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NEW REGULATIONS AFFECTING SUMMER SESSION

1. Late registration fee: $20.00 (assessed after June 1).
2. Last day for registration, former students: June 25.
3. Last day for registration, new students: June 1.

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

NEW STUDENTS

1. Obtain from the Office of the Registrar an *Application for Admission* form and return it to this Office, together with the necessary documents and photograph, *before May 1.* (See page 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 June 1.* (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 *June 1.* Students permitted to register late (between June 2 and June 25) will be assessed the late registration fee.

SUMMER SESSION, 1962

DATES

MAY		
1	Tuesday	Class lists for courses in which enrolment is limited will be determined on this date; no assurance can be given that any registration will be accepted for such courses after this date. Students who have not previously attended the University must have made application and submitted all necessary documents by this date.
JUNE		
1	Friday	Last day for registration without late penalty. Last day for registration of new students.
25	Monday	Last day for registration of former students. (Late fee assessed after June 1.)
JULY		
3	Tuesday	*Last permissible day for changes in students' courses. Lectures begin at 8:15 a.m.
4	Wednesday	Summer Session Supplemental Examinations for 1961 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.*
10	Tuesday	First of series of Library Instruction Lectures Bu.106 at 8:15, 10:25, 1:30. Series continues Wed. and Thurs. at same hours.
12	Thursday	General Meeting, Summer Session Association, Auditorium, 11:30 a.m. Lectures and laboratories cancelled, 11:25 a.m.
AUGUST		
9	Thursday	General Meeting, Summer Session Association, Buchanan 106, 11:30 a.m. Lectures and laboratories cancelled, 11:25 a.m.
15	Wednesday	Last day of lectures.
16	Thursday	Final Examinations. There will be three examination periods each day, the third commencing in the late afternoon.
17	Friday	

*The last day for registration is June 25. Courses may, in some cases, be changed on July 3 but such changes must be reported by July 4 and students *must* be in attendance on July 4 in classes for which they are registered. A late registration fee of $20.00 will be assessed all students registering after June 1.

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

The University offices will be closed all day each Saturday during June, July and August.

Course

Education 333 and 336, Demonstration School
Education 400, Section 1
Education 404, Geography, 10:25-11:20
Education 404, History, 11:25-12:20
Education 404, Home Economics, Section 2, Practice School,
Education 405, Section B
Education 411
Education 414
Education 424
Education 462
Education 508, Geography
Education 523
Education 564
Education 565, Geography
Education 565, Physics, Lecture
Education 578
English 100, Section B
English 200, Section B
English 300, Section B
English 301, Section 2
English 413
English 429
English 434
English 535
Fine Arts 300, Laboratory
Fine Arts 302, Laboratory
Fine Arts 303/403, Lecture
Fine Arts 401/402, Laboratory
Fine Arts 425
French 210
French 220
French 401
Geography 101, Section 2, Lecture
Geography 101, Section 1, Laboratory
Geography 201, Lecture
Geography 303, Sections 1 and 2, Discussion groups
Geography 406
Geology 200, Lecture
German 90
German 200
German 300
History 101

Course

History 411
Home Economics 102/104, Lecture
Home Economics, 201/310, Lecture
Mathematics 120
Mathematics 202, Section 2
Mathematics 308
Mathematics 410
Mathematics 503
Music 101
Music 201
Music 303
Music 320
Music 401
Oceanography 400/401 (June 4-30), continuing
Philosophy 100
Philosophy 304
Physical Education 218, 10:25-11:20 (July 3-July 24)
Physical Education 230, 12:30-1:25 (July 26-August 15)
Physical Education 250, 11:25-12:20 (July 3-July 24)
Physical Education 251, 11:25-12:20 (July 26-August 15)
Physical Education 260, 11:25-12:20 (July 3-August 15)
Physical Education 262, 10:25-11:20 (July 3-August 15)
Physical Education 303, 10:25-11:20 (July 26-August 15)
Physical Education 330, 12:30-1:25 (July 3-July 24)
Physics 300, Lecture
Psychology 206
Psychology 403
Russian 200
Russian 300
Sociology 315
Spanish 90
Theatre 300, Section 2
Theatre 320
Zoology 105, Lecture
Zoology 202, Lecture
Zoology 416, Lecture

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

Bacteriology 100, Lecture
Biology 105, Lecture
Biology 332
Chemistry 101, Laboratory, continuous through 4:30
Chemistry 205, Laboratory, continuous through 4:30
Chemistry 300, Laboratory, continuous through 4:30
Chemistry 310, Laboratory, continuous through 4:30
Economics 200
Education 305, Laboratory
Education 307
Education 331, Section C
Education 336, Lecture
Education 390
Education 400, Section 2
Education 404, Commerce
Education 404, German
Education 404, Home Economics, Section 1, Lecture, Mon., Tues., Thurs.
Education 404, Home Economics, Section 2, Lecture, Wed., Fri.
Education 406, Section 2
Education 407
Education 416
Education 417

Examination Schedule

8:30 a.m., Thursday, August 16—courses in which lectures scheduled during session in period 8:15-10:10 a.m., except sectioned classes.

12:00 noon, Thursday, August 16—English 100, English 200, English 300.

3:30 p.m., Thursday, August 16—courses scheduled in lecture period 1:30-3:30 p.m., except sectioned classes.

8:30 a.m., Friday, August 17—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 17—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 3 to July 24 will be held on July 25.

The examinations for courses scheduled from July 26 to August 15 will be held on August 16 or 17.

The examinations for P.E. 101 and P.E. 201 will be held on Monday, August 13.

COMMERCE

EARL BLAINE, B.Com., M.B.A., C.A., Assistant Professor.
MISS FLORENCE BROWN, B.A., Commercial Specialist, Lord Byng High School.
JAMES GOLDIE, B.A., Commercial Specialist and Vice-Principal, Windsor School.
COLIN C. GOURLAY, M.Com., Professor and Assistant Dean.
RALPH R. LOFFMARK, B.A., M.B.A., C.A., Associate Professor.
DAVID QUIRIN, M.A., A.M., Ph.D., Assistant Professor.

ECONOMICS

R. A. HOLMES, M.A., Ph.D., Assistant Professor.
S. M. JAMIESON, M.A., Ph.D., Professor.
RICHARD G. LIPSEY, M.A., Ph.D., Reader, London School of Economics.

EDUCATION

W. H. AULD, B.A., M.Ed., Associate Professor.
MISS BERNICE BAXTER, A.B., Ph.D., Lecturer, Mills College, California.
MRS. G. BIRKETT, B.A., B.Ed., M.A., Associate Professor.
MRS. ALICE V. BORDEN, B.A., Ed.M., Lecturer.
REX V. BOUCHTON, M.Sc., Ph.D., Associate Professor.
HAROLD F. BURKS, M.A., Ph.D., Director of Special Education, Downey Unified School District, California.
D. O. BUTLER, B.A., B.Ed., M.Ed., Art Chairman, Wilson Heights J.H.S., North York Township, Ontario.
MRS. SHEILA E. CAMERON, Commercial Specialist and Head of Commercial Department, Vancouver Technical High School.
MRS. P. READ CAMPBELL, B.Ed., M.S., Ph.D., Assistant Professor.
G. H. CANNON, B.A., B.Ed., M.Sc., Assistant Professor.
MRS. ELAINE S. CLEMONS, B.A., Speech Consultant, Vancouver Schools.
H. M. COVELL, B.A., B.Ed., M.A., Ed.D., Associate Professor.
ARTHUR R. DELONG, B.Sc., M.A., Ph.D., Associate Professor, University of Delaware.
MRS. GRETA L. DELONG, Ph.D., Associate Professor, Westchester College, Delaware.
R. EDWARDS, B.Sc., M.Ed., Professor, Macdonald College, McGill University.
J. FRANKLIN FITZGERALD, Ph.D., Assistant Professor, Boston University.
A. NEIL GALLUZZO, Ph.D., Assistant Superintendent, Inglewood Unified School District, California.
FRANK GAMBLE, B.F.A., M.A., Ed.D., Assistant Professor.
HARRY S. GANDERS, B.Ed., M.A., Ph.D., Emeritus Professor and Dean, Syracuse University.
F. A. GORNALL, B.A., B.Ed., Senior Instructor.
M. GULUTSAN, B.A., B.Ed., Instructor II.
D. C. HAMBLETON, B.Ed., M.A., Ed.D., Assistant Professor.
R. M. HAMILTON, B.A., B.L.S., Assistant Professor.
ROBERT L. HAMMOND, M.A., Instructor II.
W. J. HARTRICK, B.A., Ph.D., Assistant Professor.
BRIAN HOLMES, B.Sc., A.Inst.P., Lecturer, Institute of Education, University of London, England.
R. C. HONEYBONE, M.A., Head of Department of Geography, Institute of Education, University of London.

W. CATHERALL, Vancouver Technical School.
A. DALSVAAG, Burnaby.
H. FINDLAY, Vancouver Technical School.
T. HELD, Federal-Provincial Trades and Technical Institute.
R. J. LEDUC, B.Ed., Instructor.
K. MITCHELL, J. Lloyd Crowe High School, Trail.
R. MORRICE, Gladstone Junior-Senior High School.
A. ROGATNICK, B.A., B.Arch.
D. SMITH, Vancouver Technical School.
GORDON SMITH, Dip.(V.S.A.), A.R.C.A., Assistant Professor of Education.

ENGLISH

MISS E. L. BAXTER, B.A., A.M., Assistant Professor.
ROBERT L. BERNER, M.A., Ph.D., Instructor.
J. DEBRUYN, M.A., Assistant Professor.
LOUIS DUDEK, A.M., Ph.D., University of McGill.
WILLIAM E. FREDEMAN, M.A., Ph.D., Assistant Professor.
R. E. HABENICHT, M.A., D.Phil., Assistant Professor, University of California at Los Angeles.
MRS. A. E. HAMBLETON, B.A., B.L.S.
MRS. M. MACKENZIE, M.A., Ph.D., Assistant Professor.
E. W. MANDEL, M.A., Ph.D., Associate Professor, University of Alberta.
M. W. STEINBERG, M.A., Ph.D., Associate Professor.
D. G. STEPHENS, M.A., Ph.D., Assistant Professor.
J. VINOCUR, B.A., Ph.D., Assistant Professor, Montana State University.

FINE ARTS

STANLEY H. CLARKE, Kiln Specialist, White Rock, B.C.
M. FOSTER, B.Ed., Instructor, Faculty of Education.
S. D. HEALY, B.F.A., M.A., Assistant Professor.
J. A. S. MacDONALD, Dip.(V.S.A.), Associate of Institute of Education, Associate Professor.
D. J. McINTOSH, B.A., Dip.(V.S.A.), M.F.A., Instructor, Faculty of Education.
IAN McNAIRN, B.A., Associate Professor.
G. A. PROCTOR, B.A., M.M., Ph.D., Assistant Professor, Department of Music.
LIONEL A. J. THOMAS, Assistant Professor.

FRENCH

JOHN GORDON ANDISON, B.A., A.M., Ph.D., Professor and Head of Department (retires June 30).
MRS. GENEVIÈVE BIRD, L. ès L., M.A., Lecturer.
LAWRENCE L. BONGIE, B.A., Docteur de l'Université de Paris, Assistant Professor.
ROBERT JOHN GREGG, B.A., H.Dip.Ed., Associate Professor.
MRS. ANTOINETTE NOEL HOFFHERR, L. ès L., M.A., Lecturer, Barnard College, Columbia University, New York.
DAVID J. NIEDERAUER, M.A., Assistant Professor.
MISS BARBARA RICHARDSON, B.A., Teaching Assistant.

LATIN

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

MATHEMATICS

M. BENEDICTY, Ph.D., Assistant Professor.
MARIO BORELLI, B.A., Ph.D., Instructor.
A. H. CAYFORD, M.A., Ph.D., Instructor.
HSIN CHU, M.S., Ph.D., Assistant Professor.
L. JOHNSTON, M.A., Lecturer, Case Institute of Technology.
S. KOBAYASHI, B.S., Ph.D., Assistant Professor.
E. LEIMANIS, Mag.Math., Dr.Rer.Nat., Professor.
E. MACSKASY, Cand.Sc., Assistant Professor.
TAKASHI ONO, D.Sc., Assistant Professor.
J. SMITH, B.A., B.Ed., Lecturer.
R. C. THOMPSON, M.A., Ph.D., Instructor.
K. TRAVERS, B.A., M.Ed., Lecturer.

MUSIC

HARRY ADASKIN, Professor.
ALLEN E. CLINGMAN, M.M., M.A., Ed.D., Assistant Professor.
SAMUEL E. DAVIS, M.M., Instructor.
CORTLAND HULTBERG, M.S., M.M., Instructor.
G. WELTON MARQUIS, M.A., Ph.D., Professor and Head of Department.
ROBERT B. MORRIS, M.M., Doctor of Vocal Pedagogy, Associate Professor.
DOUGLAS TALNEY, M.M., Instructor.
CAMPBELL TROWSDALE, B.M., M.Ed., Assistant Professor.
ELLIOT WEISGARBER, M.M., Assistant Professor.

OCEANOGRAPHY

R. W. BURLING, M.Sc., Ph.D., Assistant Professor, Department of Physics.
GEORGE L. PICKARD, M.B.E., M.A., D.Phil., Professor, Department of Physics and Director of the Institute of Oceanography.

PHILOSOPHY

DONALD G. BROWN, M.A., D.Phil., Assistant Professor.
WARREN J. MULLINS, M.A., Ph.D., Assistant Professor.
PETER REMNANT, M.A., Ph.D., Associate Professor.
ROBERT J. ROWAN, M.A., Ph.D., Assistant Professor.

PHYSICAL EDUCATION

STANLEY R. BROWN, Dip. of Phys.Ed., M.S., Ph.D., Assistant Professor.
MRS. LOUISE DEVEREAUX, B.P.E., Instructor.
FRANK T. GNUP, B.S.(P.E.), Instructor.
ROBERT G. HINDMARCH, B.P.E., M.S., Assistant Professor.
E. A. HUNT, M.P.E., Kitsilano High School.
FRANK KURUC, Instructor, Vancouver Y.M.C.A.
PETER M. MULLINS, Dip. in Phys.Ed., M.S., Ed.D., Assistant Professor.
PETER PRENTICE, Vancouver.

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, 1962.

(c) **All registrants who have not completed registration by June 1 will be assessed the late registration fee of $20.00; no registration will be accepted after June 25.**

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

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

3. Restriction on registration in the Summer Session:

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

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

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.

NON-CREDIT COURSES

Registration Procedure.

Write to the Extension Department stating the course or courses desired. Prospective students will then be mailed an application form which should be returned at as early a date as possible, the size of some classes being limited.

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

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

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

Scholarships, Bursaries, Loan Funds

(Open only to students taking regular academic courses)

University Summer Session Bursaries

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

The Summer Session Association Loan Fund

The Summer Session Association of 1947 established a loan fund as a trust to be used for a limited number of loans to teachers ("teachers" as defined by the Public Schools Act of British Columbia) who have attained satisfactory academic standing. Loans from this fund are to be repaid by June 30 following receipt of the loan, and until this date no interest will be charged. Loans up to a maximum of $100, which may be repaid at any time during the period by assigned instalments, will be granted on the basis of scholarship and financial need. Loans will be made on the recommendation of the Joint Faculty Committee and representatives of the Summer Session Association.

Social—Activity Schedule

Activity	*Location*	*Details*
Swimming	Memorial Gym Pool	$3.00 pass required
Diving	Memorial Gym Pool	$3.00 pass required
Life Saving	Memorial Gym Pool	$3.00 pass required
Tennis	Memorial Gym Courts (East)	Racquets for rent $2.00
Social Dancing	Memorial Gym (Upper Lobby)	Charge of 25c per session
Square Dancing	Women's Gym or Buchanan Patio (depending on weather)	8:00-10:00 p.m.
Golf	McInnes Field (behind Memorial Gym)	Equipment supplied.
S.S.A. Mixer	Brock Hall	Friday, 9:30 p.m.-12:30 a.m.

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

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

Lunch Hour Choir—

Students are invited to participate in a lunch hour choir. This group will meet in Room 117 in the Education Building on Tuesdays and Thursdays at 12:30. Bring lunch.

SUMMER SCHOOL SPECIAL EVENTS CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	July 3 Public Affairs Lecture Series Buchanan 106 **8:00 p.m.**	**July 4** French Canada Seminar International House **9:30 a.m. -** **5:00 p.m.**	**July 5** Fine Arts Lecture Series Buchanan 106 **8:00 p.m.** French Canada Seminar International House **9:30 a.m. -** **5:00 p.m.**	**July 6** SSA Mixer Brock Lounge **9:30 p.m.** French Canada Seminar International House **9:30 a.m. -** **5:00 p.m.**	
July 9 East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.**	**July 10** East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.** Public Affairs Lecture Series Buchanan 106 **8:00 p.m.**	**July 11** SSA Concert Auditorium **12:30 p.m.** SSA Square Dance Buchanan Quad. **8:00 p.m.** East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.**	**July 12** SSA Meeting Auditorium **11:30 a.m.** East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.** Fine Arts Lecture Series Buchanan 106 **8:00 p.m.**	**July 13** High School Band Concert Buchanan Quad. **12:30 p.m.** East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.** SSA Mixer Brock Lounge **9:30 p.m.**	
July 16 Festival Preview Buchanan 106 **12:30 p.m.** Middle East Seminar East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.**	**July 17** Festival Preview Buchanan 106 **12:30 p.m.** Middle East Seminar East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.** Public Affairs Lecture Series Buchanan 106 **8:00 p.m.**	**July 18** SSA Concert Auditorium **12:30 p.m.** High School Orch. Concert Buchanan Quad. **12:30 p.m.** Middle East Seminar East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.** SSA Square Dance Buchanan Quad.	**July 19** Middle East Seminar East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.** Festival Preview Buchanan 106 **12:30 p.m.** Fine Arts Lecture Series Buchanan 106 **8:00 p.m.**	**July 20** High School Band Concert Buchanan Quad. **12:30 p.m.** Middle East Seminar East/West Dialogue New Fine Arts Building **9:30 a.m. -** **5:00 p.m.** SSA Mixer Brock Lounge **9:30 p.m.**	

TRAFFIC AND PARKING REGULATIONS

Parking areas will be provided for Students, Faculty and Staff, and Visitors. All of these areas will be plainly marked and permits will be issued to allow cars to park in the areas designated. Systematic regulation of traffic and parking on campus will be enforced.

Brochures outlining traffic and parking regulations for the Winter and Summer Sessions have been prepared and, for those attending Summer Session, the brochures will be obtained from the Traffic Office in the Department of Buildings and Grounds during the registration of the Summer Session cars.

All Students and all Faculty and Staff members of the University are responsible for obtaining and familiarizing themselves with the traffic and parking regulations.

Parking regulations remain in effect throughout Summer Session and students must park in designated student lots and register their cars immediately upon arrival on Campus.

THE UNIVERSITY BOOK STORE

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

During the summer session the book store is open Monday to Friday, from nine to five o'clock.

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

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

Railway companies have in the past offered a reduction in fare from stations in Canada for summer session students, instructors, and their families. Normally, students purchase a regular one-way first-class or coach class ticket during a specified period in June and secure at that time a standard Convention Certificate. This certificate, if presented to a Ticket Agent not later than the specified date in August entitles the holder to purchase a return ticket at one-half of the one-way fare. Tickets for the return journey permit stop-overs and are limited to thirty days from the official closing date. Students must check with their Ticket Agents in order to learn the dates which are applicable this year.

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

LIBRARY INSTRUCTION

It is recommended that all students new to this campus attend one series of three orientation lectures to be given by the staff of the Library in Buchanan 106. Lecture 1 will be given at 8:15 a.m., 10:25 a.m. or 1:30 p.m. on Tuesday, July 10. Lecture 2, at the same hours on Wednesday, July 11, and Lecture 3 on Thursday, July 12.

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.

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.

Faculty of Education students holding the E.C. certificate may qualify for the Interim E.B. by completing Second Year of their degree programme through Grade 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 after the student has been enrolled in two winter sessions.

In general to fulfill course requirements for the Permanent E.B. certificate teachers whose training has been taken through the Faculty of Education 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. 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.**

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

Full Second Year	—	Elementary Basic
Full Third Year	—	Elementary Advanced
Full Fourth Year	—	Professional C
Full Fifth Year	—	Professional Basic

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 Basic
Full Second Year	—	Elementary Advanced
Full Third Year	—	Professional C
Full Fourth Year	—	Professional Basic

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

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

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

APPLICATION FOR TEACHER CERTIFICATION

It must be recognized that sole responsibility for teacher certification rests with the Department of Education in Victoria. Before a certificate can be changed application must be made to the Department. Since the type of certificate issued is dependent upon the standing within the University, the Department of Education requires evidence of such standing. A pink card is provided in the Registration Booklet on which to make application for a change in certification. This card will, at the conclusion of Summer Session, be forwarded to the Registrar of the Department of Education, Victoria, certifying as to the student's standing, together with transcripts where necessary. No further application is needed, either to the University or to the Department of Education.

TIMETABLE FOR 1962 SUMMER SESSION
INDUSTRIAL ARTS SECTION

Number	*Course*	*Time*
Ed. 352	Mechanical Drawing II	
	Section 1	1-5
Ed. 353	Design	
	Section 1	8-12
	Section 2	1-5
	Section 3 (if offered)	8-12
Ed. 354	Welding	
	Section 1	8-12
	Section 2	1-5
	Section 3 (if offered)	1-5
Ed. 450	Woodwork II	
	Section 1	8-12
	Section 2	1-5
Ed. 451	Metalwork II	
	Section 1	8-12
Ed. 452	Building Construction	
	Section 1	8-12
	Section 2	1-5
Ed. 453	Auto Mechanics	
	Section 1	8-12
	Section 2	1-5
Ed. 454	Pattern Making and Non-Ferrous Casting Techniques	
	Section 1	8-12
Ed. 455	Principles of Design and Construction of Small Boats	
	Section 1	1-5

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 1962 are expected to complete the second and third summers in 1963 and 1964.

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 301—Educational Psychology ..... 3 units (if not completed previously) and
   - (2) One of the following—
     - Education 332—Psychology of Adolescence ..... 3 units
     - Education 411—Guidance and Counselling Services ..... 3 units
     - Education 461—Diagnostic and Remedial Teaching ..... 3 units

3. ***Home Economics graduates who have completed two summer sessions of the required courses should enrol for their third summer session in the following courses:***
   - (1) Education 301—Educational Psychology ..... 3 units (if not completed previously) and
   - (2) One of the following—
     - Education 332, 411, 461 ..... 3 units

Graduates should register for the courses prescribed for their respective summer programmes. Education 301 and 410 will be available in 1962 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 1962 for prospective teachers in Home Economics holding Elementary Basic certificates are:

Home Economics 101-403 ..... 3 units

Courses of Study

ANTHROPOLOGY

331. Art and Myth in Primitive Society.

The social and technological basis of art; theories of origin, development and interpretation. Major plastic and graphic arts, mythology, music and dance of the primitive world. The artist in primitive society.

Ten hours lectures a week—3 units.

Mr. Dark.

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.

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

Limited to 30 students.

Text-books: Pelczar and Reid. *Microbiology,* (McGraw-Hill. 1958 Edition); or Frobisher, *Fundamentals of Microbiology,* (Saunders Co., Sixth Edition, or Seventh if available).

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

Mr. Bismanis.

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., Third Edition).

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

Mr. Allardyce.

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: Winchester, *Genetics,* (Houghton-Mifflin, Second Edition).

Ten hours lectures a week—2 units.

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: Winchester, *Genetics Laboratory Manual,* (Burgess Publishing Co.).

Eight hours laboratory a week—1 unit.

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.**

Mr. Bradeen.

333. The Roman Empire.

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

Prerequisite: Classical Studies 331.

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

Ten hours lectures a week—3 units.

Mr. Guthrie.

COMMERCE

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

90. Typewriting Techniques, Practice and Methods.

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

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

Limited to* 40 *students.

Text-book: Russon and Wanous, *Philosophy and Psychology of Teaching Typewriting, with Suggested Teaching Procedures,* (Southwestern, W. J. Gage, Limited, most recent edition); Lessenberry and Crawford, *20th Century Typewriting,* (Southwestern, W. J. Gage, Limited, Sixth Edition).

Five hours lectures and ten 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 four 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.

Text-books: Reynolds, *Labour Economics and Labour Relations,* (Prentice Hall, 1959); Bakke, Kerr and Anrod, *Unions, Management and the Public,* (Wiley, 1960).

Ten hours lectures a week—3 units.

Mr. Jamieson.

402. International Trade.

Comparative costs and factor endowments; terms of trade; free trade vs protection; monetary mechanism; gold vs paper; internal vs external stability; the transfer problem; capital movements.

Prerequisite: Economics 200 and 300.

Ten hours lectures a week—3 units.

Mr. Lipsey.

EDUCATION

Note: 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.

301. Educational Psychology *(open only to Home Economics graduates).*

The learner; the learning process; adjustment of the learning situation to individual differences; the adjustment process; mental health.

Text-book: Mouly, *Psychology for Effective Teaching,* (Holt).

Ten hours lectures a week—3 units.

Mr. Munro.

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 Normal School Diploma.

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

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

Mr. Butler.

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 40 students.

Prerequisite: Education 207 or Normal School Diploma.

Text-book: Pierce, *Teaching Music in the Elementary School,* (Henry Holt and Company).

Ten hours lectures a week—3 units.

Mr. Gamble.

309. General Science for Elementary 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.

Limited to 40 students.

Ten hours lectures a week—3 units.

Mr. Hamilton.

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.

Pre-reading recommended: Dewey, *Democracy and Education* and *How We Think*; Plato, *Republic.*

Text-book: Morris, *Philosophy in the American School,* (Houghton Mifflin), or Wilds, *Foundations of Modern Education,* (Rinehart and Co.).

Ten hours lectures a week—3 units.

Mr. Ganders, Mr. Murra.

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. Every student is required to take *two* of the options listed below, and is strongly advised to audit an additional one. The course may be taken in two parts, in separate years. The following subjects indicate the range of options offered to students: Biology and General Science, English, Chemistry and General Science, French, Latin, German, Spanish, History and Social Studies, Geography and Social Studies, Mathematics, Art, Health and Personal Development, Physical Education, Physics and General Science, Music, Commerce, Industrial Arts, Home Economics, Agriculture, Theatre.

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

Commerce.

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

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

Ten hours lectures a week—3 units.

Mrs. Cameron, Mr. Trotter.

English.

Five hours lectures a week—1½ units.

Mr. MacLean.

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. Tomkins.

See also Geography 445.

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.

Limited to 50 students registered in Third or higher year.

Ten hours lectures a week—3 units.

408. Teaching the Mentally Superior.

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

Text-book: DeHaan, and Havighurst, *Educating Gifted Children*, (University of Chicago Press, 1961 Edition).

Ten hours lectures a week—3 units.

Mr. Worcester.

410. The Organization and Administration of B.C. Schools. ***(Open only to Home Economics and Industrial Arts teachers-in-training.)***

Functions and duties of trustees, superintendents, principals, supervisors and teachers in the modern school as based on the Manual of School Law and the Administrative Bulletins. The administration and operation of the individual school. Classroom organization and control. Co-curricular activities. Working relations among the Department of Education, trustees, principals, teachers and parents. Consideration of Reports of Commissions on Education.

Text-books: *Manual of School Law* (Department of Education); *Administrative Bulletin* (Secondary Edition, Department of Education).

Ten hours lectures a week—3 units.

Mr. Towell.

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.

Prerequisite: Education 102 or 301.

Text-books: Froehlich, *Guidance Services in Schools* (McGraw-Hill, Second Edition, 1958); Miller, *Foundations of Guidance* (1961 Edition).

Ten hours lectures a week—3 units.

Miss Nevison.

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: Dale and Edgar, *Audio-Visual Methods in Teaching*, (Dryden Press, Revised Edition).

Ten hours lectures a week—3 units.

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).

of Western Education, (MacMillan, Second Edition); Rusk, *The Doctrines of the Great Educators,* (MacMillan, Revised Edition); Ulich, *History of Educational Thought,* (American Book Co., 1945).

Ten hours lectures a week—3 units.

Mr. Skinner.

460. An Introduction to School Administration.

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

Ten hours lectures a week—3 units.

Mr. Hartrick.

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.

Elementary section limited to 50 students.

Section 1 (Elementary teachers) text-book: Brueckner and Bond, *Diagnosis and Treatment of Learning Difficulties,* (Appleton Century-Croft, 1955 Edition).

Section 2 (Secondary teachers) text-book: Glenn, Myers, Blair, *Diagnostic and Remedial Teaching (Secondary),* (Macmillan, 1956 Edition).

Ten hours lectures a week—3 units.

Mr. Hammond (Section 1), Mr. Yoas (Section 2).

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 teaching in remedial classrooms.

Limited to 20 students.

Prerequisites: Education 415 or equivalent, and teaching experience.

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

Text-book: Kottmeyer, *Handbook to Remedial Reading.*

Ten hours lectures a week—3 units.

Mrs. Rizer.

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 25 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

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

Text-books: *Educational Measurement*, edited by Lindquist, (American Council on Education, Washington); Lefever and Carnes, *A Workbook in Measurement and Evaluation*, (College Book Store, Los Angeles).

Ten hours lectures a week—3 units.

Mr. Lefever.

536. Individual Tests.

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

Pre-reading required: Bibliography supplied by instructor.

Ten hours lectures a week—3 units.

Mr. Burks.

557. Administration and Supervision of the Elementary School.

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

Limited to 30 students.

Pre-reading recommended: the text.

Text-book: Mickelson and Hansen, *Elementary School Administration*, (McGraw-Hill, 1957).

Ten hours lectures a week—3 units.

Mr. Thomson.

558. Administration and Supervision of the Secondary School.

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

The course will emphasize the development, organization, curriculum, administration and supervision of secondary schools.

Pre-reading recommended: Jacobson, Reavis, Lagson, *The Effective School Principal*, (Prentice Hall).

Ten hours lectures a week—3 units.

Mr. Taylor.

559. School Finance.

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

Prerequisite: Education 557 or Education 558.

Ten hours lectures a week—3 units.

Mr. Galuzzo.

564. Research Problems in Curriculum Organization.

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

Limited to 20 students.

Prerequisite: Education 204 or 404.

Pre-reading recommended: Corey, *Active Research to Improve School Practice*; Saylor and Alexander, *Curriculum Planning for Better Teaching and Learning*.

Text-books: Smith, Stanley and Shores, *Fundamentals of Curriculum Development*, (World Book Co., Revised Edition, 1957); Association for Supervision and Curriculum Development, *Research for Curriculum Improvement*, (National Education Association, 1957).

Five hours lectures a week—1½ units.

Mr. Stein.

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).

Five hours lectures a week—1½ units.

Mr. Stein.

585. Advanced Seminar on Research in Pre-School Education.

Investigation of educational procedures and materials found through research to meet best the physiological, social and psychological needs of young children.

Prerequisites: Education 331 and Education 333.

Ten hours lectures a week—3 units.

Miss Baxter.

INDUSTRIAL ARTS COURSES

352. Mechanical Drawing.

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

Limited to twenty students.

Text-book: French and Vierck, *Graphic Science*, (McGraw-Hill, latest edition).

Prerequisites: Education 150, Education 252.

Twenty hours laboratory a week—3 units.

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. Rogatnick, Mr. G. 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. Biddlecombe, Mr. Findlay, Mr. Held.

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: McClennen, *Masters and Masterpieces of the Short Story,* (Second Series, Holt); Steinberg, *Aspects of Modern Drama,* (Holt); Forster, *A Passage to India;* Williams, *A Little Treasury of Modern Poetry,* (Scribner's); McGrimmon, *Writing with a purpose,* (Houghton Mifflin, Second Edition); Hamalian and Volpe, *Essays of our Time,* (McGraw-Hill); Cary, *The Horse's Mouth.*

Pre-reading required: the novels of Forster and Cary.

Ten hours lectures a week—3 units.

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,* (Rinehart); 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.

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.

Ten hours lectures a week—3 units.

301. Children's Literature.

A survey of children's literature from early sources to recent books. An historical approach to the appraisal of books and authors for children.

For credit only in the Faculty of Education.

Text-book: Meigs, Eaton, Nesbitt, Viguers, *A Critical History of Children's Literature,* (Macmillan, 1953 Edition).

Ten hours lectures a week—3 units.

Miss Baxter, Mrs. Hambleton, Mr. Mandel.

400. Advanced English Composition.

The course gives practice in writing the personal essay and the research

mingway and Faulkner. For information on required pre-reading examination consult Instructor.

Pre-reading recommended: James, *The Portrait of a Lady, The Wings of the Dove;* Crane, *The Red Badge of Courage;* Dreiser, *Sister Carrie;* Anderson, *Winesburg, Ohio;* Hemingway, *The Sun Also Rises;* FitzGerald, *The Great Gatsby;* Wolfe, *Look Homeward, Angel;* Faulkner, *The Sound and the Fury, Absalom, Absalom.*

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

Text: *American Poetry and Prose,* New Shorter Edition, ed. by Foerster and Falk (Houghton Mifflin, 1960); *Fifteen Modern American Poets,* ed. by G. P. Elliott (Rinehart, 1956).

Ten hours lectures a week—3 units.

Mr. Berner.

431. Victorian Poetry.

Chiefly Tennyson, Browning. In addition, the following poets will be discussed: Arnold, Rossetti, Swinburne, Morris, Meredith and FitzGerald. A preliminary examination will be given at the end of the first week on the following major works: *In Memoriam, Maud, The Idylls of the King* (selections in text), and *The Ring and the Book* (selections in text).

Text: Houghton and Stange, *Victorian Poetry and Poetics,* (Houghton Mifflin Co.).

Ten hours lectures a week—3 units.

Mr. Fredeman.

434. Contemporary Literature.

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

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. Vinocur.

435. Canadian Literature.

A survey of our literature in the English tongue, with some attention to a few major French-Canadian works in translation. Chief emphasis will be placed on achievements within the past 75 years.

Pre-reading recommended: The two main texts: *Canadian Anthology,* and *The Oxford Book of Canadian Verse.*

Pre-reading required (examination given during first week on pre-reading required): Haliburton, *Sam Slick the Clockmaker;* Moodie, *Roughing It in the Bush;* Leacock, *Sunshine Sketches of a Little Town;* Hiebert. *Sarah Binks;* Callaghan, *Collected Short Stories;* MacLennan, *The Watch That Ends the Night.*

Text-books: *Canadian Anthology,* ed. by Klinck and Watters, (Gage, 1955); *The Oxford Book of Canadian Verse,* ed. by Smith, (Oxford, Toronto, 1960).

Ten hours lectures a week—3 units.

Mr. Stephens.

535. Studies in the Victorian Period.

Late Nineteenth Century Literature.

Pre-reading required: list from instructor.

303. Ceramics and Modelling I.

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

Limited to 10 students.

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

For credit only in the Faculty of Education.

Text-book: Saunders, *Sunset Ceramics.*

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

Mr. Clarke.

401. Painting I.

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

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

For credit only in the Faculty of Education.

Limited to 20 students majoring in Art.

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

Mr. Macdonald.

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 20 students majoring in Art.

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

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

Mr. Macdonald.

403. Ceramics and Modelling II.

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

For credit only in the Faculty of Education.

Limited to 5 students.

Prerequisite: Fine Arts 303 or equivalent course.

Text-book: Saunders, *Sunset Ceramics.*

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

Mr. Clarke.

425. History of Modern Art.

An advanced course in the principal art movements in Western Europe from 1700 to the present.

A prior course in Art History is recommended but not required.

Ten hours lectures a week—3 units.

Mr. McNairn.

FRENCH

110 and 120. First Year University French.

Study of French texts; grammar, pronunciation.

Prerequisites: French 110: French 20; French 120: French 92.

Pre-reading recommended for French 120: La Symphonie Pastorale.

Section 1 Laboratories will be arranged at 10:25, 1:30 or 3:45 at the first meeting of the class.

Section 2 Laboratories will be arranged at 8:15, 1:30 or 3:45 at the first meeting of the class.

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

Mr. Murray, Mr. Walton.

201. Human and Economic Geography.

Man, his occupations and his settlements; distributions of world population, natural resources, (agricultural, forestry, fishing and mining), and problems of world trade.

Limited to 150 students.

Prerequisite: Geography 101 recommended.

Text-book: Thoman, *Geography of Economic Activity,* (McGraw-Hill, 1962 Edition).

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

Mr. Hardwick, Mr. Thoman.

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.

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. Mitchel, Mr. Warman.

304. The Geography of Settlement.

The process of settlement: the grouping, functions and structure of rural and urban settlement; central place studies; map and photo interpretation.

Limited to 65 students.

Prerequisite: Geography 101 or Geography 201 or Geography 207.

Ten hours lectures a week—3 units.

Mr. Jones.

406. Geography of East Asia.

A regional survey of the physical and human geography of Eastern Asia with emphasis on the countries of the Far East and Southeast Asia.

Limited to 65 students.

Prerequisite: Geography 101.

Ten hours lectures a week—3 units.

409. Geography of Canada and the United States.

Regional geography with emphasis on British Columbia and the United States; landforms, climate, natural resources, population; primary industries.

Limited to 70 students.

Prerequisite: Geography 101.

Text-book: Paterson, *North America—a Regional Geography,* (Oxford, 1961 Edition).

Ten hours lectures a week—3 units.

Mr. Farley, Mr. Jensen.

300. The Classical Period.

Drama of the 18th Century, with emphasis on Lessing, Goethe and Schiller. Prerequisite: German 200 or equivalent.

Pre-reading required: List available from department.

Text-books: Lessing, *Emilia Galotti; Minna von Barnhelm; Nathan der Weise;* Goethe, *Faust I; Iphigenie;* Schiller, *Maria Stuart.*

Ten hours lectures a week—3 units.

Mr. McNeely.

404. The Romantic Movement.

A study of the literature of the period against the background of philosophical, political and social developments.

Prerequisite: German 200 or equivalent.

Text-books: List available from department.

Ten hours lectures a week—3 units.

Mr. Loeb.

HISTORY

See also Classical Studies, International Studies and Political Science.

101. Main Currents in Twentieth-Century History.

This course offers a background for contemporary world problems. Extra work will be required from Third and Fourth Year students.

Text-books: Hughes, *Contemporary Europe: a History,* (Prentice Hall); Snyder, *Fifty Major Documents of the Twentieth Century,* (D. van Rostrand).

Ten hours lectures a week—3 units.

Mr. Lightbody.

102. The History of Canada.

Introductory general course recommended as a prerequisite for History 420, 426. 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. Webster.

407. History of Modern Germany.

This course describes the development of the main political, constitutional, economic, and social events in Germany during the 19th and 20th Centuries. A reading knowledge of German is desirable.

Text-book: Pinson, *Modern Germany, its History and Civilization,* (Macmillan Co.); or Flenley, *Modern German History,* (Dutton and Co.).

Ten hours lectures a week—3 units.

Mr. Conway.

411. The History of Australia, New Zealand, and South Africa.

From the earliest settlements to the present. Readings to be assigned.

Text-books: Shaw, *The Story of Australia,* (Faber and Faber, 1955); Sinclair, *A History of New Zealand,* (Penguin Books, 1959); Marquard, *The Story of South Africa,* (Faber and Faber, 1955).

Ten hours lectures a week—3 units.

Mr. Wilde.

Text-books: Heseltine and Dow, *The New Basic Cookbook*, (Houghton-Mifflin, 1957 Edition); Justin, Rust and Vail, *Foods*, (Houghton Mifflin, Fourth Edition).

Introduction to Human Nutrition.

Designed for Physical Education and Education Majors; presenting background information required for effective teaching of Health and Nutrition. It is desirable that students have Zoology 303.

Text-book: Bogert, *Nutrition and Physical Fitness*, (Saunders, Seventh Edition).

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

Miss Smith.

421. Child Development and Family Relations.

Physical, mental, social and emotional development of infant and child. Study of family relations and home nursing. Observation to be arranged.

Limited to 30 students.

Prerequisite: Psychology 100 or equivalent.

Ten hours lectures a week—3 units.

Miss Ruley.

INTERNATIONAL STUDIES

301. International Organization Since 1919.

The structure, function and problems of international organizations since the appearance of the League of Nations.

Text-book: Cheever and Haviland, *Organizing for Peace*, (Houghton Mifflin).

Ten hours lectures a week—3 units.

Mr. Mostofi.

ITALIAN

100. First Year Italian.

Grammar, reading, conversation.

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

Ten hours lectures a week—3 units.

Mrs. Ciccone.

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 Roman author (in 1962 Vergil) will be read, partly in the original and partly in English translation, the amount of the original varying with the student's preparation. Students desiring credit in Latin 110, 120, 210, 220, 303 or 531 will register for this course under the appropriate number and will receive three units of credit upon the successful completion of the appropriate amount of work. Students who have failed Latin 110 in the winter session will not be admitted.

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

Pre-reading for Latin 110: first twelve units of De Witt, Gummere and Horne, *College Latin*.

Text-books: Vergil, (Two Volumes) *Aeneid* (ed. by T. E. Page, Macmillan); Knight, *The Aeneid*, (Penguin).

Ten hours lectures a week—3 units.

Mr. McGregor.

306. Topics in Geometry.

Elementary combinatorial topology of surfaces, Euclidean, projective, and non-Euclidean geometry.

Prerequisite: Mathematics 202 or 220.

Ten hours lectures a week—3 units.

Mr. Benedicty.

308. Topics in Algebra.

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

Prerequisite: Mathematics 202 or 220.

Ten hours lectures a week—3 units.

Mr. Thompson.

310. Algebra and Geometry.

Mathematical induction, complex numbers, polynominals, 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. Mathematics 310 is open to Second Year students with the consent of the Department.

Ten hours lectures a week—3 units.

Mr. Chu.

401. Analysis.

Sets of points; measure; differentiation and integration; further properties of the integral; the Lebesgue-Stieltjes integral; L^2-, L^p-, and C-spaces; Hilbert space, finite-dimensional vector spaces.

Prerequisites: Mathematics 320, 321, 322, or consent of department.

Text-book: Kolmogoroff and Foamin, *Functional Analysis, Volumes I and II,* (Graylock Press).

Ten hours lectures a week—2 units.

410. Differential Equations.

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

Prerequisite: Mathematics 300.

Ten hours lectures a week—3 units.

Mr. Macskasy.

412. Fundamentals of Analysis.

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

Prerequisite: Mathematics 306 or 308.

Text-book: Boas, *A Primer of Real Functions,* (J. Wiley and Sons).

Ten hours lectures a week—3 units.

Mr. Ono.

503. Differential Geometry.

Prerequisite: consult the department.

Ten hours lectures a week beginning June 25—2 units.

Mr. Kobayashi.

See also Education 565 (Mathematics).

Pre-reading required: Softball Rule Book, 1962.
One hour per day, July 26-August 15, inclusive—½ unit.
Mr. Hunt.

210. Basketball.

Fundamentals, basic drills, simple offensive tactics.

Text-book: McCracken, *Indiana Basketball,* (Prentice-Hall).
One hour per day, July 26-August 15, inclusive—½ unit.
Mr. Mullins.

212. Football.

Fundamentals, basic drills and formations.

Text-book: Daugherty and Wilson, *First and Ten,* (Brown Co.).
One hour per day, July 3-July 24, inclusive—½ unit.
Mr. Gnup.

214. Rugby.

Basic skills, rules, emphasis on playing.
One hour per day, July 26-August 15, inclusive—½ unit.
Mr. Hunt.

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).
One hour per day, July 3-July 24, inclusive—½ unit.

219. Volleyball.

Basic skills, rules, team tactics.
Pre-reading required: *The U.S.V.B.A. Rule Book,* (1962 Edition).
Text-book: Welch, *How To Play and Teach Volleyball.*
One hour per day, July 3 - July 24, inclusive—½ unit.
Mr. Kuruc.

226. Tennis.

Strokes, tactics, systems, umpiring.
One hour per day, July 3-July 24, inclusive—½ unit.
Mr. Brown.

229. Weight Training.

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

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

Text-book: Murray and Karpovich, *Weight Training in Athletics,* (Prentice-Hall, 1956 Edition).
One hour per day, July 26-August 15, inclusive—½ unit.
Mr. Brown.

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 26-August 15, inclusive—½ unit.

All students must report July 3 to Empire Pool, prepared to demonstrate their competence.
Mr. Hindmarch.

312. Advanced Football.

Offensive and defensive tactics; generalship; conduct of practices; use and development of material; rules, coaching.

Prerequisite: Physical Education 212.

Text-book: Daugherty and Wilson, *First and Ten,* (Brown Co.).

One hour per day, July 26-August 15, inclusive—1 unit.

Mr. Gnup.

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 3-July 24, inclusive—1 unit.

Mr. Hindmarch.

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: Doherty, *Modern Track and Field,* (Prentice-Hall, 1957).

One hour per day, July 3-July 24, inclusive—1 unit.

Mr. Mullins.

462. Health II.

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

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

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

One hour per day, July 3-August 15, inclusive—1½ units.

Mr. Whittle.

PHYSICS

Note: It is proposed to offer senior courses according to the following schedule: 1962 — Physics 300 and 400; 1963 — Physics 308; 1964 — Physics 300 and 400.

101. Elementary Physics.

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

Students who do not have Physics 91 may take this course, 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).

Prerequisite: Psychology 100 or equivalent.

Ten hours lectures a week—3 units.

Mr. Sampson.

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.

Prerequisite: Psychology 206.

Text-book: Goodenough and Tyler, *Developmental Psychology*, (1960).

Ten hours lectures a week—3 units.

Miss Banham.

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.

Prerequisite: Psychology 206.

Ten hours lectures a week—3 units.

Mr. Argyle.

403. Tests and Measurement.

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

Prerequisite: Psychology 206.

Text-book: Cronbach, *Essentials of Psychological Testing*, (Harper, Second Edition).

Ten hours lectures a week—3 units.

Mr. Kenny.

RUSSIAN

100. Basic Russian.

First course in the Russian language.

Text-book: Gronicka, *Essentials of Russian*, (Prentice-Hall Inc., Fourth Edition).

Ten hours lectures a week—3 units.

Mr. Solecki.

200. Russian.

Second course in the Russian language.

Limited to 20 students.

Prerequisite: Russian 100 or 101 or instructor's permission.

Text-book: Unbegaun, *Russian Grammar*, (Oxford).

Ten hours lectures a week—3 units.

Mr. St. Clair-Sobell.

300. Nineteenth and Twentieth Century Russian Literature.

Reading in Russian of selected works of Pushkin, Lermontov, Gogol, Tolstoy, Dostoyevsky, Turgenev, Gorky. Translation of selected texts from English into Russian.

Limited to 20 students.

Prerequisite: Russian 200 or 203.

Pre-reading required: Stanislavski: *My Life in Art.* Students will be asked to write a report on this text.

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

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

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

Mr. Thorne, Mrs. de Branscoville.

301. Children's Theatre.

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

For credit only in the Faculty of Education.

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

Limited to 30 students.

Text-book: Slade, *An Introduction to Child Drama,* (University of London 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, Germany, Russia, U.S.A., etc.) since 1700, with emphasis upon the twentieth century. The course deals with the various aspects of theatre (plays and dramatic theory, acting and directing, scenic design and theatre architecture) and their relations to the main social, philosophical and artistic movements of Modern Europe.

For credit in the Faculty of Arts and Science.

Limited to 50 students.

Prerequisite: Theatre 200 or equivalent.

Ten hours lectures a week—3 units.

Mr. Soule.

ZOOLOGY

105. General Zoology.

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

***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, Third Edition).

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

Mr. Ford.

202. Vertebrate Zoology.

Comparative anatomy; evolution and phylogeny of vertebrates; dissection of representative forms.

Limited to 32 students.

Prerequisite: Zoology 105 or equivalent.

Text-books: Romer, A shorter version of *The Vertebrate Body,* (Saunders); Harrison, *Manual of Comparative Anatomy,* (Mosby).

DEPARTMENT OF UNIVERSITY EXTENSION

SUMMER SCHOOL OF THE ARTS

July 3 to August 17

For many years the Summer School of the Arts at the University of British Columbia has been a centre of activity for all the arts. During the past decade particularly, the Summer School has developed into an important influence in the cultural life of the Canadian west through a steadily increasing programme of training, experiment and production. Its unique climate of creative congeniality has held a strong attraction for outstanding instructors, and in this artistic climate students have found the kind of opportunity and stimulating experience that prepares them for participation and leadership in various areas of the arts.

This year's Summer School will offer, as in the past, comprehensive training in Theatre with a roster of instructors which includes Dr. F. R. Hodge, Dorothy Somerset, Freda de Branscoville and Sydney Risk. Courses in painting, drawing, ceramics and sculpture will include Tony Urquhart, Takao Tanabe and John Reeve among their teachers.

For the third successive year, a three-week High School Band and Orchestra Workshop will be presented in co-operation with the U.B.C. Department of Music under the direction of Hans-Karl Piltz. A new type of Opera Workshop, directed by French Tickner, University of Southern California, will emphasize the "stage arts" so essential to the careers of aspiring opera singers.

The Summer School of Dance, now in its fourth year, will provide expert instruction in contemporary dance under the guidance of the noted American teacher and choreographer, Joseph Gifford, assisted by Harriet Berg, Douglas Talney and Takao Tanabe.

Many special events will be presented during the Summer Session, and a continuing close liaison is provided with the Vancouver International Festival which offers unusual opportunities to students and instructors to enjoy and profit from performances by artists from all over the world.

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 Vancouver Festival Society, the Summer Session Association and many others. Information will be furnished upon request, and 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 22.

STAFF

Theatre

FRANCIS R. HODGE, M.A., Ph.D., Guest Director.
DOROTHY SOMERSET, A.B., Director of Summer School of Theatre.

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.

Of special interest to teachers will be the one-week Evening Workshop to be conducted by Miss Maisie Cobby, Senior Inspector of Spoken English and Drama for the London County Council.

STAFF

FRANCIS R. HODGE, M.A., Ph.D. (Cornell). Dr. Hodge, who will be paying his first visit to the University of British Columbia, is Associate Professor of Drama at the University of Texas. The Summer School of Theatre will have the benefit of his extensive experience in directing, writing and teaching in theatre and its related arts. In 1960 Dr. Hodge was guest director at the Colorado Shakespeare Festival, and in 1961 he taught at the Banff School of Fine Arts.

DOROTHY SOMERSET, A.B. (Radcliffe). Director and founder of the Summer School of Theatre. Producer, director and teacher, Miss Somerset has participated actively in the development of many aspects of Canadian theatre.

DONALD SOULE, Ph.D. (Stanford). Assistant Professor and Acting Head of the Department of Theatre. Director, designer and playwright, Dr. Soule managed and directed his own repertory and touring companies in Wisconsin before coming to the University of British Columbia.

SYDNEY RISK, M.A. (Cornell). Associate Director, Summer School of Theatre. Field Supervisor of Drama for the Department of University Extension, Mr. Risk has returned recently from an eighteen month trip around the world during which he studied theatre in many countries.

JOHN BROCKINGTON, B.A. (British Columbia). Assistant Professor of Theatre. Returning to his native Vancouver from Yale University School of Drama, Mr. Brockington—director, actor and musician—joined the Department of Theatre in the autumn of 1961.

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.

NORMAN YOUNG, B.A. (British Columbia). Technical Director and Lecturer. Prior to his appointment to the Department of Theatre, Mr. Young was Staging Supervisor-Design Director for the Canadian Broadcasting Corporation in Ottawa. He also served for three years as stage-manager and production manager for the Vancouver International Festival.

JESSIE RICHARDSON. After a year's absence, during which she visited theatres in many parts of Europe, Mrs. Richardson returns to direct 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 the Holiday Theatre and a member of the Executive Committee of the Dominion Drama Festival.

IAN THORNE, L.R.A.M., L.G.S.M. One of Canada's most versatile and accomplished theatre artists, Mr. Thorne is widely known as director, actor, playwright and teacher.

FREDA M. DE BRANSCOVILLE, F.T.C.L., A.T.C.M. Before taking up residence in Edmonton, where for the last five years she has taught speech for the Departments 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. She returns to the Summer School of Theatre after an absence of some years.

GERALDINE RICHARDSON. Well known in Vancouver for her contribution in the realm of theatrical costuming, particularly with the Holiday

improvised dialogue and movement, and (b) participate in the preparation of a short play for children.

Ten hours a week.

Miss Stevenson.

Stagecrafts:

Practical workshop classes, including scene construction and painting, costume and make-up. Students will participate in staging, lighting, and costuming the performances produced in the final weeks of the School.

Ten hours a week.

Mr. Young, Mrs. Richardson, Mr. Risk and staff.

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.

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.

Personal Interviews and Examinations:

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

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

Time Table (Subject to change):

Junior Division

8.30 a.m. — 9.20 a.m.	Speech I (Section A)
9.30 a.m. — 10.20 a.m.	Acting I (Section A)
8.30 a.m. — 10.20 a.m.	Stagecrafts (Section B)
10.30 a.m. — 11.20 a.m.	Acting I (Section B)
11.30 a.m. — 12.20 p.m.	Speech I (Section B)
10.30 a.m. — 12.20 p.m.	Stagecrafts (Section A)
1.30 p.m. — 2.30 p.m.	Study Period
2.45 p.m. — 5.20 p.m.	*Rehearsals

Senior Division

8.30 a.m. — 10.20 a.m.	Directing
10.30 a.m. — 12.20 p.m.	Acting II; Speech II (These classes are divided into two sections to avoid conflict.)
1.30 p.m. — 2.30 p.m.	Study Period
2.45 p.m. — 5.20 p.m.	*Rehearsals
1.30 p.m. — 3.30 p.m.	Children's Theatre

*Additional evening and week-end rehearsals will be called at the discretion of the directors.

Stage Movement Classes:

Times to be announced at opening meeting of School.

Theatre History:

Dates of noon-hour lectures to be announced at opening of school.

Opening Meeting of the School:

Tuesday, July 3, at 10:00 a.m. in the University Auditorium. (All students required to attend.)

SUMMER SCHOOL OF MUSIC

July 5 to August 10

The Department of University Extension, in co-operation with the U.B.C. Department of Music, will offer an extensive music programme comprising an Opera Workshop and a High School Band and Orchestra Workshop.

OPERA WORKSHOP

July 9 to August 10

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, fencing, stage movement, with a survey of the changing operatic styles from the 18th century to the present day. Studio scenes will be presented in the Music Building and the Frederic Wood Theatre to permit the students to receive stage experience under controlled conditions.

Director: French Tickner. Drama Coach, Stage Make-up Instructor, Department of Drama, and Stage Director, Opera Theatre, University of Southern California, and Assistant Director of 1961 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", "Wozzeck", "Salome", "The Medium", and "Falstaff".

Coach-Accompanist: Winona Denyes.

Monday through Friday.

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

Place: Music Building.

Fee: $25.00.

Summer Session Association Fee: $2.00.

Enrollment in this course is limited; auditions will be held in the Music Building during the week prior to the opening class.

Scholarships and Bursaries:

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

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

HIGH SCHOOL BAND AND ORCHESTRA WORKSHOP

July 5 to July 25

Hans-Karl Piltz, B.A., M.M. — Director of the High School Band and Orchestra Workshop, Assistant Professor of Music, University of British Columbia, 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.

STAFF

HANS-KARL PILTZ: Workshop Director.
SAMUEL DAVIS: Trumpet, French Horn.
CORTLAND HULTBERG: Oboe and Bassoon.
DOUGLAS TALNEY: Cello and String Bass.

STAFF

PAINTING: TONY URQUHART. This brilliant young Canadian artist studied in Canada, U.S.A., and Europe under Drumlevitch, Elliott, Calcagho and Peterdi, and since 1958 has taught at universities and schools in Ontario and New York State. For the past year he has been Artist in Residence at the University of Western Ontario. Among the many regional and national shows in which his works have been featured was the "Eight Ontario Artists" exhibition displayed at the 1961 Vancouver International Festival.

DRAWING: TAKAO TANABE. Born in Prince Rupert, B.C., Mr. Tanabe studied in Winnipeg, Banff and New York before continuing his training in London in 1954. For 18 months during 1959/60 he studied in Japan under a Canada Council fellowship. His successes in exhibitions throughout Canada, Japan, South America and Europe have made him one of the best-known of the West Coast painters.

ADVANCED CERAMICS: JOHN REEVE. A graduate of the Vancouver School of Art in drawing, painting and ceramics, Mr. Reeve studied pottery with Colin Pearson at the Anglesford Pottery, Kent, England, and then spent two years with the great master potter, Bernard Leach, at his St. Ives, Cornwall, studios. Since his return to Canada in the spring of 1961, he has been employed by the U.B.C. Department of University Extension, first as Guest Ceramicist during the 1961 Summer School, and then as Staff Ceramicist on campus and on tour throughout British Columbia.

CERAMICS FOR BEGINNERS: 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 in the Exhibition of B.C. Potters, the Guild Exhibition, Canadian Ceramics, and the Canadian Handicraft Annual. For several years she has been an instructor in the U.B.C. Department of University Extension's ceramics classes.

SCULPTURE: To be announced. The instructor will be one of the younger British sculptors.

Pre-Registration for each of the Visual Arts courses is advised since enrollment is limited.

PAINTER'S STUDIO: July 16-August 10.

These courses will provide practical opportunity for work from life, still life and landscape, and will bring the student into contact with the ideas and stimuli of painting in all its aspects.

Section A: for advanced students.

Monday through Friday.

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

Section B: for less advanced students and beginners.

Monday through Friday.

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

Place: Painting Studio, Hut 80, Acadia Camp.

Fee: $35.00 for each section, including model's fee.

Summer Session Association Fee: $2.00.

Instructor: Tony Urquhart.

DRAWING: July 4-August 10.

A course in the fundamental drawing principles and processes in which the plane will be stressed as the foundation, with line an auxiliary to it. The aim is to establish a sound approach which will aid the painter in his search for form in his environment. The use of plane, line, and tone will be studied as a means of achieving shape, character, volume, structure, tonal organization and space relationships. Source material will include still life, landscape and the figure.

provide a stimulating educational experience. Emphasis will not be placed on the development of particular skills as such, but rather on a wide introduction to art experience. Classes will be held in the Child Art Demonstration and Research Centre, designed and constructed as a joint project of the Department of University Extension and the Faculty of Education.

Ages 6- 9: Monday and Wednesday, 10:30 a.m.-12:30 p.m.

Ages 9-13: Tuesday and Thursday, 10:30 a.m.-12:30 p.m.

All classes to be held in the Children's Studio, Child Study Centre, Acadia Camp, University campus.

Mr. Dobereiner, Mr. Thomas.

Fee: $12.00.

SCHOLARSHIPS AND BURSARIES.

A limited number of scholarships and bursaries will be available. Applications 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.

SUMMER SCHOOL OF DANCE

July 3 to August 10

The Summer School of Dance, now in its fourth year, will provide an opportunity for students of contemporary dance to take part in a creatively experimental programme designed to integrate the study of dance with the related arts of music and design.

The course will be divided into two main sections:

Workshop I, in which the emphasis is placed on resource material in movement, music and design.

Workshop II, in which the material studied in the other section is developed and applied to problems in dance composition.

STAFF

JOSEPH GIFFORD, B.A. Guest Director. As choreographer and performer, this noted American dancer has been featured at the Mansfield and Ziegfield Theatres on Broadway; in the musicals, "Sing Out Sweet Land" and "Up In Central Park"; at the New York City Centre Opera Company, and on CBS-TV. During the past 15 years Mr. Gifford has attained a leading position as teacher of contemporary dance at universities and summer schools throughout the United States and at the present time is Assistant Professor of Dance, Boston University.

HARRIET BERG. Assistant to Mr. Gifford, and a member of the faculty of Wayne State University, Detroit.

HARRY LOCKE. Music Instructor, West Vancouver High School and well-known local composer.

TAKAO TANABE. Design.

DOUGLAS TALNEY. Music.

HELEN GOODWIN, Lecturer in Dance, UBC School of Physical Education, and co-ordinator, Summer School of Dance.

COURSES

WORKSHOP I

A. ELEMENTS OF DANCE

In this course improvisation will be used as the chief method of exploring the many aspects of movement, thus provoking the student into a greater awareness of what constitutes the essence of communicative movement.

Time: Monday through Friday, 8:30 to 10:00 a.m.

Students interested in obtaining credit for the above course (either B.D.E. or B.Ed. degree) should apply directly to the Director of the School of Physical Education and Recreation. Registration must be completed by June 1 through the Registrar's Office.

SCHOLARSHIPS AND BURSARIES

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

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

SUMMER SCHOOL ON PUBLIC AFFAIRS AND SPECIAL PROGRAMMES 1962

A number of lectures, seminars, workshops and conferences will take place during July and August in the fields of Public Affairs, Arts, Education, Communications and Pre-school Education.

PUBLIC AFFAIRS

The fourth annual Summer School on Public Affairs will be held in July and will present seminars and lectures in the fields of national and international affairs.

The first seminar of the Summer School will take place in the afternoons and evenings of the first week of the Summer Session at the University (July 3 to July 6) and will concern itself with French Canada.

The second event will be an "East/West Dialogue" which is being presented in conjunction with the Summer School of the Arts and will run as an all-day programme from July 9 to July 13. Oriental and Occidental representatives in various fields of human endeavour will be brought together to outline their approaches to factors that have given rise to their respective patterns of culture and society and will cover such practical matters as design; the development of architecture and the social structure; the impact of differing concepts of value and ethics on the society as a whole and on the individual's view of the world. This is an attempt to understand some of the motivating forces and ideals in other cultures in our shrinking world.

The third event, closely related to the foregoing, will be a seminar on a group of countries in Western Asia covering an area which is more commonly known as the Middle East. This seminar will be along the lines of the major international seminars offered by the Summer School on Public Affairs over the past years, bringing to the campus representatives of the countries concerned, the Department of External Affairs, and recognized academic resource people in this area.

Paralleling the "Middle East Seminar" will be a seminar devoted to the cultures of the Orient and the Occident and their interaction on each other. Authorities on calligraphy, music, dance, design and architecture of both world areas will be presented in a series of lecture-discussions as a natural development of the preceding week of the "East/West Dialogue".

These latter two seminars will be held as all day programmes from July 16 to July 20 and will be open to all persons attending the "East/West Dialogue", in whole or in part, or to those who apply before June 1 to the Department of University Extension.

All the foregoing seminars will be held in the New Fine Arts Building.

During the month of July there will be Public Affairs Evening Lectures beginning July 3 and running through to July 31, to be 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 two will deal with topics of a more general nature.

will gain some understanding of what is involved in guidance work, and will be stimulated to undertake the programme required for full counsellor qualification.

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 sixth year.

These will be practical non-credit courses related to new developments in ARITHMETIC and MATHEMATICS. Lectures, demonstrations, and group discussions will be used.

Registration will be limited to ensure the full participation of the course members.

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. They will be held in the first part of July (specific times, dates and places available in due course).

Workshop: Teaching Methods in Modern Arithmetic (Cuisenaire Method).

Workshop: Preparations for Teaching the New (1962-63) B.C. Course in Grade Three Arithemtic (Mr. G. R. Gravlin, Principal, Marlborough Elementary School).

Workshop: Preparations for Teaching the New (1962-63) B.C. Course in Grade Eight Mathematics (Mr. Lloyd Costley, Secondary Supervisor, Burnaby).

PRE-SCHOOL EDUCATION PROGRAMME
TEACHER-TRAINING AND KINDERGARTEN CENTRES

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

July 9-27.

Monday to Friday, 9:00 a.m. to 3:00 p.m.

Fee: $35.00. Since registration must be limited, applications should be received before June 1, 1962.

This course is designed to provide instruction, demonstration and practice 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. Students who have high school graduation standing will receive a certificate on successful completion of the course. This certificate will be recognized by the Welfare Institutions Board of the B.C. Department of Social Welfare. This course is also correlated with the correspondence course, "Child Development and Pre-School Education", offered by the Department of University Extension.

ARTS AND CRAFTS FOR PRE-SCHOOL CHILDREN.

July 30-August 10.

For pre-school teachers on all phases of art activity at the pre-school level. The philosophy and developmental pattern of child art will be discussed. Workshops will be held on Painting, Clay, Crayons, Paper Construction techniques, Puppets, Murals, 3-dimensional Construction, Print-making, Mosaics and other art activities.

Sessions: 9:00 a.m. to 12 noon Monday, July 30, through Friday, August 10.

Fee: $12.00.

MUSIC AND RHYTHMS FOR PRE-SCHOOL CHILDREN.

July 30 to August 10.

Details of these courses will be available by March 31 and may be obtained by writing or calling:

Communications Programme,
Department of University Extension,
University of British Columbia,
Vancouver 8, B.C.
Telephone: CA 4-1111 local 538.

FESTIVAL PREVIEW

Mr. Nathan Cohen, well-known Canadian drama critic, television and newspaper personality, will conduct a series of noon-hour interviews with visiting artists of the Vancouver International Festival and Faculty Members in the Fine Arts and Humanities. The interviews are planned to increase the enjoyment and understanding of Festival events in addition to presenting a comparative study of music, drama, films, literature, dance and the visual arts.

These events, sponsored jointly by the Summer School of the Arts and the Summer Session Association will be open to all Summer School students and to the general public. They will be held in Room 106 of the Buchanan Building on Monday, Tuesday and Thursday at 12:30 p.m. from July 16 to August 2.

FIFTH ANNUAL VANCOUVER INTERNATIONAL FESTIVAL
July 16 — August 18

Five weeks of symphony, opera, drama, internationally acclaimed stage and concert artists, films and exhibitions in the largest and most important arts festival of its kind in North America.

JULY 16-JULY 28

The Vancouver International Film Festival, Vogue Theatre. Four hundred film entries from at least 25 countries.

JULY 20-AUGUST 18

The Arts Festival, in the Queen Elizabeth Theatre and the Queen Elizabeth Playhouse.

INCLUDING:

- A spectacular new production of Mozart's "The Magic Flute".
- "The Bayanihan Philippine Dance Company"—over fifty dancers, singers and instrumentalists from Manila present an exhilarating cross-section of the dances, songs and music of this melting-pot of the East.
- The world-renowned two-piano team of Vronsky and Babin.
- The 375-voice Mormon Tabernacle Choir.
- The return of the internationally acclaimed conductor Zubin Mehta.
- Other artists and events to be announced.

For further information on the 1962 Vancouver International Festival, and the privileges of membership in the Vancouver Festival Society, write or telephone the Vancouver Festival Society, 570 Dunsmuir Street, Vancouver 2, B.C. MU tual 3-3395.

Mail order ticket sales open June 1 . . . wicket sales June 15.

SUMMER SESSION

UNIVERSITY OF BRITISH COLUMBIA

JULY 3 TO AUGUST 17, 1962