp; Romantic Theory and the Critical Tradition,* (Norton Paper-back, 1958); W. J. Bate, *From Classic to Romantic,* (Harper Text Books, 1961); S. H. Monte, *The Sublime; A Study of Critical Theory in Eighteenth-Century England,* (Ann Arbor Paper-back) 1960.

Text-books: ed. Bedford, McKillop, Whitney, *Eighteenth-Century Poetry and Prose,* (Ronald Press, New York), 2nd edition 1956. A. O. Lovejoy, *Essays in the History of Ideas,* (Capricorn Paperback, 1960).

Ten hours lectures a week—3 units.
Mr. Ross.

FINE ARTS

NOTE: *The following courses are for credit only in the Faculty of Education with the exception of Fine Arts 125 and 128, which are for credit in the Faculty of Arts and 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.

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

Ten hours lectures a week—3 units.
Mr. Ozard (Art), Mr. Churchley (Music).

125. History of Art (formerly 225).

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

Text-book: 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. Hart.

128. Design Fundamentals (formerly 228).

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.

With permission of Chairman of Art Education, this course may be undertaken by Education students in lieu of Fine Arts 305.

30 students per section (60 if there are 2 sections).

Prerequisite: Fine Arts 125 (formerly 225).

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.

Instructors to be announced.

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 U.B.C. Book Store.

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

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

Mrs. Gouldstone.

301. Drawing and Composition.

A basic course in drawing in various media. A study of the fundamentals of composition and picture analysis. 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 20 students majoring in Art.

Prerequisites: Fine Arts 101 and 300, completed with adequate standing. Sketch book required, obtainable at U.B.C. Book Store.

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

Mr. Healy.

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 Fine Arts 301 or 302.

For credit only in the Faculty of Education.

Limited to 10 students majoring in Art. As Fine Arts 401 and 402 are given by the same instructor or at the same time the maximum for the combined courses is 20 students.

Sketch book required, obtainable at U.B.C. Book Store.

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

Mr. Field.

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.

Prerequisites: Fine Arts 300 and Fine Arts 301 or 302.

For credit only in the Faculty of Education.

Limited to 10 students majoring in Art. (See course description of Fine Arts 401).

Sketch Book obtainable at U.B.C. Book Store.

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

Mr. Field.

FRENCH

110. First Year University French.

Study of French texts; grammar, pronunciation.

Prerequisites: French 20.

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

Text-books: Mondelli, *French Conversational Review Grammar,* American Book Company.

Ten hours lectures a week—3 units.

Instructor to be announced.

120. French Language and Literature, Part 1.

Prerequisites: French 92.

Text-books:

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

(2) *Voix Du Siecle,* Edition by Smith-Savacool, Harcourt, Brace and Company, New York, 1960.

(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. Gregg.

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. 1-61;* Sonet and Shortliffe, *Review of Standard French,* pp. 189-206.

Text-books: Sonet and Shortliffe, *Review of Standard French,* (Harcourt Brace); *Contes Modernes,* (Harper and Brothers, Revised Edition).

Ten hours lectures a week—3 units.

Madame Poli.

220. French Language and Literature, Part II.

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

Pre-reading required: Montaigne, *Essais,* Moliere, *L'Avan,* Voltaire, *Contes,* Musset, *On ne badine pas avec l'amour.*

Text-books: In Classiques Larousse editions: Montaigne, *Essais* (2 vols.), Ronsard, *Poésies Choisies* (2 vols.), Molière, *L'Avan,* Racine, *Andromaque,* Rousseau, *La Nouvelle Héloise* (2 vols.), Voltaire, *Contes* (2 vols.), Flaubert, *Trois Contes,* Musset, *On ne badine pas avec l'amour,* Malraux, *La Condition Humaine;* Camus, *La Peste* (Livre de Poche).

Ten hours lectures a week—3 units.

Miss Brearley.

223. Training in Speech and Writing.

Composition, discussion, *dictées,* stylistics, advanced translation, literary genres, aspects of French poetry. (Preparatory courses for Honours students; given in French.)

Prerequisite: Completion of French 210 or equivalent.

Text-book: Whitmarsh and Jukes, *Advanced French Course,* (Longmans).

Ten hours lectures a week—3 units.

Mr. Bird.

302. French Practice.

Composition; syntax; phonetics.

Prerequisite: 2nd class standing in French 220.

Text-book: W. Whitmarsh, *Cours Superieur,* (Longmans).

Ten hours lectures a week—3 units.

Miss Dallas.

400. The Romantic Movement in France.

A study of representative works from the Poetry, Theatre, and Novel of the first half of the 19th Century.

Prerequisite: Consent of the Department.

Pre-reading: *Lagarde et Michard—XIX Siecle—Les Grands Auteurs francais.* Bordas, 1961.

Text-books: to be announced.

Ten hours lectures a week—3 units.

Mr. Bowman.

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 course in the first or second year electives of either the B.A. or the B.Ed. programme.

(Two lecture sections.) Lab schedule to be arranged at first lecture.

Text-book: Strahler, *Physical Geography,* (Wiley, 1960 Edition).

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

Miss MacIver, section 1; Mr. Monkhouse, section 2.

301. Cartography.

Historical cartography, map projections, methods of showing relief, aerial photographs, distribution maps, statistical graphs and cartograms, sources of maps, and methods of land utilization survey.

Prerequisite: Geography 101.

Ten hours lectures and 4 hours laboratory a week—3 units.

Instructor to be announced.

303. World Geography.

The major geographic patterns of the world followed by a survey of the physical and human geography of each continent.

Limited to two sections of 125 each. (First 125 in each of the selected times, to a total of 250).

Available as an elective in the Faculty of Arts or Education. Not credited for a geography major in Arts.

Text-book: Wheeler, Kostbade, Thoman, *Regional Geography of the World,* (Holt, 1961).

Group discussion hours arranged at first meeting of class.

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

Mr. Vanderhill, section 1; Mr. Hardwick, section 2.

307. Political Geography.

Historical development of the present forms of world political organization; internal and external geographical features of significance to the survival and effective functioning of the state; sensitive frontiers and zones of conflict within states; regional blocs and spheres of influence.

Text-book: W. G. East & E. A. Moodie, *"The Changing World"*, (World Book Co., N.Y., 1956).

Ten hours lectures a week—3 units.

Mr. Rose.

404. (Slavonic Studies 404) Geography of the Soviet Union.

The distribution of population and its historical origins. The nature of the physical environment. The distribution of resources and economic activities. The major regions. Soviet power in the modern world.

Text-book: Atlas: *Oxford Regional Economic Atlas of the U.S.S.R. and Eastern Europe 1956.*

Prerequisite: Geography 101, or department's permission.

Ten hours lectures a week—3 units.

Mr. Hooson.

408. Geography of Europe.

Geography of Europe; physical and human character of the continent; economic, social and political geography.

Prerequisite: Geography 101, or department permission.

Text-book: G. W. Hoffman, *A Geography of Europe,* (Ronald Press, New York, Revised Edition 1961).

Ten hours lectures a week—3 units.

Mr. MacPherson.

GEOLOGY

200. 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 or 102 or Physics 101 or Zoology 105 or Botany 105, before or concurrently.

Text-books: 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. Danner.

GERMAN

90. Beginners' Course.

Cultural Graded Readers Alternate series IV—"Beethoven".

Text-books: Kirch and Moenkerneyer, *Functional German,* (American Book Co.); *Cultural Graded Readers:* Thomas Mann, Albert Schweitzer, Heine, (American Book Co.).

Ten hours lectures a week—3 units.

Mrs. Taylor.

110 and 120. First Year University German.

Text-books: 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. Krugel.

200. German Literature from 1870 to the Present.

Text-book: 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. McNeely.

223. Advanced Composition and Oral Practice.

Prerequisite: German 110, 120 or the equivalent. This course is not open to students fluent in German.

Text-book: J. Bitthell, *Advanced German Composition,* (Methuen & Co., 1959).

Ten hours lectures a week—3 units.

Mr. Mache.

303. Survey of German Literature to 1700.

Reading from selected texts.

Pre-reading: List available in departmental office.

Text-books: Burkhard, *Schriftwerke deutscher Sprache,* Vol. 1, (Sauerlander, Aarau); Hrsg. von Erik Lunding, *Andr. Gryphius/Zwei Trauerspiele* (Gyldendals Forlag/Kobenhavn/1938); Hans Jakob Christoffel von Grimmelshausen, *Der abenteurerliche Simplicissimus* (Reclam-Verlag Stuttgart), Deutsche Texte/ Hrsg. von Carl Roos/1.

Ten hours lectures a week—3 units.

Mr. Batts.

401. (3) Modern Drama and Poetry.

Pre-reading: List available from Department.

Text-books: ed.: H. Steinhauer, *Das Deutsche Drama,* (W. W. Norton, New York, 1937); B. Brecht ed., *Mutter Courage und imre Kinder* (Suhrkamp, 1960); H. E. Holtmussen - S. F. Kemp, *Ergriffenes Dasein,* (Langewiesche-Brandt, 1954).

Ten hours lectures a week—3 units.

Mr. Farquharson.

HISTORY

102. The History of Canada.

Introductory general course. History 102 is a prerequisite for major in Canadian History. Extra work will be required from Third and Fourth Year students taking this course.

Text-book: McInnis, *Canada,* (Rinehart and Co., 1959 Edition); or Brebner, *Canada,* (University of Michigan Press).

Ten hours lectures a week—3 units.

Mr. Neatby, Mr. LaPierre.

212. History of the United States of America.

From colonial times to the middle of the Twentieth Century. History 212 is prerequisite to a major in American History.

Text-book: Faulkner, *American Political and Social History.* First Year students may take this course with permission from the instructor in charge.

Ten hours lectures a week—3 units.

Mr. Upton.

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.

Instructor to be announced.

310. British Imperial History.

An analysis of British Colonial and Imperial policy and ideas from the founding of the First British Empire to the present day. Readings to be assigned.

Ten hours lectures a week—3 units.

Mr. McIntyre.

326. British North America, 1783-1867.

The economic, social, and political development of the British colonies in North America from the disruption of the First British Empire to Confederation. Readings to be assigned.

Text-book: Brebner, *Canada,* (Michigan Series, University of Michigan Press —Paperback Edition).

Ten hours lectures a week—3 units.

Mr. Mealing.

419. Great Britain Since 1688.

Text-book: (K. B.) Smellie, *Great Britain Since 1688, A Modern History,* First Edition (Ambassador Books Ltd., Toronto).

Ten hours lectures a week—3 units.

Mr. Mui.

427. The United States since the Civil War.

A study of American political, economic, and social development. Text-book: Morison and Commager, *The Growth of the American Republic,* Vol. 2, (Oxford University Press).

Ten hours lectures a week—3 units.

Mr. MacDonald.

HOME ECONOMICS

105. Food Management I.

Food composition; processing methods. Application of scientific principles to food preparation with emphasis on work simplification and development of standards.

Limited to 30 students.

Prerequisite: H.E. 91 or equivalent.

Texts: Heseltine and Dow, *The New Basic Cookbook,* 1957; Justin, Rust and Vail, *Foods,* 1956.

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

Instructor to be announced.

300. Home Management I.

The house, selection and care of furnishings and equipment. Family expenditures and standards of living; budgeting of time and family funds.

Limited to 30 students.

Text-books: Nickell and Dorsey, *Management in Family Living,* 3rd ed.—1960; Ehrenkranz and Inman, *Equipment in the Home,* 1959.

Prerequisites: Physics 91 or 103, Economics 200.

Ten hours lectures a week—3 units.

Instructor to be announced.

INTERNATIONAL STUDIES

300. The Commonwealth and International Organization.

A survey of the evolution of the Commonwealth in the 20th Century and of the attitudes and contributions of independent Commonwealth countries to international security and international co-operation from 1919 to the present.

Text-book: Miller, *The Commonwealth and the World.*

Ten hours lectures a week—3 units.

Mr. Thornton.

ITALIAN

100. First Year Italian.

Grammar, reading, conversation.

Pre-reading: Fowler and Della Torre, *Andiamo in Italia,* (Harrap).

Text-books: Cioffari, *Beginning Italian Grammar,* (Heath); Goggio, *New Italian Reader for Beginners,* (Heath).

Ten hours lectures a week—3 units.

Mrs. Ciccone.

200. Second Year Italian.

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

Pre-reading required: *La Locandiera;* selections from *Penguin Book of Italian Verse.* List available from Dept. of Romance Studies.

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

Ten hours lectures a week—3 units.

Mr. Ruberto.

LATIN

110, 120, 210, 220, 303 or 531. Composite Course in Latin.

Intended primarily for students attending the Summer Session. A substantial amount of a Latin author will be read (in 1963 Ovid), 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 110, 120, 210, 220, 406 or 522 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 will not be admitted.

Prerequisite: Latin 90 or equivalent (at least second class).

Pre-reading for Latin 110: first five units of Ullman and Henry, *Second Latin Book.*

Text-books: Ovid, *Heroides and Amores,* translation G. Showerman (Harvard); *Metamorphoses,* ed. J. Chamonard, (Classiques Garnier), translation by R. Humphries (Indiana Univ. Press).

Ten hours lectures a week—3 units.

Mr. Hijmans.

LINGUISTICS

200. General Linguistics.

Introduction to structural linguistic analysis and description. Phonetics, phonology, morphology, grammar (syntax), meaning. Modern linguistic theories. The territory of linguistics.

Text-books: H. A. Gleason, *An Introduction to Descriptive Linguistics* and *Workbook in Descriptive Linguistics,* (Holt, Rinehart, Winston), Revised Edition, 1961.

Ten hours lectures a week—3 units.

Mr. Bursill-Hall.

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.

Prerequisite: Mathematics 91 (High School Programme).

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

Ten hours lectures a week—3 units.

Instructor to be announced.

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.

Instructor to be announced.

202. Calculus.

Introduction to differential and integral calculus, with applications.

Pre-reading: Students who did not complete Mathematics 101 or 110 or 120 at the University of British Columbia must have studied Chapter 1 and the first half of Chapter 3 of *Calculus* by A. E. Taylor (Prentice-Hall).

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

Prerequisite: Mathematics 101 or 110 or 120.

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

Instructor to be announced.

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.

Text-book: to be announced.

Ten hours lectures a week—3 units.

Mr. Rousseau.

205. Elementary Statistics.

Descriptive statistics, introduction to probability and sampling, correlation, index numbers, time series, simple analysis of variance.

Prerequisite: Mathematics 101, 110 or 120.

Text-book: Freund and Williams, *Modern Business Statistics,* (Prentice-Hall).

Ten hours lectures and 4 hours laboratory a week—3 units.

Instructor to be announced.

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.

Instructor to be announced.

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 College of Education.

Ten hours lectures a week—3 units.

Miss Kilgour.

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.

Instructor to be announced.

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.

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

Ten hours lectures a week—3 units.

Instructor to be announced.

400. Algebra I.

The theory of groups, rings, and fields.

Beginning June 24th, and is open primarily to Honours Students, or in Mathematics combined with another subject.

Prerequisites: Second class standing in each of Mathematics 320, 321 and 322 or consent of the Department.

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.

Text-book: to be announced.

Ten hours lectures a week—3 units.

Instructor to be announced.

MUSIC

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

101. Elementary Theory.

Fundamentals of musicianship.

For credit only in the Faculty of Education.

Prerequisite to all other courses in music education.

Text-book: to be announced.

Ten hours lectures a week—3 units.

Mr. Terry, Mr. Davis.

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.

Text-book: Cannon-Johnson-Waite, *The Art of Music,* (Thomas Y. Crowell, N.Y.), 1960 Edition.

Ten hours lectures a week—3 units.

Mr. Thorolfson.

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.

Text-book: Hindemith, *Elementary Training for Musicians,* (Associated Music Publishers, paper-back edition, or Schott and Son).

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

Mr. Hultberg.

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.

Pre-reading recommended: Flesch, *The Art of Violin Playing, Book I,* (Carl Fischer); Prescott-Chidester, *Getting Results with School Bands,* (Carl Fischer).

Prerequisite: Music 201 or equivalent.

Text-books: Kuhn, *Instrumental Music,* (Allyn and Bacon); Bornoff, *Finger Patterns,* (Violin), (Carl Fischer); Furness-King-Turner, *Empire Elementary Band Method* (Conductor), (Empire).

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

Mr. Clingman, Mr. Trowsdale.

303. Choral Music.

Principles and technics of choral music.

Prerequisite: Music 201 or equivalent.

For credit only in the Faculty of Education.

Text-book: Garretson, *Conducting Choral Music,* (Allyn and Bacon), (Most recent edition).

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. Ridout.

326. Music Appreciation.

Designed for senior students with no musical background.

Text-books: Copland, *What to Listen for in Music;* Baker, *Pocket Music Dictionary.*

Ten hours lectures a week—3 units.

Instructor to be announced.

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.

Text-book: Kent Wheeler Kennan, *The Technique of Orchestration* (Prentice-Hall, Inc., Englewood Cliffs, New Jersey, Seventh printing).

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

Mr. Ferrin.

PHILOSOPHY

100. Introduction to Philosophy.

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

Pre-reading recommended: Plato's *Republic* and *Euthyphro, Apology, Crito.*

Text-books: Plato, *Republic,* (tr. Cornford, Oxford University Press, paperback edition); Hume, *Selections; Euthyphro, Apology, Crito,* Plato, Liberal Arts paperback edition; Hendel, (Scribners), paperback edition.

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

Mr. Mullins.

210. Ancient Philosophy.

Western philosophic thought from Thales to St. Augustine, with principal stress on Plato and Aristotle.

Prerequisite: Philosophy 100 or equivalent.

Pre-reading recommended: to be announced.

Text-book: Kaufmann, *Philosophical Classics, Thales to St. Thomas,* (Prentice-Hall).

Ten hours lectures a week—3 units.

Mr. MacKenzie.

340. Philosophy of Religion.

An inquiry into the nature of religion. Topics to be discussed include the origin of religious belief, the relation between faith, revelation and knowledge; the problem of freedom of the will; the nature of evil; and proofs for the existence of God.

Pre-reading recommended: First four items in the Flew-MacIntyre volume.

Text-books: Antony Flew and Alasdaire MacIntyre (eds.); *New Essays in Philosophical Theology,* published by the SCM Press, London; St. Thomas Aquinas: *On the Truth of the Catholic Faith* (translation of the *Summa Contra Gentiles* by Pegis), published in the Image paperback series by Doubleday. Volume I ("God") only; Hume: *Dialogues on Natural Religion,* ed. Hendel, in the Hafner Library of Classics series.

Ten hours lectures a week—3 units.

Mr. Penelhum.

415. Contemporary Philosophy.

A brief introduction to the writings of Sartre and of recent analytic philosophers in England, and an examination of some problems which are common to existentialist and analytic philosophers.

Prerequisite: Philosophy 210 or 315 or 320 or instructor's permission.

Pre-reading recommended: Wittgenstein, *Tractatus Logico-Philosophicus.*

Text-books: Wittgenstein, *Philosophical Investigations* (Blackwell).

Ten hours lectures a week—3 units.

Mr. Stroll.

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.

General activities for children of elementary school age; introductory exercises, beginning tumbling and fundamental agility work.

One hour per day, July 9 - August 14, inclusive—1 unit.

Miss English.

104. Fundamentals of Movement.

One hour per day, July 25 - August 4, inclusive—½ unit.

Miss English.

201. Gymnastics I.

Fundamental exercises; tumbling; vaulting; introduction to class instruction.

Text-book: Laporte & Penner, *Tumbler's Manual,* (Prentice-Hall).

One hour per day, July 2 - August 7, inclusive—1 unit.

Mr. Whittle.

210. Basketball.

Fundamentals, basic drills, simple offensive tactics.

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

One hour per day, July 25 - August 14, inclusive—½ unit.

Mr. Pomfret.

213. Grass Hockey.

Fundamental skills and tactics, rules.

Text-books: *Know the Game — Hockey, Rules of the Game of Hockey,* (The instructor will make both of these texts available to the class).

Ten hours lectures a week, five laboratory hours per week—3 units.

Miss Schrodt.

215. Soccer and Speedball for Women.

Fundamental skills and tactics, rules.

Text-book: Division of Girls' & Women's Sports, *Soccer—Speedball Official Guide,* (American Association for Health, P.E. & Recreation, current edition).

Ten hours lectures a week, five laboratory hours per week—3 units.

Miss Schrodt.

216. Soccer.

Basic skills, rules, emphasis on playing.

One hour per day, July 25 - August 14, inclusive—½ unit.

Mr. Johnson.

218. Games, Contests and Relays.

Relay, group and recreational games and activities.

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

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

Ten hours lectures a week, five laboratory hours per week—3 units.

Miss Schrodt.

219. Volleyball.

Basic skills, rules, team tactics.

Pre-reading required: *Canadian Volleyball Annual and Rule Book, 1963.*

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 23, inclusive—½ unit.
Mr. Hindmarch.

220. Badminton.

Strokes, tactics, systems, rules.
One hour per day, July 25 - August 14, inclusive—½ unit.
Text-book: Friedrick and Rutledge, *Beginning Badminton,* (Wadsworth).
Mr. Hindmarch.

230. Swimming.

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

Text-book: *Notes for Instructors,* (Canadian Red Cross Society).
One hour per day, July 25 - August 14, inclusive—½ unit.
Mr. Pomfret.

241. Dance.

Elementary modern dance, history of dance, introduction to movement resources.
One hour per day, July 25 - August 14, inclusive—½ unit.
Miss English.

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 23, inclusive—½ unit.
Mr. Vincent.

244. Dance.

Folk Dance I.
One hour per day, July 2 - July 23, inclusive—½ unit.
Miss English.

245. Dance.

Folk Dance II.
One hour per day, July 25 - August 14, inclusive—½ unit.
Miss English.

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.*
Text-book: to be announced.
One hour per day, July 2 - July 23, inclusive—½ unit.
Mr. Bonanno.

251. Track and Field II.

Hurdles, pole vault, weight events, distance running.
Pre-reading recommended: Luke, *Coaching High School Track and Field.*
Text-book: to be announced.
One hour per day, July 25 - August 14, inclusive—½ unit.
Mr. Bonanno.

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.

Text-book: Oberteuffer, *Physical Education,* (Harper).

One hour per day, July 2 - August 14, inclusive—1½ units.

Mr. Wynne.

310. Advanced Basketball.

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

Prerequisite: Physical Education 210.

Text-book: to be announced.

One hour per day, July 2 - July 23, inclusive—1 unit.

Mr. Pomfret.

330. Swimming.

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

Prerequisite: Physical Education 230.

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

One hour per day, July 2 - July 23, inclusive—1 unit.

Mr. Pomfret.

350. Advanced Track and Field.

Organization and conduct of track and field meets; construction of tracks and facilities; rules; promotion.

Prerequisite: Physical Education 250 or 251.

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

Text-book: to be announced.

One hour per day, July 2 - July 23—1 unit.

Mr. Bonanno.

360. Principles of Physical Education.

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

Text-book: Van Dalen, Mitchell and Bennett, *A World History of Physical Education,* (Prentice-Hall, Inc., 1953).

One hour per day, July 2 - August 14, inclusive—1 unit.

Mr. Osborne.

361. Correctives.

Posture, first aid, safety education, athletic injuries.

Pre-reading required: *Athletic Training and Conditioning.*

Text-books: O. William Dayton, *Athletic Training and Conditioning,* (Ronald Press, First Edition); Rathbone, *Corrective Physical Education,* (W. B. Saunders Co., Sixth Edition).

One hour per day, July 2 - August 14, inclusive—1 unit.

Mr. Hindmarch.

460. Organization and Administration of Physical Education.

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

Prerequisite: P.E. 260 or 360.

Text-book: Voltner and Esslinger, *Organization and Administration of Physical Education,* (Appleton Century Crofts).

One hour per day, July 2 - August 14, inclusive—1 unit.

Mr. Wynne.

PHYSICS

Note: It is proposed to offer senior courses according to the following schedule: 1964—Physics 300 and 400; 1965—Physics 308.

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.*

Text-book: Miller, *College Physics,* (Harcourt Brace, latest edition).

Prerequisite: Mathematics 101 or 120 must precede or be taken concurrently.

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

Mr. Barton.

200. Intermediate Physics.

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

Prerequisites: Physics 101; Mathematics 202 (may be taken concurrently).

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

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

Mr. Guthrie.

308. Physical Optics.

Geometrical and physical optics; optical instruments, interference, diffraction, polarization, spectroscopy, and the interaction of light and matter.

Prerequisite: Physics 200.

Text-book: Ditchburn, *Light,* (Ryerson Press).

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

Mr. Bell.

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.

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

Ten hours lectures a week—3 units.

Instructor to be announced.

POLITICAL SCIENCE

201. British & American Government.

The constitutions, systems of government and political processes of the United Kingdom and the United States.

Prerequisite: First Year standing.

Text-books: Stout, *British Government,* (Oxford University Press); Young, *Essentials of American Government,* (Appleton - Century - Crofts, eighth edition); Rogow, *Government and Politics,* (Crowell).

Ten hours lectures a week—3 units.

Mr. Holsti.

300. History of Political Thought.

Evolution of political ideas and various basic concepts of government such as the theory of the state, natural law, divine right of kings, social contract, sovereignty, political obligation and consent.

Pre-reading required: Plato, *The Republic,* (Oxford ed.), paperback: Sir Ernest Barker (ed.); *Social Contract,* (Oxford 1960), paperback.

Pre-reading recommended: Hobbes, *Leviathan,* (Dent); Machiavelli, *The Prince and The Discourses,* (Modern Library), paperback.

Texts: G. H. Sabine, *A History of Political Theory,* and A. D. Lindsay, *The Modern Democratic State.*

Ten hours lectures a week—3 units.

Mr. Feaver.

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.

Text-book: to be announced.

Ten hours lectures a week—3 units.

Mr. Signori.

206. Dynamics of Behavior.

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

Prerequisite: Psychology 100 or equivalent.

Text-book: to be announced.

Ten hours lectures a week—3 units.

Mr. Storm.

301. Developmental Psychology.

Psychological development, prenatal through adolescence; determiners of psychological growth; motor, emotional, social, intellectual, language and personality development. Implications for the guidance of psychological development.

Prerequisites: Psychology 100 and 206.

Text-book: to be announced.

Ten hours lectures a week—3 units.

Instructor to be announced.

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.

400. Abnormal Psychology.

Understanding human nature by a study of abnormal behaviour and mental processes; field trips and case studies.

Prerequisites: Psychology 100 and 206 and 3 units of Third or Fourth year courses in Psychology. For Fourth Year and graduate students only.

Pre-reading required: Cameron N., *The Psychology of Behavior Disorders,* (Houghton Mifflin Co. 1947). Recommended: Selye H., *The Stress of Life,* (McGraw-Hill 1956).

Text-books: Louis P. Thorpe, Barney Katz and Robert T. Lewis, *The Psychology of Abnormal Behavior,* (Ronald Press, New York), Second Edition.

Ten hours lectures a week—3 units.

Mr. MacKay.

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.

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

Ten hours lectures a week—3 units.

Mr. Fraser.

RUSSIAN

100. Basic Russian.

First course in the Russian language.

Limited to 15 - 20 students.

Text-books: Lunt, *Fundamentals of Russian,* (Morton & Co.).

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

Mr. Schwencke.

200. Russian.

Second year course in Russian for non-science students. Translation from English to Russian and reading.

Limited to 30 students.

Prerequisite: Review of Russion 100 work (Lunt) for test on first day of lectures.

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

Text-book: Lunt, *Fundamentals of Russian,* (Morton & Co); Pargment, *Beginner's Russian Reader,* (Pitman, Second Edition).

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

Mr. Woodward.

300. Nineteenth and Twentieth Century Russian Literature.

Third year course in Russian Translation and Composition.

Limited to 20 students.

Prerequisite: Russian 200 or 203.

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

Pre-reading recommended: Chapters 5 or 6, 10, 11, 13, 14, 16, 17, 19, 22 i *The Russian People.*

Text-books: Lavrin (Editor), *Russian Poetry Reader (1),* (Blackwell) Tcheborariogg-Bill, *The Russian People,* (U. of Chicago Press); MacPherso & Wissotsky, *Passages for Russian Translation & Composition,* (Edward Arnol & Co.); to be announced.

Ten hours lectures a week—3 units.

Mrs. Reid.

400. Russian

The achievements of the Russian Literature with stress on the importa works of 20th century Russian writers.

Limited to 20 students.

Prerequisite: Russian 300.

Text-books: Struve, *The History of Soviet Russian Literature,* (Univ. of Oklahoma Press, 1950); Muchnic, *From Gorky to Pasternak,* (Random House, New York, 1961).

Pre-reading required: Mirsky, *History of Russian Literature,* (Knoff, 1955 Edition).

Pre-reading recommended: Serafimovich, *Iron Flood;* Gorky, *Foma Gordeev;* Blok, *The Twelve; Sholokhov, Sizent Don (Part I);* Leonov, *Skutarevski;* Tolstoy, *Peter The Great (Part I);* Erenburg, *The Thaw.*

Ten hours lectures a week—3 units.

Mr. Revutsky.

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 problems of national character) which together would constitute a broad description of a large-scale society.

Prerequisite: Second Year standing.

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

Mrs. McCormack.

421. Political Sociology.

The examination of sociological studies of voting, political movements, the internal government of voluntary organizations and the social context of political institutions.

Prerequisite: Sociology 200.

Ten hours lectures a week—3 units.

Mr. Tiger.

SPANISH

90. Beginners' Spanish.

Text-books: Rogers, *Spanish for the First Year,* (Macmillan); Kasten - Neale - Silva, *Lecturas Escogidas,* (Harper).

Ten hours lectures a week—3 units.

Mr. Kobbervig.

110/120. First Year University Spanish.

Grammar, composition, translation, conversation, reading.

Register for appropriate course.

Prerequisite: Spanish 110: Spanish 20 or P standing in Spanish 90; Spanish 120: Spanish 92 or class 1 or 2 standing in Spanish 90.

Pre-reading recommended: Kasten - Neale - Silva, *Lecturas Escogidas,* (Harper & Brothers).

Text-books: Da Silva and Lovett, *A Concept Approach to Spanish,* (Harper & Brothers, N.Y.); Laforet, *Nada,* (Oxford Univ. Press, N.Y.).

Ten hours lectures a week—3 units.

Mr. Marquez.

201. Second Year University Spanish.

Prerequisite: Spanish 110 or 120.

Pre-reading required: de Unamuno, *Dos Novelas Cortas,* (Ginn and Co.).

Text-books: Da Silva and Lovett, *A Concept Approach to Spanish,* (Harper & Brothers, N.Y.); Laforet, *Nada,* (Oxford Univ. Press, N.Y.)

Ten hours lectures a week—3 units.

Mr. Marquez.

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 Science and Education.

Limited to 32 students.

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

Pre-reading recommended: Funke and Booth, *Actors Talk About Acting* (Random House, 1961).

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

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

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

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

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

301. CHILDREN'S THEATRE

Miss Somerset, Mrs. de Branscoville, Mr. Brockington.

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

For credit only in the Faculty of Education.

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

Limited to 30 students.

Text-book: Slade, *An Introduction to Child Drama,* (University of Lond Press, 1958).

Ten hours lectures a week—3 units.

Miss Stevenson.

320. History of Modern Theatre.

A study of the development of Western theatre (England, France, Germa Russia, U.S.A., etc.) since 1700, with emphasis upon the twentieth centu The course deals with the various aspects of theatre (plays and drama theory, acting and directing, scenic design and theatre architecture) and th relations to the main social, philosophical and artistic movements of Mod Europe.

For credit in the Faculty of Arts and Science and Education.

Prerequisites: For Theatre majors: Theatre 120. As an elective course: prerequisites.

Pre-reading required: First twelve plays on reading list (list supplied u request).

Pre-reading recommended: Bentley, *The Playwright as Thinker,* (Merid Books, The Noonday Press).

Text-books: Gassner, *Masters of the Drama,* (Dover Publications, th revised edition).

Ten hours lectures a week—3 units.

Mr. Kernodle.

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.**

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

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

Mr. Eisenberg.

303. Vertebrate Physiology.

Introductory organ physiology. (Zoology majors and Honours students may substitute Biology 400 for this course but will not receive credit for both.)

Limited to 40 students.

Pre-requisite: First Year Chemistry.

Text-book: Guyton, *Textbook of Medical Physiology* (Saunders, second edition).

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

Mr. Holmes.

401. Animal Ecology.

Principles and methods of animal ecology.

Limited to 50 students.

Prerequisites: Zoology 105 or equivalent, preferably Zoology 202.

Text-books: Odum E., *Fundamentals of Ecology* (Saunders reprinted 1959).

Eight hours lectures and 12 hours laboratory a week—3 units.

Instructor to be announced.

SUMMER SESSION REGISTRATION — 1962

Credit Courses

MEN	WOMEN	TOTAL
2580	2521	5101

CORRESPONDENCE CREDIT COURSES

Students are reminded that the following correspondence courses are available: Economics 306, Education 412, English 200, English 300, English 429, English 431, French 210, History 212, Philosophy 100, Psychologoy 100, Psychology 301.

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

July 2 to August 16

During the past 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 1963 Summer School will include courses in Theatre, Music and the Visual Arts, with a Creative Writing Workshop being offered for the first time in several years. 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 summer programme will be enriched by many special features. The Summer School on Public Affairs will present a Seminar on Latin America and a current events lecture series. Among the offerings of the Summer School of the Arts will be a fine arts lecture series with the American art historian, Dr. Peter Selz, and the English pianist, Denis Matthews. We are indebted to the Arts Council of Great Britain and the Canadian Broadcasting Corporation for their co-operation in connection with the visit of Mr. Matthews.

Scholarships

Foundations, community and business organizations generously continue to support the Summer School of the Arts through bursaries and scholarships. These include the Leon and Thea Koerner Foundation, the Summer Session Association and many others. Students are advised to make application 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 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 21.

STAFF

Theatre

SYDNEY RISK, M.A., Director, Summer School of Theatre.
JOHN BROCKINGTON, D.F.A., Guest Director.
DOROTHY SOMERSET, A.B.
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.
NORMAN YOUNG, B.A.
JESSIE RICHARDSON.
HELEN GOODWIN.
ARISTIDES GAZETAS, M.F.A.
FRENCH TICKNER.

Music

HANS-KARL PILTZ, B.A., M.M., Director of High School Band and Orchestra Workshop.
SAMUEL DAVIS, B.A., M.M., Director of Concert Band.
DOUGLAS TALNEY, B.A., M.M., Director of Concert Orchestra.
FRENCH TICKNER, Director of Opera Workshop.
WINONA DENYES, Coach-Accompanist, Opera Workshop.
LYNN JARMAN, Coach-Accompanist, Opera Workshop.
WILMA DOHLER, Coach-Accompanist, Opera Workshop.
DR. JOHN CROWN, Director, Master Class in Piano.
DR. FRANK E. CHURCHLEY, Piano Workshop for Classroom Teachers.
DR. FRANK E. GAMBLE, Recorder Workshop for Classroom Teachers.

Visual Arts

BOYD ALLEN, Painting.
CECIL RICHARDS, Sculpture.
HILDA ROSS, Ceramics.
RODNEY MAXWELL-MUIR, Assistant to Miss Ross.

Lectures

DENISE MATTHEWS.
DR. PETER SELZ.

SUMMER SCHOOL OF THEATRE

July 2 to August 17

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

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.

JOHN BROCKINGTON, D.F.A. (Yale). Assistant Professor of Theatre. Since his return to the University in 1961 Mr. Brockington has been one of the busiest producers in Vancouver and he is rapidly earning for himself a reputation as one of Canada's outstanding young directors. In addition to teaching classes in acting he will direct the Summer School of Theatre major production.

DOROTHY SOMERSET, A.B. (Radcliffe). Founder, and until this year, Director of Summer School of Theatre. Distinguished producer, director and teacher, Miss Somerset has participated actively in the development of Canadian theatre.

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.

ARISTIDES GAZETAS, M.F.A. (Boston). Appointed this year 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.

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 College of Education at the University of British Columbia.

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.

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.

Ten hours a week.

Mr. Brockington, Mrs. de Branscoville, Miss Somerset.

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 this 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:

Technical students will confine themselves, morning and afternoon, to daily classes and practical work in ground plans, working drawings, scenery building and painting, lighting, and stage-management. They will be directly involved in the technical staging of the school productions.

Thirty hours a week, minimum.

Mr. Young, Mr. Gazetas.

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: 1 hour 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.

Study and Private Rehearsal: 1 hour daily, plus 2 additional hours 1 day per week.

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 to 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: 1 hour 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:

Tuesday, July 2, at 10:00 a.m. in the University Auditorium. (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), ACTING (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 (Section A), SPEECH (Section C), STUDY PERIOD (Section B).
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 Tuesday, July 2nd at 10:00 a.m. in the University Auditorium.

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 May 31.

See page 14 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 66).

Auditions and Interviews:

Auditions and interviews will be given by MR. SYDNEY RISK and MR. SAM PAYNE at times to coincide with the Drama Workshops which they will conduct in various regions of the province up to next May 31. In each region they will have a headquarters. In cases where it is impossible for applicants wishing an audition or interview to travel to these headquarters Mr. Risk and Mr. Payne will make every effort to arrange visits to other communities within that region.

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 U.B.C. Department of Music and the College of Education, will offer an extensive

music programme comprising an Opera Workshop, a High School Band and Orchestra Workshop, a Master Class in Piano, and short courses in piano and recorder designed for classroom teachers.

OPERA WORKSHOP

July 2 to August 9

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.

Director: French Tickner. **Drama Coach, Stage Make-up Instructor, Department of Drama, and Stage Director, Opera Theatre, University of Southern California, and Director of 1962 U.B.C. 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 for 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, Lynn Jarman.

Monday through Friday.

Time: 7:00-10:00 p.m.

Place: Music Building and Frederic Wood Studio.

Fee: $35.00

Summer Session Association Fee: $2.00.

Enrollment in this course is limited to 15.

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

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

HIGH SCHOOL BAND AND ORCHESTRA WORKSHOP

July 4 to July 24

Hans-Karl Piltz, B.A., M.M. — Director, Assistant Professor of Music, directs the University orchestra, chamber ensembles, and collegium musicum. Solo violinist and violist with leading American orchestras, Mr. Piltz has been teacher and conductor at various universities.

Samuel Davis, B.A., M.M. — Director, Concert Band.

Douglas Talney, B.A., M.M. — Director, Concert Orchestra.

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

An expansion of the Summer Music Camp of the previous five summers the High School Band and Orchestra Workshop will offer young instrumen talists an opportunity of working with highly skilled Band and Orchestr directors and with specialists in the areas of the student's particular instru mental interest.

In addition to a Concert Band and a Concert Orchestra of high technica calibre, training groups will be formed for those students who have no advanced technically as much as others.

The Concert Band and Concert Orchestra each will present two publi programmes on the U.B.C. campus during the Workshop session. Addition recitals of music by Brass, Woodwind, and String ensembles will also b 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,
University of British Columbia,
Vancouver 8, B.C.

Master Class in Piano

August 5 - August 16

A course designed to be of value and interest to both the performer and the teacher, with the lectures divided between the theoretical and the practical. The afternoon sessions will be devoted to a series of lectures under the general title, "A History of Style in Performance: Bach to the Present Day". The ideas presented in these lectures will receive practical development in performance during the evening sessions.

DIRECTOR: Dr. John Crown. This brilliant English-born pianist and teacher received his early training at the Hoch Conservatory in Frankfurt and later in Vienna with the famed virtuoso pupil of Liszt, Moritz Rosenthal. Since 1942 Dr. Crown has successfully combined a career as a concert artist with his position as head of the Department of Piano, University of Southern California. He will be remembered by many for his lecture-recital during the 1961 U.B.C. Festival of Contemporary Arts.

Time: 2:00 - 4:00 p.m., 7:30 - 10:00 p.m.

Place: Room 104, Music Building.

Fee: $35.00.

Summer Session Association Fee: $2.00.

For further information apply to:

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

Classroom Teachers Piano Workshop

July 8 - July 19

This course is designed to assist the classroom teacher with little or no previous piano training to use the keyboard as an effective audio-visual-tactile aid in the general music period. Sessions will include practical experience in providing accompaniments for folk-songs and other classroom pieces, teaching the fundamentals of music through the use of the piano, and providing music for rhythmic activities. Group techniques will be used utilizing several pianos supplied through the courtesy of the T. Eaton Co. Ltd.

Instructor: Dr. Frank E. Churchley, Associate Professor of Music and Education, University of Alberta, Calgary.

Place: Room 20, Hut O-16.

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

Fee: $7.50.

Classroom Teachers Recorder Workshop

July 22 - August 2

This course is designed to assist the classroom teacher to use the recorder-flute as an effective teaching aid in music classes for Grade IV 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 Dr. Frank E. Gamble, College of Education, U.B.C.

Instructor: Dr. Frank E. Gamble, Associate Professor, College of Education.

Place: Room 20, Hut O-16.

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

Fee: $7.50.

Minimum enrollment for these two workshops is twenty, with a maximum of twenty-five. Advance enrollment is urged.

For further information and advance enrollment for these two workshops only, apply to:

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

SUMMER SCHOOL OF VISUAL ARTS

July 8 to August 10

The classes in Painting and Sculpture are directed towards the advanced and intermediate student and artist. The Pottery course is designed to be of particular benefit to those who wish to teach this craft in their own community.

The Summer School of Visual Arts will be greatly enriched by a lecture series presented the third week of July by the eminent art historian, Dr. Peter Selz. Attendance at these lectures is included in the Painting, Sculpture and Pottery registration fees.

PAINTING: Boyd Allen, B.A., M.A. During the past decade this young American painter has earned recognition throughout North America for his outstanding achievements as a creative artist and teacher. His present position as Instructor, Department of Art, University of California, Berkeley, was preceded by studies in the United States and Europe. His visit to Vancouver will coincide with an exhibition of his work at the University Art Gallery.

SCULPTURE: Cecil Richards. This distinguished Canadian sculptor and teacher will be warmly remembered for his previous visits to the U.B.C. Summer School of the Arts. Mr. Richards studied at the Ontario College of Art and the Cranbrook Academy of Art, where he assisted Carl Milles and later became an instructor. Formerly a faculty member at the University of Texas, he is presently professor of art at the School of Art, University of Manitoba. He has exhibited widely throughout the continent and is represented in numerous public and private collections.

POTTERY: Hilda Ross. A graduate of the Winnipeg School of Art, the B.C. College of Art, and a scholarship student at the Chicago Art Institute, Miss Ross has received awards at the Exhibition of B.C. Potters, the Guild Exhibition, Canadian Ceramics, and in the spring of 1962 she received the Gold Medal at the Third International Ceramics Exhibition in Prague, Czechoslovakia. For the past season she has been Staff Ceramicist for the Department of University Extension. Miss Ross will be assisted by the well-known Vancouver teacher and potter, Rodney Maxwell-Muir.

ADVANCED PAINTING CLASS FOR SENIOR STUDENTS AND ARTISTS

July 8 - August 9.

Monday through Friday.

Time: 10:00 - 12:00 a.m.

Place: Room 204, Frederic Lasserre Building.

Fee: $40.00

Summer Session Association Fee: $2.00.

INTERMEDIATE PAINTING CLASS

July 8 - August 9.

Monday through Friday.

Time: 2:00 - 4:00 p.m.

Place: Room 204, Frederic Lasserre Building.

Fee: $40.00

Summer Session Association Fee: $2.00.

Instructor for both courses: Boyd Allen.

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

Allocation of students to the Advanced Class (registration limited to 15) and to the Intermediate Class (registration limited to 20) will be made in consultation with the U.B.C. Department of Fine Arts and Mr. Allen.

ADVANCED SCULPTURE CLASS

July 8 - August 9.

Monday through Friday.

Time: 10:00 - 12:00 a.m., 2:00 - 4:00 p.m.

Place: Sculpture Studio, Frederic Lasserre Building.

Fee: $50.00, including studio and model's fee.

Summer Session Association Fee: $2.00.

Instructor: Cecil Richards.

Since registration for this course is limited to 12, all applicants are requested to submit evidence of previous training, recommendations from instructors, and photographs of examples of their work prior to May 1.

Allocation of students to the Sculpture class will be made in consultation with the U.B.C. Department of Fine Arts and Mr. Richards.

POTTERY FOR BEGINNERS

July 15 - August 9.

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

Monday through Friday.

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

Place: Ceramics Studio, Acadia Camp.

Fee (for each class) : $35.00, including studio fee.

A limited number of enrollments combining both classes may be available. The fee for this combined course is $60.00.

Summer Session Association Fee: $2.00.

Instructor: Hilda Ross.

EXHIBITION OF STUDENT WORK

August 9 - August 10

An exhibition of work by students in the Painting, Sculpture and Pottery classes will be held August 9 and 10 from 10:00 a.m. to 10:00 p.m., in Room 205, Frederic Lasserre Building.

SCHOLARSHIPS AND BURSARIES

A limited number of scholarships and bursaries will be available. Applications for these must be made prior to May 1 to:

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

CREATIVE WRITING WORKSHOP

An Introduction to Contemporary Poetry

July 24 - August 16

Six leading North American poets: Margaret Avison (Toronto), Robert Creeley (Vancouver), Robert Duncan (San Francisco), Allen Ginsberg (presently, Calcutta), Denise Levertov (New York) and Charles Olson (Gloucester), will contribute readings, lectures, and participate in panel discussions. The course is designed to suggest possibilities and improve understanding in the area of contemporary poetry.

Eleven meetings: Monday, Wednesday, Friday, beginning Wednesday, July 24th.

Time: 8:00 - 10:00 p.m.

Place: Monday and Wednesday, Room 104, Frederic Lasserre Building; Friday, Room 106, Buchanan Building.

Fee: $12.00.

Summer Session Association Fee: $2.00.

Note: The four Friday meetings of this non-credit course will be devoted to readings by Robert Duncan, Allen Ginsberg, Denise Levertov and Charles Olson. These may be attended as a separate series for a fee of $5.00. Tickets will be available from Vancouver bookstores and from the Department of University Extension.

For further information and enrollment apply to:

Creative Writing Workshop,
Department of University Extension,
University of British Columbia,
Vancouver 8, B.C.

FINE ARTS LECTURE SERIES

During the month of July, the new Frederic Wood Theatre will provide congenial surroundings for a series of six evening lectures to be presented by internationally-known figures in the world of the arts including Denis Matthews and Peter Selz.

July 11, 12 — Denis Matthews: "Keyboard Writing: Bach to Bartok". The 200-year span covered by this pair of lecture-recitals reveals the English pianist's deep interest in the wider sphere of music. In addition to the world-wide acclaim he has earned as an interpreter of the music of Bach, Haydn, Mozart and Beethoven, Mr. Matthews has been honoured for his many broadcast talks and for the analytical notes he wrote for Arthur Schnabel's last London recitals.

July 17, 18, 19 — Peter Selz: "Art and the Human Environment". In these three lectures the distinguished American art historian and curator at New York's famed Museum of Modern Art, discusses the visual arts in relationship to society with particular reference to Giacometti, Dubuffet and Bacon.

July 25 — Speaker to be announced.

All lectures will be given in the new Frederic Wood Theatre, starting at 8:00 p.m.

Series Tickets: $6.00; Single Lecture: $1.25 (Students $3.00 and 75c) will be available after May 1 from:

Fine Arts Lecture Series,
Department of University Extension,
University of British Columbia,
Vancouver 8, B.C.

SUMMER SCHOOL ON PUBLIC AFFAIRS

This year the annual Summer School on Public Affairs will be expanded to include examination of local and national topics as well as the traditional international seminar. In each case, a week-long seminar will be devoted to the examination of the topic.

The first seminar, scheduled for the week beginning Monday, June 3, will be of primary interest to citizens in Vancouver and surrounding districts. During this seminar, the role of the citizen as an individual and as a member of citizens' groups and organizations will be examined vis-a-vis the professional city planner, manager, or other experts in the field of local administration. Specifically, such questions as "Are interested citizens overwhelmed by expertise?", "What democratic checks and balances are available to the citizen in our society of experts?" and "Can an ordinary citizen play a useful and helping role in local administration?" will form the basis of this first seminar. Seminar staff will be drawn from citizens' groups, professional planners and from the faculties of the University of British Columbia. A descriptive brochure outlining the topics and staff will be available by mid-March and interested citizens and groups are invited to write:

The Director,
Summer School on Public Affairs,
Department of University Extension,
University of British Columbia,
Vancouver 8, B.C.

Taxation

Taxation and the prospects of future economic growth of Canada will form the basis of the Seminar devoted to a national topic. Of interest to the business and community as well as individual citizens, the Seminar will examine such aspects as the formulation of taxation policies, the scope of the Combines Investigations Act and the prospects of economic growth in Canada in the decade of the sixties.

The Seminar will be held on campus at the University of British Columbia from Monday, June 17 to June 21. Sessions will be conducted from 3 - 5 p.m. and from 7:30 - 9:30 p.m. each day in order that Seminar participants will be able to take full advantage of the programme.

A descriptive brochure will be issued outlining the topics, seminar staff, details regarding location of the seminar and information regarding registration fees. Interested persons who have not received this brochure by mid-April can obtain further information by writing the Director of Summer School on Public Affairs, Department of University Extension, Vancouver 8, B.C. Telephone CA 4-1111, local 715.

Latin America

Sir Oliver Franks, in his congregation address to the 1961 Graduates of U.B.C., stated, "The North-South problem is the new problem and the new problem is the right relationship between the industrial countries to the North and the developing peoples to the South". To the South of Canada lies the vast continent of Latin America about which Canadians know little. The Summer School on Public Affairs has chosen the topic of Latin America as the theme for the international Seminar during which time such topics as culture, economic problems and potentialities, and the relationship between Canada and the Latin American states will be explored. This seminar has been designed to give Canadians a survey of the history and geography of Latin America and will be of particular interest to businessmen contemplating markets in Latin America.

The seminar will be presented from July 2 - 5, 3 - 5 p.m. and 7:30 - 9:30 p.m. A descriptive brochure will be issued in mid-May and those contemplating attending the seminar are encouraged to make early registration.

Public Affairs Lecture Series Centre

During the months of June and July, there will be six Public Affairs Evening Lectures given in Room 106, Buchanan Building, U.B.C. The first three will be given by contributors to the seminars described above and the remaining three will deal with topics of a more general nature.

These lectures are open to the public with tickets for individual lectures, or series tickets at a reduced rate, available at the door.

Detailed information will be available in a special brochure March 31. Those wishing to be placed on this mailing list, please write or telephone to the Director, Summer School on Public Affairs, Department of University Extension, Vancouver 8, B.C. Telephone CA 4-1111, local 715.

TEACHER IN-SERVICE SHORT COURSES

The British Columbia Teachers' Federation, in co-operation with the Department of University Extension, will sponsor Summer Workshop Courses for the seventh year.

These will be practical non-credit courses related to new developments and curriculum changes. Additional information may be obtained from the B.C. Teachers' Federation.

Registration will be limited to ensure the full participation of the course members. Lectures, demonstrations, and group discussions will be used.

Register with the B.C. Teachers' Federation,
1815 West 7th Avenue,
Vancouver 9, B.C.

The fee will be $25.00 for a two-week course and $15.00 for a one-week course.

Each course will be held on campus, Monday to Friday, for five hours each day during July. Times, dates and locations will be announced at a later date.

PRE-SCHOOL EDUCATION PROGRAMME
TEACHER-TRAINING AND KINDERGARTEN CENTRES

DEMONSTRATION COURSE IN PRE-SCHOOL EDUCATION—**Observation and participation in a pre-school centre.**

July 3-26.

Monday to Friday, 9:00 a.m. to 3:00 p.m. Hut 89, Acadia Extension Centre.

Fee: $35.00. Since registration must be limited, applications should be received before June 1. Apply to Pre-School Education Summer Programme, Department of Extension, U.B.C., Vancouver 8, B.C.

This course is designed to provide instruction, demonstration and observation in pre-school education. During morning sessions students will observe [and practice] in classes of four and five-year-old children. Afternoon sessions will be lecture-discussion periods, correlated with the morning observations.

Prerequisite: Correspondence course, "Child Development and Pre-school Education", offered by the Department of University Extension *or* Evening class equivalents (Psychology I 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 33 for Education 333, 336, etc.

SCIENCE AND SOCIAL STUDIES FOR PRE-SCHOOL CHILDREN

The nature of the pre-school child in relation to his physical-social environment. This two-week course will be especially valuable for teachers who wish to learn how to explore the child's universe with him, to help bring about understanding, skills and positive attitudes, leading to further growth in these two areas.

Sessions: 9:00 a.m. to 12 noon, Monday, July 29 to August 9. Hut 89, Acadia Extension Centre.

Fee: $12.00.

LANGUAGE AND LITERATURE FOR PRE-SCHOOL CHILDREN

Experiences in the language arts for pre-school children. The two-week course will include the development of children's literature, the selection of suitable stories and verse (traditional, folk, modern, make-believe), library resources, story reading and story telling techniques, informal dramatization, speech development, ways of fostering good speech habits in young children, reading readiness.

Sessions: 1:00 p.m. to 4:00 p.m., Monday, July 29 to August 9. Hut 89, Acadia Extension Centre.

Fee: $12.00.

The two courses, Science and Social Studies and Language and Literature, have been approved by the Welfare Institutions Board as the equivalent of the two corresponding evening classes in the pre-school teachers' series. Students may register for one or both.

Apply to Pre-school Education Summer Programme, Department of University Extension, University of B.C., Vancouver 8, B.C.

CHILDREN'S NURSERY AND KINDERGARTEN

July 3-August 2.

Place: Child Study Centre, Acadia Road, Campus.

Demonstration nursery-kindergarten programmes will be conducted during the morning and will enrol children who are 4 or 5 years old by December 31, 1963.

Fee: $15.00.

Observation facilities are arranged for students in Education, Psychology, Home Economics, and Department of University Extension.

Apply to the Department of University Extension, Pre-School Education Programme, University of B.C., Vancouver 8, B.C.

Sixth Annual

VANCOUVER INTERNATIONAL FESTIVAL

May 29 - June 22

Opera, Operetta, Theatre, Symphony, Recitals, Chamber Music
Six major productions in the Queen Elizabeth Theatre and the Queen Elizabeth Playhouse.

For detailed information write or telephone:

Vancouver Festival Society,
Queen Elizabeth Theatre,
Vancouver 3, B.C.
Telephone: 683-3395

Notes

Notes

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REGULATIONS AFFECTING REGISTRATION IN CREDIT COURSES

1. Late fee of $20.00 assessed all registrants applying after Friday, May 31.
2. Last day for registration, new students: Friday, May 31.
3. Last day for registration, former students (including those currently enrolled for the Winter Session 1962-63): Monday, June 17.
4. (new regulation)
   A fee of $5.00 will be assessed each change of course made after May 31.

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 14.)

   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 May 31.* (See page 15.) 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 *May 31.* Students permitted to register late (between June 1 and June 17) will be assessed the late registration fee. No student will be registered after June 17.

UNIVERSITY OF BRITISH COLUMBIA
SUMMER SESSION