SUMMER SESSION

UNIVERSITY OF BRITISH COLUMBIA

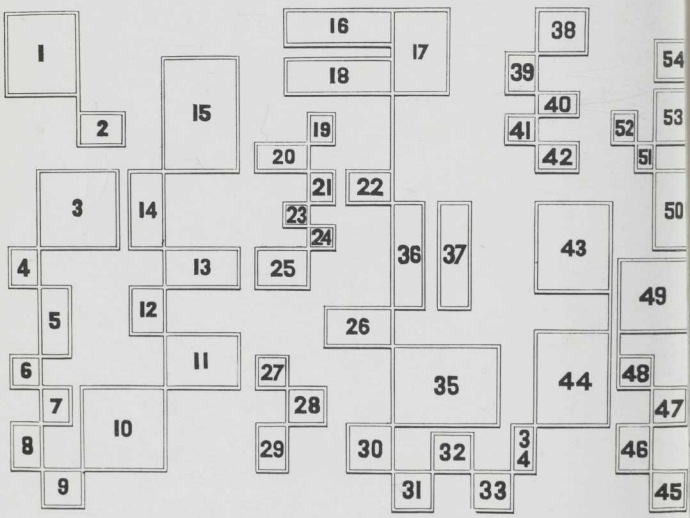
JULY 3 TO AUGUST 18, 1961

KEY TO BROCK HALL MURAL

The graduating class of 1958 commissioned Lionel Thomas, one of Canada's most distinguishe artists and a member of the staff of the school of architecture, to execute a mural as the graduating gift to the University.

A symbol for each of the disciplines taught at the University was chosen by Mr. Thoma and his wife, Patricia, who helped to execute the mural. In each panel there is a relationshi between the colours employed and the symbol used to denote the discipline. The work, whic took two years to complete, hangs on the courtyard wall of the extension to Brock Hall. Th mural has been executed in Byzantine mosaic—small pieces of coloured glass inlaid in cement.

1. Forestry
2. Forest engineering
3. Faculty of Law
4. Proposed Faculty of Dentistry
5. Faculty of Pharmacy
6. Zoology
7. Entomology
8. General zoology
9. Ornithology
10. Biological sciences
11. Geography and geology
12. Psychiatry
13. Bacteriology and immunology
14. Faculty of Medicine
15. Departments of the Faculty of Medicine
16. Music
17. Mathematics
18. Religion
19. Slavonic studies
20. Faculty of Education
21. German
22. Oceanography
23. English
24. French
25. Romance studies
26. Faculty of Applied Science
27. Sociology
28. Anthropology
29. Criminology
30. Electrical engineering
31. Mechanical engineering and industrial agriculture
32. Mining
33. Metallurgy
34. Mechanical engineering
35. Chemistry and chemical engineering
36. Classics
37. Fine arts
38. Political science and economics
39. History
40. Asian studies
41. International studies
42. Drama
43. Physics
44. Faculty of Agriculture
45. Home economics
46. Institute of fisheries
47. Social work
48. Nursing
49. Commerce
50. Architecture
51. Philosophy
52. Psychology
53. Physical education
54. Town planning



Due to space limitations a few of the symbols on the extreme right of the photograph have been excluded. The complete key is shown above.

Greater detail regarding the meaning of the symbols may be found in the U.B.C. Alumni Chronicle, winter issue, 1960.

PUBLICATIONS OF THE UNIVERSITY OF BRITISH COLUMBIA

Announcement of The Summer Session

SUPPLEMENT TO CALENDAR 1960-61

Forty-second Session: JULY 3 to AUGUST 18, 1961

The University of British Columbia

VANCOUVER 8, CANADA

Vol. 46, GENERAL SERIES No. 3

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SUMMER SESSION, 1961

DATES

MAY 1	Monday	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	Thursday	Last day for registration without late penalty.
JULY 3	Monday	*Last permissible day for registration and for changes in students' courses. Lectures begin at 8:15 a.m.
4	Tuesday	Summer Session Supplemental Examinations for 1960 will be held in the Law Building at 9:00 a.m. *All changes in registration for courses must be reported to the Registrar's Office by this date.*
6	Thursday	General Meeting, Summer Session Association, Auditorium, 11:30 a.m. Lectures and laboratories cancelled, 11:25 a.m.
10	Monday	First of series of Library Instruction Lectures Bu.106 at 8:15, 10:25, 1:30. Series continues Tues. and Wed. at same hours.
AUGUST 10	Thursday	General Meeting, Summer Session Association, Buchanan 106, 11:30 a.m. Lectures and laboratories cancelled, 11:25 a.m.
16	Wednesday	Last day of lectures.
17	Thursday	Final Examinations. There will be three examination periods each day, the third commencing in the late afternoon.
18	Friday	

*The last day for registration is July 3—the first day of lectures. Courses may 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 regis-

tered. A late registration fee of $5.00 will be assessed all students registering after June 1.

The schedule of student activities sponsored by the Summer Session Association is given on page 17.

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

TIME TABLE OF LECTURES, CREDIT COURSES

Monday to Friday Inclusive

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

Course

Chemistry 101
Chemistry 205
Chemistry 300
Commerce 90
Commerce 371
Economics 200
Education 307
Education 309, Section A
Education 331, Section 1
Education 333
Education 365
Education 400, Section 1
Education 401
Education 404 (H.E.)
Demonstration School, Section 1
Education 404 (Music)
Education 404 (P.E.) 8:15-9:10
Education 405, Section 1
Education 408
Education 410
Education 417
Education 419
Education 420
Education 490
Education 514
Education 523
Education 530
Education 535
Education 558
Education 565 (French)
Education 581 (8:15-9:20)
Education 582 (9:25-10:10)
English 100, Section A
English 200, Section A
English 202
English 300, Section A
English 301, Section 1
English 406
English 425
English 430
English 515

Course

Fine Arts 101
Fine Arts 300
Fine Arts 401
Fine Arts 402
French 110/120
French 210, Section 1
Geography 101, Section 1
Geography 101 Laboratory
Geography 302
Geography 303, Section 1
German 303
History 304
History 318
Home Economics 105
Home Economics 201 - 310
Latin 110/120, 210/220, 407, 530
Mathematics 101, Section 1
Mathematics 202, Section 1
Mathematics 205
Mathematics 300
Music 401
Philosophy 415
Physical Education 101, 9:15-10:10 (July 3 - August 10)
Physical Education 210, 8:15-9:10 (July 26 - August 16)
Physical Education 250, 8:15-9:10 (July 3 - July 24)
Physical Education 301, 9:15-10:10 (July 3 - August 16)
Physical Education 310, 8:15-9:10 (July 3 - July 24)
Physics 101
Physics 308
Psychology 100
Russian 100
Sociology 200
Spanish 110/120
Theatre 300
Zoology 303

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

Chemistry 304/5
Classical Studies 331
Classical Studies 433
Commerce 101
Commerce 201
Commerce 376
Economics 300
Education 309, Section B
Education 331, Section 2
Education 332
Education 365 Laboratory
Education 404 (English) (8:15-9:10)
Education 404 (English) (9:15-10:10)

Course	*Course*
Education 404 (Geography and Social Studies) (8:15-9:10)	German 110/120
Education 404 (History and Social Studies) (9:15-10:10)	German 301
Education 404 (H.E.) Demonstration School, Section 2	History 201
Education 405, Section 2	History 400
Education 407	Home Economics 300
Education 411	Linguistics 319
Education 414	Mathematics 306
Education 415	Mathematics 412
Education 461, Section 1	Music 120
Education 470	Music 201
Education 517	Music 303
Education 519	Philosophy 300
Education 533	Physical Education 213, 10:25-11:20 (July 3 - July 24)
Education 556	Physical Education 216, 10:25-11:20 (July 3 - July 24)
Education 560	Physical Education 218, 10:25-11:20 (July 26 - August 16)
Education 565 (Physics)	Physical Education 230, 12:30-1:25 (July 3 - July 24)
Education 565 (French) Laboratory	Physical Education 251, 11:25-12:20 (July 3 - July 24)
Education 578	Physical Education 361, 11:25-12:20 (July 3 - August 16)
English 100, Section B	Physical Education 460, 10:25-11:20 (July 3 - August 16)
English 200, Section B	Physics 200
English 300, Section B	Physics 400
English 301, Section 2	Political Science 301
English 412	Psychology 305
English 432	Psychology 405
English 435	Psychology 410
Fine Arts 225	Russian 200
Fine Arts 300 Laboratory	Russian 300
Fine Arts 301	Sociology 440
Fine Arts 401 Laboratory	Spanish 90
Fine Arts 402 Laboratory	Theatre 300
French 210, Section 2	Zoology 105
French 300	
Geography 101 Laboratory	
Geography 303, Section 2	
Geography 307	
Geography 406	

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

Anthropology 200	Education 416
Bacteriology 100	Education 461, Section 2
Biology 105	Education 564
Botany 331	Education 565 (Physics Laboratory)
Chemistry 101 Laboratory	Education 565 (French Laboratory)
Chemistry 205 Laboratory	Education 565 (Geography)
Chemistry 300 Laboratory	English 100, Section C
Chemistry 304 Laboratory	English 200, Section C
Commerce 151	English 300, Section C
Commerce 252	English 301, Section 3
Commerce 391	English 400
Education 305	English 429
Education 331, Section 3	English 433
Education 365 Laboratory	Fine Arts 301 Laboratory
Education 390	French 220
Education 400, Section 2	French 301
Education 404 (Art)	Geography 101, Section 2
Education 404 (H.E.), Section 1, Tues. and Thurs.	Geography 101 Laboratory
	Geography 410
Education 404 (H.E.), Section 2, Mon., Wed., and Fri.	Geology 412
	German 90
Education 404 (Science)	German 200

Course
History 102
History 310
Home Economics 105 Laboratory
Section 1, Monday, Wednesday
Section 2, Tuesday, Thursday
Home Economics 201-310 Laboratory
Section 1, Tuesday, Thursday
Section 2, Wednesday, Friday
Home Economics 300 Laboratory
Section 1, Monday, Wednesday
Section 2, Tuesday, Thursday
Mathematics 101, Section 2
Mathematics 202, Section 2
Mathematics 203
Mathematics 308
Music 101
Music 302
Music 326
Philosophy 100
Physical Education 140, 1:30-2:25
(July 3 - July 24)

Course
Physical Education 221, 1:30-2:25
(July 26 - August 16)
Physical Education 240, 2:30-3:25
(July 3 - July 24)
Physical Education 242, 2:30-3:25
(July 26 - August 16)
Physical Education 360, 1:30-2:25
(July 3 - August 16)
Physical Education 470, 2:30-3:25
(July 3 - August 16)
Physics 101 Laboratory
Physics 200 Laboratory
Physics 308 Laboratory
Political Science 201
Psychology 201
Psychology 301
Theatre 301
Zoology 105 Laboratory
Zoology 303 Laboratory

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

Bacteriology 100 Laboratory
Biology 105 Laboratory
Botany 331 Laboratory
Chemistry 101 Laboratory
Chemistry 205 Laboratory
Chemistry 300 Laboratory
Chemistry 304 Laboratory
Education 305 Laboratory
Education 404 (H.E.) Section 1, Mon.
Geography 101 Laboratory
Geography 302 Laboratory
Geology 412 Laboratory
Home Economics 105 Laboratory
Home Economics 201-310 Laboratory
Physical Education 209, 3:30-4:25
(July 26 - August 16)
Physical Education 219, 3:30-4:25
(July 3 - July 24)
Physical Education 229, 3:30-4:25
(July 26 - August 16)
Physical Education 243, 3:30-4:25
(July 3 - July 24)
Physics 200 Laboratory
Physics 308 Laboratory
Zoology 303 Laboratory

NOTES:

Art Laboratories

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

Home Economics

Demonstration School will be held in University Hill High School, 2896 Acadia Road.

Industrial Arts

See page 25.

Examination Schedule

8:30 a.m., Thursday, August 17—courses in which lectures scheduled during session in period 8:15 - 10:10 a.m.

12:00 noon, Thursday, August 17—English 100, English 200, English 300.

3:30 p.m., Thursday, August 17—courses scheduled in lecture period 1:30 - 3:30 p.m.

8:30 a.m., Friday, August 18—courses scheduled in lecture period 10:25 a.m. - 12:20 p.m.

12:00 noon and 3:00 p.m., Friday, August 18 reserved for examinations as needed to meet special requirements.

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PHYSICAL EDUCATION

MISS HELEN ECKERT, B.Ed., M.Ed., Instructor.
M. L. HOWELL, Dip. in Phys.Ed., M.A., Ed.D., Assistant Professor.
ALBERT B. LAITHWAITE, Dip. in Phys.Ed., Assistant Professor.
ROBERT F. OSBORNE, B.A., B.Ed., Professor and Director of the School.
MRS. MARIAN PENNEY, B.A., A.M., Associate Professor.
R. J. PHILLIPS, Instructor.
JACK B. POMFRET, B.A., Assistant Professor.
MISS BARBARA SCHRODT, B.P.E., M.S., Instructor.
MISS MEARNIE SUMMERS, B.P.E., Lord Byng High School.
MISS ANNE D. TILLEY, Dip. in Phys.Ed., B.A., Instructor.
GRANT VINCENT, Lecturer.
H. D. WHITTLE, B.P.H.E., M.S., Ph.D., Associate Professor.

PHYSICS

N. BARTON, M.A., Instructor.
A. M. CROOKER, B.A., M.A., Ph.D., Professor.
ROY NODWELL, B.Sc., M.A.Sc., Ph.D., Assistant Professor.
JIRI J. VEIT, B.Sc., M.Sc., Ph.D., Instructor.

POLITICAL SCIENCE

JEAN A. LAPONCE, Dipl. I.E.P., Ph.D., Assistant Professor.

PSYCHOLOGY

E. S. W. BELYEA, M.A., Associate Professor.
D. C. FRASER, B.Sc., M.A., M.Sc., Ph.D., Assistant Professor.
DOUGLAS T. KENNY, Ph.D., Associate Professor.

D. C. G. MacKAY, M.A., Ph.D., Associate Professor.
D. L. SAMPSON, M.A., Ph.D., Assistant Professor.
E. I. SIGNORI, B.A., M.A., Ph.D., Professor.

RUSSIAN

JAMES O. ST. CLAIR-SOBELL, B.A., Ph.D., Professor and Head of the Department.
J. SOLECKI, B.Com., Lecturer.
MISS IRINA M. CARLSEN, B.A., M.A., Instructor.

SOCIOLOGY

HUBERT GUINDON, M.A., Assistant Professor, University of Montreal.
ANTHONY RICHMOND, B.Sc., M.A., Lecturer, University of Edinburgh, Visiting Lecturer, Department of Sociology.

SPANISH

TOMAS BARTROLI, M.A., Instructor.
J. A. McDONALD, M.A., Assistant Professor.

THEATRE

MISS BETTY GEMMILL, Teacher of Singing and Speech, Toronto.
MISS JANIE STEVENSON, L.R.A.M., L.G.S.M., A.L.A.M., Instructor.
IAN THORNE, L.R.A.M., L.G.S.M., Vancouver.

ZOOLOGY

W. S. HOAR, B.A., M.A., Ph.D., F.R.S.C., Professor.

Admission, Registration and Attendance

CREDIT COURSES

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

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

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

1. Application:

(a) Students registering in the University for the first time:
Obtain from the Registrar's Office an *Application for Admission* form. Return this, duly completed, together with certified copies of ALL University Entrance Certificates and any higher certificates possessed not later than May 1. School teachers taking courses for credit either toward a university degree or toward teacher certification must present official transcripts of their matriculation standing, of their professional training and of any university work already completed. British Columbia teachers must, in addition, request the Registrar, Department of Education, Victoria, B.C., to forward to the Registrar of the University a "transfer of credit" statement certifying

their status as teachers in this province, *if this has not been done previously;* this statement should be requested early in order that it may reach the University by May 1.

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

(c) Those who have completed work through the Victoria College must arrange to have a transcript forwarded to the University.

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, 1961.

(c) All registrants who have not completed registration by June 1 will be assessed the late registration penalty of $5.00; no registration will be accepted after July 3.

(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 a late fee penalty and issued the "Library and Identification" card on payment of fees in full including the late fee of $5.00.

Regulations Governing Credit Courses:

1. **The maximum credit for Summer Session work in any one calendar year is 6 units.**
2. **Credit will not be given toward the B.A. or B.Sc. degrees for courses in Commerce (except 151 and 371), Education, Home Economics, or Physical Education. In the departments of English, Fine Arts, Music, and Theatre some courses are useful for credit only toward the B.Ed. degree.**
3. **Students must attend regularly the classes in a course for which they register. Those whose unexcused absences from a course exceed one-eighth of its total number of meetings will not be credited with attendance in that course.**
4. **A student will be granted a supplemental examination in a subject which he has taken during the Summer Session provided (i) he has written the final examination and has obtained a mark of not less than 40%, and (ii) he has obtained 3 units of credit in the session. Supplemental examinations for summer session students will be held on the second day of the following summer session. Supplemental privileges will not be granted students who fail the laboratory work of science or industrial arts courses.**

GRADUATION

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

The October Congregation will be held on Thursday, October 26. The names of successful degree candidates will be released following the meeting of the University Senate on October 18.

FEES

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

All fees are due and payable at time of registration.

A fee of $5.00 for "Late Registration" will be charged all students registering for credit courses after June 1.

Scale of Fees

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

For example:

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

NOTE—**No refund will be made for fees after July 12. In the computation of refunds prior to this date an amount equal to one-fifth of the course fees will be charged. Application for a refund must be made to the Accountant within seven days after the student has discontinued his work.**

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 nor to Physical Education or other activity courses.

(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 are reminded that they must register through the Registrar's Office before June 1.

FRENCH SUMMER SCHOOL
L'ÉCOLE FRANÇAISE — 1961

This school is designed for teachers and others who wish to take courses of lectures on French literature and civilization, who feel the need of more instruction in written French, and who wish in particular to gain a practical knowledge of *spoken French*. They should be willing to speak French at all times in the French classrooms where the lectures and seminars are given, and also during certain organized social activities. If Campus facilities permit, a French lunchroom will be arranged, where French-speaking people will supervise and direct conversation in French at the noon-hours.

EDUCATION 565 — French, 3 units (Daily schedule: 2 hours lectures, 1 hour of supervised work in the language laboratory). Pre-requisites: A University degree with at least a Minor in French.

Efforts will be made to adapt Education 565 to the expressed needs of the teachers. The course will include: Lectures in French on French civilization; oral expression — practical phonetics, diction, everyday words and phrases, conversation, discussion, exposés, explication de textes; thèmes; free composition; discussion of teaching problems.

Text-books: Lévêque, *Historie de la civilisation française*. Whitmarsh, *Cours supérieur*. Dictionnaire. Language Laboratory: text to be announced.

Instructors — Dr. Edward A. Bird, Mrs. Geneviève Bird, Miss Sadie Boyles.

EDUCATION 365 — Oral French for Elementary Teachers, 3 units (Daily schedule: 2 hours lectures, one hour of supervised work in the language laboratory). Pre-requisites: French 220, 210 or equivalent.

This course may carry credit as one of the electives for the B.Ed. (Elementary).

This course is designed for people who do not possess the requisite amount of French for Education 565, but who are already teaching French, or who hope to teach French, in the Junior High Schools or the Elementary Schools, and who wish further practice in the subject.

Content: Oral practice, conversation, current expressions, causeries, practical phonetics, diction, explication de textes; grammar, thèmes; free composition; curriculum and instruction for the teaching of French in the Elementary and Junior High Schools. It is likely that an elementary demonstration class will be arranged for a part of the 2 hour period, during 3 of the 7 weeks.

Text-books: Whitmarsh, *Advanced French Course*. Dictionnaire. Other texts to be announced.

Instructors — Dr. Edward A. Bird, Mrs. Geneviève Bird, Miss Sadie Boyles.

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, 1961, 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 Sir Charles Tupper Chapter, I.O.D.E., Bursary

A bursary of $100, the gift of the Sir Charles Tupper Chapter, I.O.D.E., will be awarded annually to a teacher who has taught for two years in the Public Schools of British Columbia and is proceeding with undergraduate work in the summer sessions. The award will be made to a student who intends to return to teaching in the fall. Applicants will be considered on the basis of financial need, and success and interest in teaching. Applications, on forms available from the Dean of Inter-Faculty Affairs, must be received by the University not later than May 31. A copy of the last inspector's report must accompany the application.

The Summer Session Association Scholarships

Four scholarships of $100 each, the gift of the Summer Session Association, will be awarded at the close of the summer session to students who have been

in attendance at the University during that session and have taken six units in courses leading to an undergraduate degree. The terms of award are as follows:

(1) one scholarship will be awarded to the student who completes the Second Year with highest standing and one to the student who completes the same year with second highest standing. To be eligible a candidate must have taken his entire Second Year by means of University of British Columbia summer session, extra-sessional classes, or correspondence courses;

(2) one scholarship will be awarded to the student who completes the Third Year in Education with highest standing. To be eligible an applicant must have taken his entire Third Year by means of University of British Columbia summer sessions, extra-sessional classes, or correspondence courses;

(3) one scholarship will be awarded to the student who completes the Third Year, in any faculty other than Education, with highest standing. To be eligible a candidate must have taken his entire Third Year by means of University of British Columbia summer sessions, extra-sessional classes, or correspondence courses.

The awards will be made only to those students proceeding to a higher year at the University.

All those who wish to be considered for these awards must submit their names to the Dean of Inter-Faculty Affairs before July 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.

The Dr. H. T. J. Coleman Scholarship

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

The Vancouver Elementary School Teachers' Association Prizes

Eight prizes of $50 each, the gift of the Vancouver Elementary School Teachers' Association, are offered annually to teachers who have taken six units of work in the Summer Session of the University of British Columbia and who fulfil the following conditions: (i) they have taught the previous session in Vancouver and were members of VESTA; (ii) they are studying in the Faculty of Arts and Science or the Faculty of Education; (iii) they are in their Third or Fourth Year of study; and (iv) they attain a standard of 80% or over (First Class). The awards will be made to the eight candidates with highest standing. Candidates for these awards must apply in writing to the Dean of Inter-Faculty Affairs at the University not later than August 31.

Gilbert Tucker Memorial Summer Session Prize

An annual prize of $35 is offered by the Summer Session Association in memory of Professor Gilbert Tucker, who served this University as scholar,

historian, and teacher. The award will be made to the student enrolled in a history course in summer session, who, in the opinion of the Department of History, is the most outstanding. It is available for students registered in the Third or a higher year who were not in attendance in the previous winter session.

Scholarships for Summer School of the Arts

For information about scholarships and student assistantships in Theatre, Music and Opera, and Arts and Crafts, see the appropriate sections.

SUMMER SESSION ASSOCIATION

1961 Executive Committee

President - - - - - - - - - Don Ritchie
1st Vice-Pres. - - - - - - - - Julian Fears
2nd Vice-Pres. - - - - - - - - Jack Potter
Secretary - - - - - - - - Frank McPhalen
Treasurer - - - - - - - - - - - Jack Potter
Past-President - - - - Marjorie Niehaus
Social Conv. - - - - - - Marlene Schuler
Athletic Conv. - - - - - - - - Brian Creer
Noon-Hour Conv. - - - - Howard Cross
Resolution Conv. - - - - - Lorne Bolton
Publicity Conv. - - - - - - - - John Heath
Shop Teacher's Rep. - - Stan Derkson
Members-at-Large - - Glyn Hale, Lorna Rowse, Mrs. F. B. Bergman, A. William Lucey, Karen Lange.

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

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

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

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

The office of the Summer Session Association is located in the Brock Memorial Building and contact may be made there any afternoon during the session. Telephone: CAstle 4-3242. Office hours: afternoons.

Social—Activity Schedule

Activities mentioned and others which may be requested on student interest questionnaires will be offered where sufficient interest is shown at the organizational meeting to be held in Arts 100 at 12:20 on Tuesday, July 4. Those interested only in Square Dancing or the S.S.A. Mixer need not attend this meeting. Since these activities are certain to be well attended, no special plans are required. Instruction, equipment and facilities are free except where mentioned.

Activity	*Location*	*Details*
Swimming	Memorial Gym Pool	$2.00 pass required
Diving	Memorial Gym Pool	$2.00 pass required
**Table Tennis	Memorial Gym (Upper Corridor)	Equipment available at Athletic Office
Weightlifting	Memorial Gym	
**Volleyball	Memorial Gym	Gym shoes required
*Badminton	Memorial Gym	Gym shoes required. Racquets for rent $2
*Tennis	Memorial Gym Courts (East)	Racquets for rent $2
Fencing	Women's Gym	
Social Dancing	Memorial Gym (Upper Lobby)	Charge of 25c per session
Square Dancing	Women's Gym or Buchanan Patio	Depending on weather
Golf	McInnes Field	Clubs for instruction only. Balls 10c each
**Softball	Memorial Gym Field	Sign up on Sports Notice Board
S.S.A. Mixer	Brock Hall	

**Recreation only.

*Apply at Athletic Office for equipment. Balls or shuttles available at Club rates.

Activities will commence Wednesday, July 5.

Those interested in applying for positions as instructors for the above activities may do so by writing to the activity convenor, Brian Creer, at 4022 West 27th, Vancouver 8, giving the following information: name, winter and summer addresses, and phone numbers, and an outline of experience. If you are qualified to teach activities not listed, please mention this fact. Rate: $2.50 per one-hour session. All instructors should be present at the organizational meeting on Tuesday, July 4 in Arts 100. Volunteer Recreational Supervisors will be welcomed from each Camp.

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 your lunch.

SOCIAL and ATHLETIC ACTIVITIES

Time	Monday	Tuesday	Wednesday	Thursday	Friday
12:20 to 1:30	Tennis Swimming Golf Social Dancing	Tennis Diving Golf Fencing Softball	Tennis Swimming Golf Volleyball	Tennis Diving Golf Social Dancing Softball	Tennis Swimming Golf Fencing
3:45 to 5:00	Tennis Golf Diving Weightlifting	Tennis Golf Swimming	Tennis Golf Diving Weightlifting	Tennis Golf Swimming	
Evening		Badminton **7:30-9:30**	Square Dancing **8:00-10:00** Calling by Arrangement at 7:30 with B. Creer	Badminton **7:30-9:30**	S.S.A. Mixer Brock Hall

SUMMER SCHOOL SPECIAL EVENTS CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	July 4 Public Affairs Lecture Series Buchanan 106 **8:00 p.m.**	**July 5**	**July 6** SSA General Meeting Auditorium **11:30 a.m.** Fine Arts Lecture Buchanan 106 **8:00 p.m.**	**July 7** High School Concert Band Buchanan Quad. **12:30 p.m.** SSA Mixer, Brock **9:00 p.m.**	**July 8**
July 10 Dr. W. Blatz Lecture Buchanan 106 **8:00 p.m.**	**July 11** Public Affairs Lecture Series Buchanan 106 **8:00 p.m.**	**July 12** SSA Auditorium **12:30 p.m.** SSA Square Dance Women's Gym. **7:30 p.m.** Dr. W. Blatz Lecture Buchanan 106 **8:00 p.m.**	**July 13** Fine Arts Lecture Buchanan 106 **8:00 p.m.**	**July 14** High School Concert Band Buchanan Quad. **12:30 p.m.** SSA Mixer Brock **9:00 p.m.**	**July 15**
July 17 Festival Preview Buchanan 106 **12:30 p.m.** Dr. W. Blatz Lecture Buchanan 106 **8:00 p.m.**	**July 18** Festival Preview Buchanan 106 **12:30 p.m.** Public Affairs Lecture Series Buchanan 106 **8:00 p.m.**	**July 19** SSA Auditorium **12:30 p.m.** SSA Square Dance Women's Gym. **7:30 p.m.**	**July 20** Festival Preview Buchanan 106 **12:30 p.m.** Fine Arts Lecture Buchanan 106 **8:00 p.m.**	**July 21** High School Concert Band Brock **5:00 p.m.** Jean Erdman Recital Auditorium **8:30 p.m.** SSA Mixer Brock **9:00 p.m.**	**July 22**
July 24 Festival Preview Buchanan 106 **12:30 p.m.**	**July 25** Festival Preview Buchanan 106 **12:30 p.m.** Public Affairs Lecture Series Buchanan 106	**July 26** SSA Auditorium **12:30 p.m.** SSA Square Dance Women's Gym. **7:30 p.m.**	**July 27** Festival Preview Buchanan 106 **12:30 p.m.** Fine Arts Lecture Buchanan 106	**July 28** SSA Mixer Brock **9:00 p.m.**	**July 29**

SUMMER SCHOOL SPECIAL EVENTS CALENDAR—(Cont'd)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
July 31 Festival Preview Buchanan 106 **12:30 p.m.** SS of Opera Excerpts Brock **12:30 p.m.**	**August 1** Festival Preview Buchanan 106 **12:30 p.m.** SS of Opera Excerpts Brock **8:30 p.m.**	**August 2** SSA. Auditorium **12:30 p.m.** SSA Square Dance Women's Gym. **7:30 p.m.** SS of Opera Excerpts Brock **8:30 p.m.**	**August 3** Festival Preview Buchanan 106 **12:30 p.m.**	**August 4** SSA Mixer Brock **9:00 p.m.**	**August 5**
August 7 SS of Opera Production Auditorium **12:30 p.m.**	**August 8** SS of Opera Production Auditorium **8:30 p.m.**	**August 9** SS of Dance Performance Auditorium **12:30 p.m.** SSA Square Dance Women's Gym. **7:30 p.m.** SS of Opera Production Auditorium **8:30 p.m.**	**August 10** SSA General Meeting Arts 100 **11:30 a.m.** SS of Dance Performance Auditorium **8:30 p.m.**	**August 11** Arts and Crafts Exhibition Acadia Art Centre **10 a.m. - 10 p.m.** SSA Mixer Brock **9:00 p.m.**	**August 12** Arts and Crafts Exhibition Acadia Art Centre **10 a.m. - 10 p.m.**
August 14	**August 15** Coll. of Education Art Exhibition "The Quad" All day SS of Theatre Production Auditorium **8:30 p.m.**	**August 16** SS of Theatre Production Auditorium **8:30 p.m.**	**August 17** SS of Theatre Production Auditorium **8:30 p.m.**	**August 18** SS of Theatre Production Auditorium **8:30 p.m.**	**August 19** SS of Theatre Production Auditorium **8:30 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 regulations of traffic and parking on campus will be enforced.

Brochures outlining traffic and parking regulations for the Winter and Summer Sessions of 1960-61 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 1960-61 and Summer Session 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 FARES FOR STUDENTS AND INSTRUCTORS ATTENDING SUMMER SESSION

Railway companies have in the past offered a reduction in fare from stations in Canada for summer session students, instructors, and their families. Normally, students purchase a regular one-way first-class or coach class ticket during a specified period in June and secure at that time a standard Convention Certificate. This certificate, if presented to a Ticket Agent not later than the specified date in August entitles the holder to purchase a return ticket at one-half of the one-way fare. Tickets for the return journey permit stopovers and are limited to thirty days from the official closing date. Students **must check with their Ticket Agents in order to learn the dates which are** applicable in the summer of 1961.

LIBRARY INSTRUCTION

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

Hospitalization when required is covered by the B.C.H.I.S. Those not eligible for this coverage are charged a fixed rate each day for hospital services.

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

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

PRE-SCHOOL EDUCATION CENTRES

For information regarding nursery and kindergarten facilities, please turn to page 77.

HOUSING ACCOMMODATION

Housing accommodation at reasonable rates will be available for summer session students who wish board and lodging in ACADIA or FORT Camp dormitories or in the permanent men's or women's residences.

Summer Session Rates

(a) Regular Summer Session Course (July 3 to August 18 inclusive)

1. Men's and Women's Camp Dormitories—Fort and Acadia Camp and Permanent Residences. *(Apply to Housing Administrator).*

		Camp Dormitories	Men's Permanent Residences
Board and residence (flat rates)	Single Room	$113.00	$131.00
	Double Room	$105.00	$122.00

2. Women's Residences and Women's Annex — Fort Camp. *(Apply to Dean of Women).*

Board and residence (flat rates)	Single Room	$131.00
	Double Room	$122.00

The above flat rates cover room from Saturday night, July 1, to August 18, inclusive, and meals from breakfast, Sunday, July 2, to breakfast August 19, inclusive.

Note: Your full board and residence payment should reach the Accounting Department by June 12; otherwise your accommodation can no longer be assured and issuance of your meal pass may be delayed. Meal passes will be available from your Camp Porter before the date required for use if the above regulations have been observed.

(b) Extension Department Short Courses—Men and Women. Short Courses Summer Session—Fort and Acadia Camps and Permanent Men's Residences. *(Apply to Housing Administrator).*

	Men and Women Camp Dormitories	Men's Permanent Residences
Board and residence per month Single Room	$65.00	$75.00
Double Room	$60.00	$70.00

All rates are payable in advance. Any damage to residence accommodation will be charged to the student responsible. *No dormitory deposit required.*

Further information and application forms may be obtained from the Office of the Housing Administrator.

Married Accommodation

Special arrangements will be made for married couples with or without children who plan to attend the summer session. For further information write to the Housing Administrator.

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 utilized after a student has received credit for work 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 certification by completing a particular year on a degree programme in the Faculty of Education as follows:

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. Before a certificate may be changed application must be made to the Department. Since the type of certificate which may be authorized normally is dependent upon the standing within the University, the Department of Education requires evidence of such standing. There is a pink card in the Registration Booklet on which to make application for a change in certification. At the conclusion of Summer Session the Registrar's Office will certify the student's position in his programme on the card and forward it to the Registrar of the Department of Education, Victoria, together

with transcripts where necessary. No further application is necessary, either to the University or to the Department of Education.

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

Full details will be found in the form enclosed with the Registration Booklet. The *application for change in certification* is not to be confused with the *application for graduation* referred to on page 13.

INFORMATION FOR INDUSTRIAL ARTS TEACHERS

With the new organization of Industrial Arts teacher training it will be possible to discontinue the offering of the following courses at the Summer Session:

Ed. 150—General Shop—will not be offered.

Ed. 404—Teaching the Secondary School Subjects (Industrial Arts)—will not be offered.

Ed. 230—Electricity in Industrial Arts—can be offered one more year.

Ed. 252—Mechanical Drawing I—will not be offered.

Ed. 350—Technology of Woodworking I—will not be offered.

Ed. 351—Technology of Metalworking I—will not be offered.

Ed. 352—Mechanical Drawing II—can be offered one or two more years.

Ed. 451—Technology of Metalworking II—can be offered one or two more years.

Those individuals requiring these courses for certification would be well advised to complete them as soon as possible.

TIMETABLE FOR 1961 SUMMER SESSION
INDUSTRIAL ARTS SECTION

Number	*Course*	*Time*
Ed. 230	Electricity in Industrial Arts — Section 1	8-12
Ed. 352	Mechanical Drawing II — Section 1	1-5
Ed. 354	Welding — Section 1	8-12
	Section 2	1-5
	Section 3	1-5
Ed. 450	Technology of Woodworking II — Section 1	8-12
	Section 2	1-5
	Section 3	8-12
Ed. 451	Technology of Metalworking II — Section 1	8-12
Ed. 452	Technology of Woodworking III — Section 1	8-12
	Section 2	1-5
Ed. 453	Auto Mechanics — Section 1	8-12
	Section 2	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 1961 are expected to complete the second and third summers in 1962 and 1963.

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—An Introduction to School Administration ..... 3 units

2. ***Home Economics graduates who have completed one summer session of the required courses should enrol for their second session in the following courses:***
   (1) Education 400—Survey of Educational Thought ..... 3 units
   (if not completed previously) and
   (2) One of the following—
   Education 332—Psychology of Adolescence ..... 3 units
   Education 411—Guidance and Counselling Services ..... 3 units
   Education 416—Speech Education for Teachers ..... 3 units

3. ***Home Economics graduates who have completed two summer sessions of the required courses should enrol for their third summer session in the following courses:***
   (1) Education 400—Survey of Educational Thought ..... 3 units
   (if not completed previously) and
   (2) One of the following—
   Education 332, 411, 416, 461 ..... 3 units

Graduates should register for the courses prescribed for their respective summer programmes. Education 410 will be available in 1961 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 1961 for prospective teachers in Home Economics holding Elementary Basic certificates are:
Home Economics 105
Home Economics 201/310
Home Economics 300
Education 404 (Home Economics)

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

1. **Teachers holding E.B. certificates who wish to train to teach Home** Economics should start on a Major in Home Economics—Bachelor of Education (Secondary Field) programme—by enrolling in six units of Home Economics courses listed above.

2. **Teachers with E.B. certificates who have already taken some of the Home Economics courses listed towards their Major in Home Economics, but have not taken Ed. 404, should choose Ed. 404 plus three units of Home Economics content not taken previously.**

3. Teachers who have completed Ed. 404 and all but one of the Home Economics courses listed, should consult the Registrar of the University of British Columbia as to which other course(s) to take on their Bachelor of Education programme.

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

In order that E.B. teachers starting on a three-year summer session programme may plan their selection of courses, the course offerings for 1962 are as follows:

H.E. 102/104	H.E. 421
H.E. 101/403	Ed. 404 (H.E.)

SPECIAL NOTE FOR PHYSICAL EDUCATION TEACHERS-IN-TRAINING

Training programmes offered for teachers of Physical Education:

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

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

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

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

Courses of Study

ANTHROPOLOGY

200. Introduction to Anthropology.

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

Prerequisite: at least Second Year standing.

Ten hours lectures a week—3 units.

Mr. Read.

BACTERIOLOGY

100. Introductory Bacteriology.

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

Prerequisite: Chemistry 101, which may be taken concurrently.

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

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

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

Mrs. Gerwing.

BIOLOGY

105. Fundamentals of Biology.

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

Credit will not be given both for this course and Biology 100 (Senior Matriculation).

Text-book: Villee, *Biology,* (W. B. Saunders Co., Third Edition).

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

Mr. Allardyce.

BOTANY

331. Fundamentals of Plant Physiology.

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

Prerequisite: Botany 105.

Text-book: Meyer, Anderson and Bohning, *Introduction to Plant Physiology.*

Given in Summer Session only. *Only one of Botany 330 and 331 will be accepted for credit.*

Mr. Wort.

CHEMISTRY

101. General Chemistry.

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

Prerequisites: Mathematics 100, 101 or 120 must precede or be taken concurrently.

Text-books: Sienko and Plane, *Chemistry*, (McGraw-Hill, First or Second Edition); Pierce and Smith, *General Chemistry Workbook*, (Freeman, Second Edition); U.B.C., *Chemistry Laboratory Manual.*

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

Mr. Daggett.

205. Physical-Inorganic and Analytical Chemistry.

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

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

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

Text-books: Gould, *Inorganic Reactions and Structure*, (Henry Holt, 1955); Brown and O'Donnell, *Manual of Elementary Practical Chemistry*, (Melbourne University Press).

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

Mr. Reid.

300. Organic Chemistry.

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

Prerequisite: Chemistry 200 or 205.

Text-book: Morrison and Boyd, *Organic Chemistry*, (Allyn and Bacon).

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

Mr. Bonnett, Mr. McGreer, Mr. Stewart.

304. Physical Chemistry.

Elementary thermochemistry, thermodynamics, and electrochemistry; elementary quantum theory; atomic spectra; atomic and molecular structure; states of matter; chemical equilibria; chemical kinetics; colloid chemistry.

Prerequisites: Chemistry 200 or 205 (or Physics 200) and Mathematics 202 or 220. Mathematics 300 concurrently is recommended.

Text-books: Moore, *Physical Chemistry*, (Prentice-Hall, Second Edition); Daniels and Alberty, *Physical Chemistry*, (Wiley).

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

Mr. Dunell, Mr. James, Mr. Snider.

305.

Same as Chemistry 304 with the omission of the laboratory.

Ten hours lectures a week—2 units.

Mr. Dutton, Mr. James, Mr. Snider.

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, Greek.

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

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

Mr. Cole.

433. Greece.

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

Accepted for credit in History, Latin, Greek.

Ten hours lectures a week—3 units.

Mr. Eliot.

COMMERCE

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

90. Typewriting Techniques, Practice and Methods.

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

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

Limited to 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).

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).

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

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

***Ten hours lectures 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.

Limited to 50 students.

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

Prerequisite: at least Second Year standing.

Text-book: Finney and Miller, (Mitchell), *Principles of Accounting, Introductory,* (Prentice-Hall, Canadian Edition).

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

Mr. Beedle.

201. Secretarial Practice.

The development of advanced typewriting, shorthand and transcription skills, office routines, business forms, reports, correspondence, filing, business machines. The training of office workers.

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

Prerequisites: Commerce 90, Commerce 101.

Pre-reading Recommended: *Basic Course in Pitman Shorthand.*

Text-book: *Shorthand Dictation and Transcription,* (Sir Isaac Pitman and Sons (Canada) Limited, shorthand and longhand editions).

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

Mrs. Cameron.

252. Intermediate Accounting.

A study of financial accounting emphasizing principles of valuation and income measurement. An introduction to managerial accounting including elements of cost accounting.

Limited to 50 students.

Prerequisite: Commerce 151.

Text-book: Finney and Miller (Byrd), *Principles of Accounting (Intermediate),* (Prentice-Hall, Canadian Edition).

Ten hours lectures a week—3 units.

Mr. MacDonald.

371. Business Finance.

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

Text-book: Guthmann and Dougall, *Corporate Financial Policy,* (Prentice-Hall, Third Edition, 1955).

Prerequisites: Commerce 151, Economics 200.

Ten hours lectures a week—3 units.

Mr. Wong.

376. Personal and Business Finance.

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

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

Prerequisite: Commerce 151 recommended but not required.

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

Ten hours lectures a week—3 units.

Mr. Heywood.

391. Office Management.

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

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

Prerequisite: Commerce 151 recommended but not required.

Text-books: Neuner, *Office Management,* (Southwestern, W. J. Gage Ltd., Fourth Edition); *Labour Relations Act (B.C.); Workmen's Compensation Act (B.C.);* other labour legislation.

Since some field work is required students should not have afternoon lectures or laboratories between 3:30 and 5:30 p.m.

Ten hours lectures a week—3 units.

Mr. Bruce.

ECONOMICS

200. Principles of Economics.

The institutions, processes and agencies which provide for our individual and

collective well-being; basic determinants of prices and costs, real and money incomes, employment and living standards.

Prerequisites: Second Year standing; Mathematics 91 (of high school) or 100.

Text-book: Inman, *Economics in a Canadian Setting,* (Copp and Clark, 1959 Edition).

Ten hours lectures a week—3 units.

300. Intermediate Economic Analysis.

Theory of demand; production; equilibrium of the firm; distribution; monopoly and monopolistic competition; general equilibrium. Theories of the value of money, of interest and employment inflation; economic growth and economic fluctuations.

Prerequisite: Economics 200.

Ten hours lectures a week—3 units.

Mr. Will.

EDUCATION

Changes in the Elementary Field programme effective September 1961.

The programmes for Third and Fourth Years have been revised as follows:

Third Year — English 300 or 400; Education 331 or other course in educational psychology approved by the Director; Geography 303; nine units devoted to the professional major chosen, or to the academic requirement or to a combination of both.*

Fourth Year — Education 400 or 430; Education 309 or course approved by the Director; 12 units devoted to the professional major or to the academic requirement, or to both.*

*The student will be expected to complete at least one major, *either* one of the professional majors *or* one of the academic sequences or majors in this block of 21 units in Third and Fourth Years. If he chooses a professional major, the remaining courses of the 21 unit group should be academic. If his major is academic, the remaining courses should be professional. Consult the 1961-62 Winter Session Calendar and/or the Director of Elementary Teacher Education, Dr. F. H. Johnson.

Students beginning Third Year this summer should follow the amended programme outlined above.

Students already enrolled in Third or Fourth Years have a choice of completing their degree under the former programme or under the new regulations.

Students entering Third Year after September 1961 *must* follow the amended programme. These students should also note the requirement of a 60% average in the senior courses which constitute a major (as for the Secondary programme).

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 1961-62 Calendar.

305. Art Education.

A study of the growth and developmen 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.

Text-book: Jefferson, *Teaching Art to Children,* (Allyn and Bacon, 1959 Edition).

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

Mr. Sutton.

307. Music Education.

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

Prerequisite: Education 207 or Normal School Diploma.

Ten hours lectures a week—3 units.

Mr. Hewson.

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: one year of teaching experience.

Pre-reading required: Craig, Chapters 7 to 24 inclusive.

Text-books: Craig, *Science for the Elementary School Teacher*, (Ginn and Co., New Edition, 1958); Taylor, *The Guide to Garden Flowers*, (Houghton Mifflin Co., 1958); B.C. Provincial Museum Handbooks on *Reptiles, Amphibians, Fish, Mammals*, and *Birds*.

Students who wish to take advantage of field trips should keep Monday or Thursday afternoons free.

Ten hours lectures a week—3 units.

Mr. Boughton, Mr. Cannon, Mr. Gornall, Mr. Young.

331. Psychology of Childhood.

Mental, social, emotional and physical characteristics of pre-school and elementary school pupils; their interests and problems; implications for organization and administration of school systems.

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

Mr. Blatz, Miss Dolmage, Mrs. Gallwey, Miss Law.

332. Psychology of Adolescence.

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

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

Ten hours lectures a week—3 units.

Mr. Macdonald.

333. Special Problems in Pre-School Education.

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

The course will emphasize kindergarten methods and provide observation opportunities. Students may not, therefore, enroll in a second course at the 10:25 - 12:20 lecture period.

Text-books: Lambert, *Teaching the Kindergarten Child*, (Harcourt Brace, 1958 Edition).

Ten hours lectures a week—3 units.

Miss Allen.

365. Oral French for Elementary Teachers.

A course designed to meet the needs of those planning to teach French in the elementary school and for those who need additional work in teaching by the

direct method in secondary schools. This course is also recommended for junior high school teachers of French.

See also page 15.

Prerequisite: French 220 (210).

Text-book: Whitmarsh, *Advanced French Course,* (Longmans Green, latest edition).

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

Mrs. Bird, Mr. Bird, Miss Boyles.

390. Librarianship: Sources of Information.

A basic course in the use of books and libraries, stressing the methods of gathering information. The student will be introduced to the most commonly used reference and information sources and be given practice in their evaluation and use. Special emphasis will be given to the resources and methods for locating educational information and to techniques of teaching the use of school libraries.

Ten hours lectures a week—3 units.

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.

Section 1 Text-book: Curtis and Boultwood, *A Short History of Educational Ideas* and the Educational Classics mentioned below.

Section 2 Text-book: Phenix, *Philosophy of Education.* The following Educational Classics will be referred to but need not be purchased: Rousseau, *Emile;* Plato, *Protagoras* and *Meno;* Locke, *Some Thoughts Concerning Education;* Dewey, *Philosophy of Education;* Newman, *The Uses of Knowledge;* Spencer, *Essays on Education;* Aristotle, *Politics.*

Ten hours lectures a week—3 units.

Mr. Penner, Section 1; Mr. Lawson, Section 2.

401. Theoretical Bases of Educational Psychology

A systematic study of important theories in educational psychology in the areas of learning, personality, and measurement; contemporary schools of psychological thought.

Prerequisites: Education 102 or 301 or Normal School Diploma.

Ten hours lectures a week—3 units.

Mr. Joly, Mr. Tyler.

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.

Art.
Five hours lectures a week—1½ units.
Mr. Sutton.

English.
Limited to two sections of 30 each.
Prerequisite: Three senior courses in English.
Text-book: Wolfe, *Creative Ways to teach English, Grades 7 to 12,* (Odessey Press, 1959 Edition).
Five hours lectures a week—1½ units.
Miss Cottingham.

Geography and Social Studies.
Prerequisite: Geography major or instructor's written consent.
Five hours lectures a week—1½ units.
Mr. Tomkins.

History and Social Studies.
Prerequisite: History major or instructor's written consent.
Five hours lectures a week—1½ units.
Mr. Tomkins.

Home Economics.
Limited to 30 students.
Section 1—15 Bachelor of Education students with at least six units of Home Economics complete who have some teaching experience.
Section 2—15 Home Economics graduates.
Text-book: Williamson and Lyle, *Home Making Education,* (Appleton-Century Crofts).
Six hours lectures and six hours laboratory a week—3 units.
Mrs. Manning.

Music.
Five hours lectures a week—1½ units.
Mr. Hewson.

Physical Education.
Pre-reading required: 1951 and 1960 Physical Education Curriculum of the Department of Education of British Columbia.
Text-books: Kozman, Cassidy, and Jackson, *Methods in Physical Education,* (Saunders, Third Edition); Irwin, *The Curriculum in Health and Physical Education,* (Mosby, Second Edition).
Five hours lectures a week—1½ units.
Mr. Laithwaite.

Science.
Ten hours lectures a week—3 units.
Mr. Chapman.

405. Curriculum and Instruction in the Kindergarten and Primary Grades —Advanced.
Current research findings; trends and problems dealing with personality development, classroom management, the language arts, arithmetic, science, social studies, music and art, in the kindergarten and primary grades.
Prerequisite: Education 203 or 204 or Normal School Diploma.
Text-book: Hunnicutt and Iverson, *Research in the Three R's,* (Harper, 1958 Edition).
Ten hours lectures a week—3 units.
Mrs. Birkett, Miss Roxburgh.

407. Teaching the Mentally and Physically Handicapped.

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

Limited to 50 students registered in Third or higher year.

Pre-reading recommended: Cruickshank and Johnson, *Education of Exceptional Children and Youth.*

Text-book: Baker, *Introduction to Exceptional Children* (Macmillan, 3rd edition).

Ten hours lectures a week—3 units.

Mr. Richardson.

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.

Ten hours lectures a week—3 units.

Mr. Farrell.

410. An Introduction to School Administration.

The functions and duties of inspectors, supervisors, counsellors and principals in the modern school. The development of good harmonious working relations with pupils, teachers, parents, the Department of Education and trustees is emphasized. The organization of a school time table, the development of school council, the promotion of an orderly programme of extra-curricular and co-curricular activities are considered.

Open only to Home Economics graduates and students of Industrial Arts.

Text-books: *Administrative Bulletins, Elementary and Secondary,* Department of Education, and *Introduction to Educational Administration.*

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

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.

Text-book: Arbuckle, *Guidance and Counselling in the Classroom,* (Allyn and Bacon, 1957 Edition).

Ten hours lectures a week—3 units.

Mr. Couch.

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.

Ten hours lectures a week—3 units.

Mr. Whitinger.

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: Chapters 1 to 4 of the text.

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

Prerequisite to Education 508 Research in Reading.

Ten hours lectures a week—3 units.

Mr. Covell.

416. Speech Education for Teachers.

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

Limited to 25 students.

Ten hours lectures a week—3 units.

Miss Elliott.

417. Teaching Dull and Backward Children.

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

Limited to 40 students.

Prerequisite: Education 407 recommended, not mandatory.

Pre-reading recommended: Ingram, *Education of the Slow Learning Child,* (Ronald Press, 1960 Edition); Tansley and Gulliford, *The Education of Slow Learning Children,* (Routledge and Regal Paul, 1960); Kirk and Johnson, *Educating the Retarded Child,* (Houghton Mifflin). One, at least, of the above books should be read prior to the course.

Ten hours lectures a week—3 units.

Mr. Gulliford.

419. Introduction to Speech Correction for Classroom Teachers.

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

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

Ten hours lectures a week—3 units.

Miss Washington.

420. Teaching the Severely Mentally Handicapped.

Deals with children commonly found in classes for the 'trainable' mentally retarded, major aims of education being independence in self-care, social competence, simple economic skills, communication, recreational interests. Stress is placed on curriculum organization, teaching methods, modern provisions, research and sociological and psychological aspects of the problem.

Pre-reading recommended: Clarke and Clarke, *Mental Deficiency — The Changing Outlook,* (The Free Press, 1958 Edition); Davies, *The Mentally Retarded in Society,* (Columbia University Press, 1959 Edition); Kephart, *The Slow Learner in the Classroom,* (Charles E. Merrill Books, 1960 Edition); Kirk and Johnson, *Educating the Retarded Child,* (Houghton Mifflin, 1951 Edition); Perry, *Teaching the Mentally Retarded Child,* (Columbia University Press, 1960 Edition).

Ten hours lectures a week—3 units.

Mr. Nuttall.

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.

Text-book: Brueckner and Bond, *Diagnosis and Treatment of Learning Difficulties,* (Appleton Century Crofts, 1955 Edition).

Ten hours lectures a week—3 units.

Mrs. Rizer.

470. Educational Sociology.

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

Pre-reading recommended: Meltzer, Doby, Smith, *Education in Society,* (N.Y. Crowell, 1958 Edition).

Text-book: Havighurst and Neugarten, *Society and Education,* (Allyn and Bacon, 1957 Edition).

Ten hours lectures a week—3 units.

Mr. C. E. Smith.

490. The Library in The School.

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

Limited to 25 students.

Ten hours lectures a week—3 units.

Mr. Lanning.

514. Foundations of Adult Education.

A study of the historical, political and social factors which influence movements and programmes of adult education. Special consideration will be given to developments in Britain, the United States, Scandinavia, the Soviet Union, Asia and Canada. Philosophical problems related to the extension of adult education will be discussed.

Prerequisite: Education 412.

Limited to 30 students.

Pre-reading recommended: J. Roby Kidd, *How Adults Learn,* and *Adult Education in Canada.*

Ten hours lectures a week—3 units.

Mr. A. M. Thomas.

517. Health Education in Schools.

Designed for students who are interested in the philosophy, the administration and the teaching of health in schools. Time will be devoted to the several aspects of school medical service, the healthful school environment, both physical and emotional, and the methods and materials of teaching in schools from Grade 1 through High School.

Ten hours lectures a week—3 units.

Mrs. Couch.

519. History of Canadian Education.

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

With the Director's written permission this course may replace Education 400.

Text-book: Phillips, *Development of Canadian Education,* (Gage, Toronto).

Ten hours lectures a week—3 units.

Mr. Johnson.

523. Comparative Education.

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

Text-book: Cramer and Browne, *Contemporary Education, A Comparative Survey of National Systems,* (Harcourt, Brace, 1956 Edition).

Ten hours lectures a week—3 units.

Mr. Cramer.

530. Psychology of Learning.

The study of intraserial phenomena, maturation, effect, frequency, transfer, retention, practice and material effects in learning. Theories of learning, and results of research in learning. The relationship of theories to methodology and curricular practices.

Prerequisite: Education 102, 301, 331 or 332.

Pre-reading recommended: Hilgard, *Theories of Learning* (Revised Edition).

Text-book: Kingsley and Garry, *The Nature and Condition of Learning,* (Prentice-Hall, Second Edition).

Ten hours lectures a week—3 units.

Mr. Meyers.

533. Psychology of Exceptional Children.

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

Limited to 40 students who have completed either Education 407 or 408 and who have had experience with handicapped children.

Pre-reading recommended: the text-books and Louttit, *Clinical Psychology of Exceptional Children,* (Third Edition, Harper and Bros.).

Text-books: Cruickshank and Johnson, *Psychology of Exceptional Children and Youth,* (Prentice Hall, 1955); Wright, *Physical Disability: A Psychological Approach,* (Harper and Bros., 1959).

Ten hours lectures a week—3 units.

Mr. Tenny.

535. Evaluation.

Basic principles; tests and other instruments for measuring instruction.

Prerequisite: Education 301 or 435.

Text-book: Ross and Stanley, *Measurement in Today's Schools,* (Prentice-Hall, Third Edition).

Ten hours lectures a week—3 units.

Mr. Munro.

556. Administration of School Systems.

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

Prerequisite: Education 557 or 558.

Pre-reading recommended: Whyte, *Organization Man;* Packard, *Status Seekers.*

Text-books: Grieder and Rosenstence, *Public School Administration,* (Ronald Press, 1954 Edition); Hunt and Pierce, *The Practice of School Administration,* (Houghton, Mifflin Co., Riverside Press, 1958 Edition).

Five hours lectures a week—1½ units.

Mr. D. Smith.

558. Administration and Supervision of the Secondary School.

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

Ten hours lectures a week—3 units.

Mr. Taylor.

560. Theories and Principles of Education Administration.

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

Prerequisites: Education 557 and/or 558.

Pre-reading recommended: Whyte, *Organization Man;* Packard, *Status Seekers.*

Text-books: Campbell and Gregg, *Administrative Behaviour in Education,* (Harper and Bros., 1957 Edition); Titus, *The Processes of Leadership,* (Brown, 1950 Edition); Machiavelli, *The Prince,* (Mentor, Oxford University Press).

Five hours lectures a week—1½ units.

Mr. D. Smith.

564. Research Problems in Curriculum Organization.

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

Prerequisite: Education 204 or 404.

Ten hours lectures a week—3 units.

Mr. Hambleton.

565. Special Course in a Subject Matter Field.

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

For credit only in the Faculty of Education.

French.

See also page 14.

Prerequisite: a university degree with at least a minor in French.

Text-books: Lévêque, *Histoire de la civilisation française,* (Holt, latest edition); Whitemarsh, *Cours Supérieur,* (Longmans Green, latest edition).

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

Mrs. Bird, Mr. Bird, Miss Boyles.

Geography.

Text-book: Wooldridge and East, *Spirit and Purpose of Geography,* (Hutchinson's Library).

Ten hours lectures a week—3 units.

Mr. Renner.

Physics.

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

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

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

Mr. Boldt, Mr. Cannon, Mr. Livesey.

578. Advanced Seminar in Theories of Guidance and Counselling.

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

Prerequisite: Education 403 or 411. Students are also advised to take Education 535, 537 and 552 prior to this course.

Limited to 25 students who meet the prerequisite requirements and have in addition a background in psychology, teaching and guidance experience satisfactory to the instructor. This is the terminal course in the Guidance sequence for the Master's degree.

Text-book: Marzolf, *Psychological Diagnosis and Counselling in the Schools,* (Holt, 1956 Edition).

Ten hours lectures a week—3 units.

Mr. Auld.

580. Problems in Education.

Investigation and report of a problem.

Consult the Director of Elementary Education, Dr. F. H. Johnson, or the Director of Secondary Education, Dr. J. R. McIntosh, during May or June before registering. Registrations will not be accepted without the written consent of the Director concerned.

Consultation hours to be arranged individually—3 units.

581. Methods of Educational Research.

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

Open to Master's degree candidates only.

Prerequisite: Knowledge of elementary descriptive statistics, which may be gained by reading the first seven chapters of the text for Education 582.

No specific text, intensive readings from Jahoda, Deustch, and Cook, *Research Methods in Social Relations,* (Dryden Press).

Five hours lectures a week—1½ units.

Mrs. Rajaratnam.

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.

Prerequisite: a knowledge of elementary descriptive statistics.

Pre-reading recommended: Chapters 1 to 7 of text.

Text-book: Blommers and Lindquist, *Elementary Statistical Methods,* (Houghton Mifflin).

Five hours lectures a week—1½ units.

Mrs. Rajaratnam.

INDUSTRIAL ARTS COURSES

230. Electricity in Industrial Arts.

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

Limited to twenty students.

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

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

Prerequisite: Education 150.

Twenty hours laboratory a week—3 units.

Mr. Hambrook.

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.

Mr. Luther.

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 fifty-four students.

Prerequisite: Education 150.

Twenty hours laboratory a week—3 units.

Mr. Biddlecombe, Mr. Findlay.

450. Technology of Woodworking II

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

Limited to fifty-five students.

Text-book: Marlow, *Fine Furniture for the Amateur Cabinetmaker,* (Macmillan, First Edition).

Prerequisites: Education 150, Education 350.

Twenty hours laboratory a week—3 units.

Mr. Acteson, Mr. Catherall, Mr. Leduc.

451. Technology of Metalwork II.

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

Limited to twenty students.

Text-book: Feirer, *General Metals,* (McGraw-Hill, latest edition).

Prerequisites: Education 150, Education 351.

Twenty hours laboratory a week—3 units.

Mr. Smith.

452. Technology of Woodworking III

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

Limited to forty students.

Prerequisites: Education 150, Education 350, Education 352.

Twenty hours laboratory a week—3 units.

Mr. Morrice.

453. Auto Mechanics.

General construction of the automobile; power plant; auxiliary systems; fuel, carburetion; lubrication; cooling system; clutch and gear box; rear axles; drive shafts and universal joints; front axles and steering gears; brakes; miscellaneous.

Limited to forty students.

Text-book: Crouse, *Automotive Mechanics,* (McGraw-Hill, latest edition).

Prerequisites: Education 150, Education 351.

Twenty hours laboratory a week—3 units.

Mr. Mitchell.

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;* Hemingway, *A Farewell to Arms;* Williams, *A Little Treasury of Modern Poetry,* (Scribner's); McPeek and Wright, *Handbook of English,* (Ronald); Douglas, *The Character of Prose,* (Houghton Mifflin Co.).

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

Ten hours lectures a week—3 units.

Miss Webb.

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, *Antony and Cleopatra,* (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 above 350.

Mr. Berner, Mr. Fredeman, Mr. Jordan, Mr. Mitchell, Mr. Wigod.

202. Writing.

Practice in imaginative writing, with particular attention to the short story, the familiar essay, the novel, the one-act play, and to contemporary verse forms, but with reference also to radio and television forms.

Limited to 25 students. Each candidate should submit an example of his writing.

Prerequisite: English 100.

Ten hours lectures a week—3 units.

Mr. Friedson.

300. English Composition.

A study of the principles and practice of good writing.

Limited to 15 students in each of ten sections.

For credit only in the Faculty of Education.

Prerequisite: English 100.

Text-books: Fowler, *Modern English Usage*, (Oxford); Jespersen, *Essentials of English Grammar*, (Allen and Unwin); Morrison and Robbins, *As a Man Thinks*, (Gage).

Ten hours lectures a week—3 units.

Mr. Barclay, Mr. Bertram, Mr. Lawrence, Mr. Macaree, Mrs. Rowland, Mrs. Sonthoff, Mr. Stone, Mrs. Tedford.

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, Mr. Van Slooten, Mrs. Hambleton.

400. Advanced English Composition.

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

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

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

Prerequisite: English 200.

Ten hours lectures a week—3 units.

Mr. Clubb.

406. English Poetry.

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

Ten hours lectures a week—3 units.

Mr. Blissett.

412. Shakespeare.

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

Ten hours lectures a week—3 units.

Mr. Endicott.

425. Milton.

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

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

Text-book: *Milton's Works in Odyssey Press.*

Ten hours lectures a week—3 units.

Mr. de Bruyn.

429. American Literature since 1865.

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

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

Ten hours lectures a week—3 units.

Mr. Pallette.

430. The Romantic Period.

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

Pre-reading recommended: Prefatory notes in Noyes, *English Romantic Poetry and Prose*, on Wordsworth, Coleridge, Byron, Shelley, and Keats and the following selections from *Noyes:* Wordsworth, *Preface to Lyrical Ballads;* Byron, *Don Juan;* Shelley, *Defence of Poetry, Prometheus Unbound;* Keats, *Endymion.*

Pre-reading required: Introductory Survey in Noyes, *English Romantic Poetry and Prose*, and the following selections from *Noyes:* Wordsworth, *The Prelude;* Coleridge, *Biographia Literaria;* Byron, *Childe Harold;* Shelley, *Alastor;* Keats, *Hyperion.* An examination will be given in the first week on this work. The mark will form part of the final grade.

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

Ten hours lectures a week—3 units.

Mr. Spaulding.

432. Victorian Prose.

Macaulay, Carlyle, Mill, Newman, Ruskin, Arnold, Huxley, etc.

Text: Harrold and Templeman, *English Prose of the Victorian Era*, (Oxford University Press, latest edition).

Ten hours lectures a week—3 units.

Mr. Hulcoop.

433. Modern Period.

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

Pre-reading recommended: Students are advised to read as many of the novels in the course as they can. Reading lists for the course may be obtained from the secretary of the Department of English.

Pre-reading required (examination given during first week on pre-reading required): Hardy, *The Return of the Native* and *Jude The Obscure;* Butler, *Erewhon* and *The Way of All Flesh.*

Text-book: Untermeyer, *Modern British Poetry.*

Ten hours lectures a week—3 units.

Mr. Sawyer.

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

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.

515. Shakespeare Criticism.

Prerequisite: A course in Elizabethan drama. Consult Instructor on essay *required by May 15*, pre-reading examination, texts, and prerequisite.

Students may not register in another course in addition to English 515.

Ten hours lectures a week—3 units.

Mrs. M. Smith.

FINE ARTS

NOTE: *The following courses are for credit only in the Faculty of Education with the exception of Fine Arts 225, which is for credit in the Faculty of Arts and Science. Students enrolling in Education Fine Arts courses above the "300" level must be prepared to submit art work to their instructor on the first day of lectures. The work submitted should show evidence of serious extra-curricular effort and will assist the instructor in guiding the student.*

101. History of the Fine Arts.

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

For credit only in the Faculty of Education.

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

Ten hours lectures a week—3 units.

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

225. History of Art.

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

Text-book: Helen Gardner, *Art Through the Ages,* (Harcourt Brace, Fourth Edition).

Ten hours lectures a week—3 units.

300. Introduction to the Plastic and Graphic Arts.

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

For credit only in the Faculty of Education.

Limited to 25 students majoring in Art.

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

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

Prerequisite: Fine Arts 101.

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

Mr. Foster.

301. Drawing and Composition.

A basic course in drawing in various media. A study of the fundamentals of composition and picture analysis. Students will be expected to submit a sketch book of work as part of the final mark.

For credit only in the Faculty of Education.

Limited to 20 students majoring in Art.

Prerequisite: Fine Arts 300.

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

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

Mr. MacIntosh.

401. Painting I.

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

Prerequisites: Fine Arts 300 and 302.

For credit only in the Faculty of Education.

Limited to 15 students majoring in Art.

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

Mr. Healy.

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 Art 300 and Fine Arts 302.

For credit only in the Faculty of Education.

Limited to 15 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. Healy.

404. Essay or Special Study.

An extensive study of a particular field of fine arts or art education. Experimental research will be carried out under the direction of the Faculty and College of Education. The essay must be submitted in final form on or before the last day of lectures.

Limited to students who obtain permission of the instructor; students will meet in Room 10, Hut A1 on July 3 at 12:30 p.m.

Consultation hours to be arranged with the instructor—3 units.

Mr. Ozard.

FRENCH

110 and 120. First Year University French.

Study of French texts; grammar, pronunciation.

Text-books: Travis, *A Précis of French Grammar,* (Harrap); *French-English, English-French Dictionary,* (Larousse); *Nouvelles française,* (ed. Hall, Odyssey Press). (Supplementary reading for students eligible for French 120).

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

Ten hours lectures a week—3 units.

Miss Richardson.

210. Second Year University French.

Reading of the following texts: Voltaire, *Candide;* Balzac, *le Colonel Chabert; Gobseck;* Gide, *la Symphonie pastorale;* linguistic study based on Sonet and Shortliffe, *Review of Standard French.*

Prerequisite: French 110.

Pre-reading recommended: *Candide, Gobseck,* and *le Colonel Chabert.*

Ten hours lectures a week—3 units.

Mr. Fleury, Mr. Treil.

220. French Language and Literature, Part II

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

Pre-reading recommended: Molière, *Le Malade imaginaire,* (pp. 185 to 212).

Text-book: Bishop, *A Survey of French Literature — Volume I,* (Harcourt Brace, Latest Edition).

Ten hours lectures a week—3 units.

Mr. Harder.

300. Literature of the Seventeenth Century.

Text-books: Lagarde et Michard, *XVII siècle,* (Bordas), Corneille, *Polyeucte,* (Classiques Larousse); Descartes, *Discours de la méthode,* (Classiques Larousse); Pascal, *Les Pensées,* (Classiques Larousse); Molière, *Les Précieuses ridicules* and *Le Tartuffe,* (Classiques Larousse); Racine, *Phèdre,* (Classiques Larousse); La Bruyere, *Les Caractères,* (Classiques France, Hachette).

Ten hours lectures a week—3 units.

Mr. Poirion.

301. Literature of the Twentieth Century.

Pre-reading recommended: Gide, *Les Faux Monnayeurs;* Mauriac, *La Pharisienne;* Malraux, *La Condition humaine.*

Text-books: Proust, *Combray,* (Appleton Croft); Gide, *Les Faux Monnayeurs,* (N.R.F. or MacMillan); Mauriac, *La Pharisienne,* (Grasset); Saint Exupéry, *Vol de Nuit,* (Harper); Malraux, *La Condition humaine,* (N.R.F. or Livre de poche); Sartre, *Les Mains sales,* (N.R.F. or Livre de poche); Camus, *La Peste,* (N.R.F. or Livre de poche).

Ten hours lectures a week—3 units.

Mr. Darbelnet.

GEOGRAPHY

101. Introduction to Physical Geography.

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

Geography 101 may be credited as a science course in the first or second year electives of either the B.A. or the B.Ed. programme.

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

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, 10:25 or 3:45 at the first meeting of the class.

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

Miss McIver, Mr. Rheumer.

302. Weather and Climate.

Introductory study of the elements and controls of weather and climate; meteorological instruments and practical weather observations; daily weather maps; climatic classification; regional climatology with particular emphasis upon the climate of British Columbia.

Prerequisite: Geography 101.

Text-book: Trewartha, *An Introduction to Climate,* (McGraw-Hill, Third Edition).

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

Mr. MacPherson.

303. World Geography.

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

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

Prerequisite Section 1 (Arts and Secondary Education students): Geography 101. Group discussion hours arranged at first meeting of class.

No prerequisite for section 2 (Elementary Education students and others who have not had Geography 101). Group discussion hours arranged at first meeting of class.

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

Mr. Miles, Mr. Vanderhill.

307. Human and Political Geography.

Man's occupation of the earth's surface through time; population distribution, growth and problems; the political geography of selected areas.

Prerequisite: Geography 101.

Text-books: East, *The Geography Behind History*, (Nelson); Moodie, *The Geography Behind Politics*; (Hutchinson's Library).

Ten hours lectures a week—3 units.

Mr. Whebell.

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.

Prerequisite: Geography 101.

Text-book: Cressey, *Land of the 500 Million*, (McGaw-Hill, 1955).

Ten hours lectures a week—3 units.

Mr. Wiens.

410. Geography of the Pacific Northwest.

Regional geography of British Columbia and adjacent areas of Canada and U.S.A. Physical and cultural elements of the environment are considered with particular regard to resource use.

Prerequisite: Geography 101.

Ten hours lectures a week—3 units.

Mr. Farley.

GEOLOGY

412. Geomorphology.

For advanced students in geography and geology; a study of the processes, principles, and laws of land formation, types of land forms, and their distribution.

Limited to 25 students completing a major or honours programme in Geography or Geology.

Prerequisites: Geology major: Geology 200 or 250 and 304; Geography major: Geography 101.

Text-book: W. D. Thornbury, *Principles of Geomorphology*, (Wiley, 1958 Edition).

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

Mr. Okulitch.

GERMAN

90. Beginners' Course.

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

Ten hours lectures a week—3 units.

Mr. Egert.

110 and 120. First Year University German.

Text-books: Remarque, *Drei Kameraden;* Foltin, *Aus Nah und Fern;* Cochran, *Practical German Review Grammar.*

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

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

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

Mr. Maché.

200. German Literature from 1870 to the Present.

Text-book: Feise and Steinhauer, *German Literature since Goethe—Part II: Age of Crisis.*

Prerequisite: German 110 or 120.

Pre-reading required: *Hesse, Heumond,* in the required text.

Ten hours lectures a week—3 units.

Mr. Anderson.

301. The Novelle.

Development of the German Novelle, with emphasis on the 19th century. Extensive independent reading will be expected.

Prerequisite: German 200.

Pre-reading list available from Department of German.

Text-books: Fleissner, *Die Kunst der Prosa,* (Crofts); *Die schönsten deutschen Erzahlungen,* ed. Penzoldt; Steinhauer, *Die deutsche Novelle 1880-1950,* (Norton).

Ten hours lectures a week—3 units.

Miss Hallamore.

303. Survey of German Literature to 1700.

Reading from selected texts.

Prerequisite: German 200.

Pre-reading list available from Department of German.

Text-book: Burkhard, *Schriftwerke deutscher Sprache, Volume I,* (Sauerländer, Aarau).

Ten hours lectures a week—3 units.

Mr. Batts.

HISTORY

102. The History of Canada.

Introductory general course recommended as a prerequisite for History 404, 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).

Ten hours lectures a week—3 units.

Mr. Graham.

201. British History.

A survey of British history from the late Anglo-Saxon period to modern times with emphasis on political and constitutional development.

Pre-reading required: Text, book I, chapters 6-8 and all of book II (pages 83-200). There will be a test in the first week on the pre-reading.

Text-book: Trevelyan, *A Shortened History of England,* (Pelican Books,

A443). Other readings to be assigned. Syllabus of lectures and reading list available from instructor prior to Summer Session.

Ten hours lectures a week—3 units.

Mr. Harnetty.

304. Mediaeval Europe, 500-1300.

A general outline of mediaeval history from the fall of the Roman Empire to the 13th century.

Text-books: Thorndike, *History of Mediaeval Europe,* (Houghton Mifflin); Painter, *A History of the Middle Ages,* (Knopf. Agent is J. K. Gill and Co.).

Ten hours lectures a week—3 units.

Mr. Oleson.

310. British Imperial History.

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

Ten hours lectures a week—3 units.

Mr. Flint.

318. England Under the Tudors and Stuarts, 1485-1688.

Text-books: Elton, *England Under the Tudors,* (Barnes and Noble, agent is Ryerson Press); Trevelyan, *England Under the Stuarts,* (Barnes and Noble, agent is Ryerson Press).

Ten hours lectures a week—3 units.

Mr. Preston.

400. Intellectual History of Modern Europe.

From the Sixteenth Century to recent times. Emphasis will be on material in the 17th, 18th, and early 19th centuries.

Text-book: Bronowski and Mazlish, *The Western Intellectual Tradition,* (Harpers).

Ten hours lectures a week—3 units.

Mr. Norris.

HOME ECONOMICS

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

105. Food Management I.

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

Limited to 30 students with E.B. or higher Certificate working toward B.Ed. (Secondary).

Prerequisite: H.E. 91 or equivalent.

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

Ten hours lectures, six hours laboratory a week—3 units.
Miss Schaffner.

201 - 310. Food Management and Human Nutrition.
(Offered as a 3-unit course.)
Food Management II.

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

Prerequisite: H.E. 105.

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

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).

Limited to 30 students on B.Ed. programme.

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

Miss Colburn.

300. Home Management I.

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

Prerequisites: Physics 91 or 103, Economics 200.

Limited to 30 students on B.Ed. programme.

Text-books: Gross and Crandall, *Management for Modern Families,* (Appleton Century Crofts, 1954 Edition); Ehrenkranz and Inman, *Equipment in the Home,* (Harper, 1959 Edition).

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

Miss Lloyd.

LATIN

110, 120, 210, 220, 407 or 530. Composite Course in Latin.

Intended primarily for students attending the Summer Session. A substantial amount of a Roman author (in 1961 Tacitus) will be read, partly in the original and partly in English translation, the amount of the original varying with the student's preparation. Students desiring credit in Latin 110, 120, 210, 220, 407 or 530 will register for this course under the appropriate number and will receive three units of credit upon the successful completion of the appropriate amount of work. Students who have failed Latin 110 in the winter session will not be admitted.

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

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

Text-books: Tacitus, *The Agricola and Germania,* (ed. by Church and Brodribb, McMillan); Grant, *Tacitus on Imperial Rome,* (Penguin); Mattingly, *Tacitus on Britain and Germany,* (Penguin).

Ten hours lectures a week—3 units.

Mr. Lenardon.

LINGUISTICS

319. Comparative and Historical Linguistics.

The origin and nature of language; the development of the alphabet and other systems of writing; speech sounds from the phonetic and phonemic points of view; the phonology of Canadian English; the word and its context; morphology and syntax; semantics; etymology; the classification of languages, linguistic change, areal linguistics and dialectology, with particular stress on the Indo-European group of languages.

Text-book: Gleason, *An Introduction to Descriptive Linguistics,* and the *Workbook,* (Holt).

Ten hours lectures a week—3 units.

Mr. Bursill-Hall.

MATHEMATICS

101. Fundamental Mathematics.

Sets, algebra, introduction to probability and statistics, elementary calculus. This course is recommended for students in commerce, the humanities, and the social sciences.

Text-books: CEEB Commission on Mathematics, *Introductory Probability and Statistical Inference for Secondary Schools,* (Revised preliminary, 1959); Siddons, Snell and Morgan, *A New Calculus, Part I,* (Cambridge Press, 1958).

Prerequisites: Mathematics 91 or 100.

Ten hours lectures a week—3 units.

Mr. Bullen, Mr. Cayford.

202. Calculus.

Introduction to differential and integral calculus, with applications.

Pre-reading: Students who did not complete Mathematics 101 or 120 at the University of British Columbia must have studied Chapter 1 and the first half of Chapter 3 of *Calculus with Analytic Geometry* by A. E. Taylor (Prentice-Hall). Students who completed Mathematics 101 at the University of British Columbia must have studied Chapters 4 and 15 of *Fundamentals of Mathematics* by E. P. Vance (Addison-Wesley).

Text-book: Taylor, *Calculus with Analytic Geometry,* (Prentice-Hall).

Prerequisite: Mathematics 101 or 120.

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

Mr. Clark, Mr. Macskasy.

203. Mathematics for Teachers.

Limited to Faculty of Education students who have attended the course in the winter session and failed to obtain credit in the April examination.

Students should not register for another course.

Text-book: School Mathematics Study Group, *Mathematics Volume 1 (Part I and Part II),* (Yale University, 1959).

Ten hours lectures a week—3 units.

Miss Kilgour.

205. Elementary Statistics.

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

Prerequisite: Mathematics 100, 101, or 120.

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

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

Mr. Simons.

300. Calculus II.

Differential and integral calculus with applications.

Prerequisite: Mathematics 202 or 220.

Text-book: Taylor, *Calculus with Analytic Geometry,* (Prentice-Hall).

Ten hours lectures a week—3 units.

Mr. Kobayashi.

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. Webber.

412. Fundamentals of Analysis.

Set theory, functions, limits, differentiation and integration, series, probability and statistics. Prerequisite: Mathematics 306 or 308.

Ten hours lectures a week—3 units.

Mr. Bressler.

521. Functional Analysis and Applications.

Open to honours graduates in Mathematics or by consent of the Department of Mathematics. Consult instructor as to lecture hours.
Ten hours lectures a week—2 units.
Dr. C. A. Swanson.

MUSIC

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

101. Elementary Theory.

Fundamentals of musicianship.

For credit only in the Faculty of Education.

Limited to 30 students.

Prerequisite to all other courses in music education.

Pre-reading recommended: Bauman and Walton, *Elementary Musicianship,* (Prentice-Hall).

Text-book: Murphy and Stringham, *Creative Harmony and Musicianship,* (Prentice-Hall, 1951 Edition).

Ten hours lectures a week—3 units.

Mr. Davis.

120. Introduction to Music History and Literature.

A survey of music designed primarily for first-year majors in the Department of Music. Open to non-music majors with some background in music.

Limited to 50 students.

Text-book: Willi Apel, *Harvard Dictionary of Music,* (Harvard University Press).

Ten hours lectures a week—3 units.

Miss Alderman.

201. Counterpoint and Advanced Harmony.

A continuation and expansion of the materials studied in Music 101.

Limited to 25 students.

Prerequisite: Music 101 or equivalent training such as A.R.C.T.

For credit only in the Faculty of Education.

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

Ten hours lectures a week—3 units.

Mr. Weisgarber.

302. Instrumental Technics.

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

Limited to 20 students.

For credit only in the Faculty of Education.

Text-books: Prescott, *Getting Results with School Bands,* (Schmitt, 1938); Taylor, *Easy Steps to the Band,* (Conductor's Score and Manual), (Mills Music, 1942).

Prerequisite: Music 201, plus some facility on a brass, reed, or string instrument. (Bring your instrument if possible).

Ten hours lectures and laboratory a week—3 units.

Mr. Clingman, Mr. Ferrin.

303. Choral Techniques and Choral Conducting.

The course is designed for teachers with a knowledge of the elementary rudiments of music and ability to "sight-read" and, preferably, "sight-sing". There will be some preliminary instruction in the Tonic Sol-fa system and its relation to the Staff notation. A series of lectures on accuracy, tone production and application, diction, phrasing, rhythm and interpretation comprises approximately half the course. This is followed by instruction in the art of choral conducting and practice in conducting. The course terminates with each student instructing and conducting the class in a designated part-song.

For credit only in the Faculty of Education.

Text-book: Ehret, *The Choral Conductor's Handbook.*

Prerequisite: Music 201 or equivalent training.

Ten hours lectures and laboratory a week—3 units.

Mr. Gibbard.

326. Music Appreciation.

Designed for students with no musical background.

Ten hours lectures a week—3 units.

Mr. Adaskin.

401. Orchestration and Arranging for Chorus, Band and Orchestra.

The techniques of writing and arranging for various groups of performers.

Limited to 20 students.

For credit only in the Faculty of Education.

Prerequisite: Music 201 or equivalent training.

Ten hours lectures a week—3 units.

Mr. Kalnins.

PHILOSOPHY

100. Introduction to Philosophy.

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

Text-books: Plato, *Republic,* (Oxford University Press, paper-back edition); Hume, *Selections,* (Scribner's, Modern Students' Library, paper-back edition).

Ten hours lectures a week—3 units.

Mr. Mullins.

300. Thomas Aquinas.

A systematic study of Thomistic philosophy. A study of the historical backgrounds, with special attention to Plato, Aristotle, Plotinus and St. Augustine. An evaluation of Thomism in terms of the prevailing philosophical systems of the 12th and 13th centuries.

Prerequisite: Philosophy 100. It is advisable to have taken Ancient Philosophy.

Pre-reading recommended: *Aquinas.*

Text-books: Copleston, *Aquinas,* (Penguin); Philips, *Modern Thomistic Philosophy, Volume II,* (Newman Bookshop).

Ten hours lectures a week—3 units.
Father Allen.

415. Contemporary Philosophy.

Systematic study of some of the major philosophical writings of the present century.

Prerequisite: Philosophy 100. It is advisable to have had one historical course in Philosophy.

Pre-reading recommended: *Problems in Philosophy.*

Text-books: Russell, *Problems in Philosophy,* (Oxford, paper-back edition); Ayer, *The Problem of Knowledge,* (Pelican, paper-back edition); White, *Age of Analysis,* (Mentor, paper-back edition); Warnock, *Ethics since 1900,* (Oxford, 1960 edition).

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

PHYSICAL EDUCATION

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

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

101. Gymnastics I.

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

Text-book: Ministry of Education (Great Britain), *Planning the Programme.*

One hour per day, July 3 - August 10, inclusive—1 unit.
Miss Tilley.

140. Rhythms for Young Children.

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

209. Softball.

Fundamentals and rules.

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

Pre-reading required: Softball Rule Book, 1961.

One hour per day, July 26 - August 16, inclusive—½ unit.
Miss Eckert.

210. Basketball.

Fundamentals, basic drills, simple offensive tactics.

Textbook: McCracken, *Indiana Basketball* (Prentice-Hall, First Edition, 1955).

One hour per day, July 26 - August 16, inclusive—½ unit.
Mr. Pomfret.

213. Grass Hockey.

Fundamentals, basic drills, rules.

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

216. Soccer.

Basic skills, rules, emphasis on playing.

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

Mr. Laithwaite.

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 26 - August 16, inclusive—½ unit.

Miss Schrodt.

219. Volleyball.

Basic skills, rules, team tactics.

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

Miss Eckert.

221. Archery.

Techniques, competitions, care of equipment.

One hour per day, July 26 - August 16, inclusive—½ unit.

Miss Tilley.

229. Weight Training.

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

Prerequisite: P.E. 262 or Anatomy 390.

Text-books: R.A.F., *Principles of Anatomy and Physiology for Physical Training Instructors,* (H.M.S.O., 1959); Murray and Karpovich, *Weight Training in Athletics,* (Prentice-Hall, 1956 Edition); Morgan and Adamson, *Circuit Training,* (Bell and Sons. Ltd., 1957 Edition).

One hour per day, July 26 - August 16, inclusive—½ unit.

Mr. Howell.

230. Swimming.

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

Text-book: Canadian Red Cross Manual.

One hour per day, Section 1: July 3 - July 24, inclusive; Section 2: July 26 - August 16, inclusive—½ unit.

If the registration warrants there will be two sections. *All* students must report July 3 to Empire Pool, prepared to demonstrate their competence.

Mrs. Penney.

240. Dance.

Ballroom; waltz, foxtrot, rhumba.

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

Mr. Vincent.

242. Dance.

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

Prerequisite: Physical Education 240.

One hour per day, July 26 - August 16, inclusive—½ unit.

Mr. Vincent.

243. Dance.

Square, couple.

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

Miss Summers.

250. Track and Field I.

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

Pre-reading recommended: Luke, *Coaching High School Track and Field;* Bresnahan and Tuttle, *Track and Field Athletics.*

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

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

Mr. Phillips.

251. Track and Field II.

Hurdles, pole vault, weight events, distance running.

Pre-reading recommended: Luke, *Coaching High School Track and Field;* Breshnahan and Tuttle, *Track and Field Athletics.*

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

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

Mr. Phillips.

301. Gymnastics III (A).

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

Prerequisite: Physical Education 101 or 201.

One hour per day, July 3 - August 16, inclusive—1 unit.

Mr. Whittle.

310. Advanced Basketball.

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

Prerequisite: Physical Education 210.

Pre-reading required: F. McGuire, *Defensive Basketball;* and *Offensive Basketball.*

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

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

Mr. Pomfret.

360. Principles of Physical Education.

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

One hour per day, July 3 - August 16, inclusive—1 unit.

Mrs. Penney.

361. Correctives.

Posture, first aid, safety education, athletic injuries.

One hour per day, July 3 - August 16, inclusive—1 unit.

Mr. Whittle.

460. Organization and Administration of Physical Education.

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

Prerequisite: P.E. 260 or 360.

Text-book: Voltmer and Esslinger, *The Organization and Administration of Physical Education,* (Third Edition).

One hour per day, July 3 - August 16, inclusive—1 unit.

Mr. Osborne.

470. Tests and Measurements.

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

Text-books: McCloy and Young, *Tests and Measurements in Health and Physical Education,* (Appleton, Century, Crofts, Third Edition); Howell, et al, *Laboratory Syllabus for Tests and Measurements,* (University Bookstore).

One hour per day, July 3 - August 16, inclusive—1½ units.

Mr. Howell.

PHYSICS

Note: It is proposed to offer senior courses according to the following schedule: 1961 — Physics 400; 1962 — Physics 300; 1963 — Physics 308; 1964 — Physics 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.

Text-book: *College Physics,* Mendelhall, Eve, Keys and Sutton, (Fourth edition, 1956).

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

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

Mr. Barton.

200. Intermediate Physics I.

Statics, dynamics, simple harmonic motion, heat, low temperature physics, kinetic theory, electron dynamics, mass spectroscopy, photo-electricity and the Bohr atom.

Text-book: Marshall and Pounder, *Physics,* (MacMillan, Second Edition).

Prerequisite: Physics 101. Mathematics 202 must be taken concurrently or precede this course.

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

Mr. Crooker.

308. Physical Optics.

Geometrical and physical optics; optical instruments, interference, diffraction, polarization, spectroscopy.

Text-book: Jenkins and White, *Fundamentals of Optics.*

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

Mr. Nodwell.

400. Atomic and Nuclear Physics.

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

Text-book: Blanchard, Burnett, Stoner and Weber, *Introduction to Modern Physics.*

Prerequisite: Physics 300 or 303.

Ten hours lectures a week—3 units.

Mr. Veit.

POLITICAL SCIENCE

201. Governments of Britain and the United States.

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

Prerequisite: Second Year standing.

Text-books: Stout, *British Government,* (Oxford University Press, 1953 Edition); Bruce, *American National Government,* (Holt, 1957 Edition).

Ten hours lectures a week—3 units.

301. European Governments.

A survey of the governments and politics of some of the following countries: France, Germany, Italy, the Netherlands, Belgium, Switzerland, the Scandinavian countries, the "People's Democracies" of Eastern Europe, the U.S.S.R.

Text-book: Neuman, *European and Comparative Government,* (McGraw-Hill, Third Edition).

Ten hours lectures a week—3 units.

Mr. Laponce.

PSYCHOLOGY

Psychology 100 is prerequisite to all other courses in Psychology.

100. Introductory Psychology.

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

Text-book: *Interpretive Psychology,* Chant and Signori, (McGraw-Hill, Toronto, 1957).

Ten hours lectures a week—3 units.

Mr. MacKay.

201. Social Psychology.

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

Prerequisite: Psychology 100.

Text-book: D. Krech and R. S. Crutchfield, *Theory and Problems of Social Psychology,* (McGraw-Hill, First Edition).

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 201 or 202 or 204.

Ten hours lectures a week—3 units.

Mr. Belyea.

305. Personality Theory.

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

Prerequisite: Psychology 201 or 202 or 204.

Ten hours lectures a week—3 units.

Mr. Signori.

405. Learning.

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

Prerequisite: Psychology 201 or 202 or 204.

Ten hours lectures a week—3 units.

Mr. Kenny.

410. Research Methodology.

Use of statistical techniques utilized in summarizing and drawing conclusions from psychological research, with special attention given to the relation of statistics to the design of experiments.

Prerequisite: Psychology 201 or 202 or 204.

Text-book: Ferguson, *Statistical Analysis in Psychology and Education,* (McGraw-Hill).

Ten hours lectures a week—3 units.

Mr. Fraser.

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.

Text-book: Gronicka, *Essentials of Russian.*

Ten hours lectures a week—3 units.

300. Nineteenth and Twentieth Century Russian Literature.

Texts. 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.

Ten hours lectures a week—3 units.

Miss Carlsen.

SOCIOLOGY

200. Introduction to Sociology.

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

Prerequisite: Second Year standing.

Ten hours lectures a week—3 units.

Mr. Richmond.

440. Honours Seminar.

Discussion of research monographs and methods. Credit requisite: Honours or graduate standing or written permission of Head of Department.

Ten hours lectures a week—3 units.

Mr. Guindon.

SPANISH

90. Beginners' Spanish.

Grammar, composition, translation.

Text-books: Rogers, *Spanish for the First Year,* (The Macmillan Company, 1957); Kasten and Neale-Silva, *Lecturas Escogidas,* (Harper, 1954).

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

Mr. Bartroli.

110, 120.

First Year University Spanish. Grammar, composition, translation, conversation, reading. Register for appropriate course.

Text-books: Ramsden, *An Essential Course in Modern Spanish,* (George G. Harrap, 1959); Patt and Nozick, *The Generation of 1898 and After,* (Dodd, Mead, 1960).

Required preliminary reading: There will be a test at the end of the first week on Azorín, "Selections from *Las confesiones de un pequeño filósofo*" in *The Generation of 1898 and After.*

Prerequisites: 110—Spanish 20 or pass standing in Spanish 90.
120—Spanish 92 or Second Class or better standing in Spanish 90.

Ten hours lectures a week—3 units.

Mr. McDonald.

THEATRE

300. Theatre Practice.

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

Limited to 40 students who have completed at least First Year.

Text-books: McGaw, *Acting is Believing,* (Rinehart, 1957 Edition); Anderson, *Training the Speaking Voice,* (Oxford, 1955 Edition).

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.

Miss Gemmill, Mr. Thorne.

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

Ten hours lectures a week—3 units.

Miss Stevenson.

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).

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

303. Vertebrate Physiology.

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

Prerequisite: Chemistry 101 or 102, Zoology 105.

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

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

Mr. Hoar.

SUMMER SESSION REGISTRATION — 1960

Credit Courses

MEN	WOMEN	TOTAL
2123	2133	4256

CORRESPONDENCE CREDIT COURSES

Students are reminded that the following correspondence courses are available: Economics 306, Education 430 (formerly 520), English 200, English 429, French 210, History 313, Philosophy 100, Psychology 100.

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

Department of University Extension

SUMMER SCHOOL OF THE ARTS

July 3 to August 19

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. In recent years particularly, the Summer School has developed into an important influence in the life of the immediate community of the Canadian west, through a steadily increasing programme of training, experiment, and production. Leading instructors have been attracted to its climate of creative congeniality, and students have found the kind of opportunity and experience that prepares them for participation and leadership in the various directions of the arts.

This year's Summer School will offer, as in the past, comprehensive training in theatre under such outstanding figures as Robert Gill of Hart House Theatre in Toronto; courses in arts, under Shoji Hamada, Ulfert Wilke, Don Jarvis, and others, include painting, drawing, and sculpture; dance for the third year under the American dancer, teacher, and choreographer, Jean Erdman; radio, television, and film study and production; and an expanded School of Music that will encompass training in all aspects of music for students from elementary to advanced status.

There will be many special events during the summer, and a continuing close liaison with the Vancouver International Festival, which, in its fourth year, offers unusual advantages to students and instructors to enjoy and profit by performances by artists from all over the world.

Scholarships

Foundation, community and business organizations generously continue to support the Summer School of the Arts through scholarships and bursaries. 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 should make application by May 1st. Grants and Scholarships are also available from the Canada Council, and interested students should write to the Secretary, The Canada Council, 140 Wellington Street, Ottawa, Ontario, for further information.

Information

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

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

Railway Fares

For information on reduced railway fares see page 21.

STAFF

Theatre

ROBERT GILL, M.A., Guest Director.
DOROTHY SOMERSET, A.B., Director of Summer School of Theatre.
DONALD SOULE, Ph.D., Associate Director of Summer School of Theatre.
JANIE STEVENSON, L.R.A.M., L.G.S.M., A.L.A.M.
BETTY GEMMILL.
IAN THORNE, L.R.A.M., L.G.S.M.

NORMAN YOUNG, B.A.
CLIFF ROBINSON.
MARY POVAH.
GERALDINE RICHARDSON.

Music

G. WELTON MARQUIS, B.A., M.A., Ph.D., Director of Summer School of Music.
HANS-KARL PILTZ, B.A., M.M., Assistant-Director of Summer School of Music.
HANS L. BEER, Director of Opera Workshop.
FRENCH TICKNER, Assistant Director and Stage Manager.
ELLIOT WEISGARBER, Clarinet and Flute.
CORTLAND HULTBERG, Oboe and Bassoon.
ALLEN CLINGMAN, Trumpet.
FRANK GAMBLE, Chorus and Theory.

Art

SHOJI HAMADA.
ULFERT WILKE.
DON JARVIS.

Dance

JEAN ERDMAN, Guest Director.
PENELOPE SHAW, Assistant to Miss Erdman.
HELEN GOODWIN.
CORTLAND HULTBERG.
DON JARVIS.
HARRY LOCKE.

Lecture Series

ALAN JARVIS.
Dr. WILLIAM BLATZ.

SUMMER SCHOOL OF THEATRE

July 3 to August 19

The Summer School of Theatre is proud of its reputation for providing sound training and practical experience in theatre under the guidance of a staff of highly qualified and distinguished instructors. It is proud also of its many former students who have gone on to make valuable contributions to Canadian theatre. Through its programme of credit and non-credit courses the School seeks to serve four categories of students: those hoping to proceed eventually to a career in theatre, those wishing to participate in community theatre, teachers in charge of drama programmes in the schools, and those with a general interest in the critical appreciation of theatre. In addition to their regular classes students have the opportunity of participating in the full production of a play or in a series of studio performances.

STAFF

Robert Gill, M.A. (Carnegie Institute of Technology): Mr. Gill, who is the Director of Hart House Theatre in Toronto, is one of Canada's most distinguished theatre men. As producer and teacher he has made an important contribution to Canadian theatre, both in the East and in British Columbia, where he has for many years been associated with the Summer Schools of Theatre and Opera.

Dorothy Somerset, A.B. (Radcliffe). Director, Summer School of Theatre: Teacher and director, retiring head of the Department of Theatre, Miss Somerset has contributed significantly to the development of nearly every aspect of Canadian theatre.

Donald Soule, Ph.D. (Stanford). Assistant Professor of Theatre; Associate Director, Summer School of Theatre: Director, actor and playwright, Dr. Soule managed and directed his own repertory and touring companies in Wisconsin before coming to the University of British Columbia.

Janie S. Stevenson, L.R.A.M., L.G.S.M., A.L.A.M.: Presently teaching courses in Children's Theatre and in Speech for the University's College of Education, Miss Stevenson has had a wide experience as teacher, director and adjudicator in her native Scotland and in British Columbia.

Betty Gemmill: A member of the staff of the Summer School of Theatre for the past three years, singer and teacher of singing and speech, Miss Gemmill has her own studio in Toronto and has taught for both the School of Music and the Department of Extension of the University of Toronto.

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. His professional activities include legitimate theatre, radio and television.

Norman Young, B.A. (British Columbia). Technical Director and Lecturer: Before joining the staff of the University's Department of Theatre Mr. Young was Staging Supervisor - Design Director for the Canadian Broadcasting Corporation in Ottawa, and for the past three summers he has been associated with the Vancouver International Festival as Stage-Manager and Production-Manager.

Cliff Robinson: Member of the Canadian Society of Painter-Etchers and Engravers, and of the Canadian Society of Graphic Artists, well known theatre designer and former head of the Arts and Crafts Division of the Extension Department at the University of British Columbia, Mr. Robinson served for more than four years as Director of Design and Staging for the television studios of the Canadian Broadcasting Corporation in Vancouver.

Mary Povah: A member of the Costume Department of the Summer School of Theatre in 1960, is returning to the University for the Summer Session of 1961 as instructor of costuming. She will be joined by **Geraldine Richardson** who has had wide experience in theatrical costuming with many producing groups, including the Vancouver International Festival.

COURSES

Theatre Practice: Acting I and Speech I

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

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

Acting I: Principles of acting, improvisation, creating a character, the body as an instrument of expression, class presentation of acting scenes.

Speech I: Breath control, voice production, tone quality, clarity and projection, interpretation of the spoken line.

Students having the equivalent of Acting I or Speech I may apply to the Director of the School for permission to take Acting II or Speech II.

Ten hours a week.

Mr. Thorne, Miss Gemmill.

Acting II:

Advanced acting class. Students will be asked to prepare scenes for class discussion and criticism.

Prerequisite: Acting I (or its equivalent) and the consent of the instructor.

Five hours a week.

Mr. Gill.

Speech II:

Advanced work stressing efficient and expressive speech. Students will be asked to prepare selections for individual discussion and criticism.

Prerequisite: Speech I (or its equivalent) and the consent of the instructor.

Five hours a week.

Miss Stevenson.

Stage Movement:

Practice in body mechanics for the actor. Some attention will also be given to Commedia dell' Arte.

Miss Somerset.

Directing:

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

Prerequisite: A course in Acting I and Speech I equivalent to that offered at the Summer School of Theatre, and the consent of the instructor (based on the student's previous experience in acting or directing plays). Mature students with considerable acting or directing experience, but without the prerequisites of Acting I or Speech I, will, upon the consent of the instructor, be admitted to this course.

Ten hours a week.

Dr. Soule.

Children's Theatre:

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

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

Ten hours a week.

Miss Stevenson.

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, Miss Povah, Mrs. Richardson, and staff.

Scene Design:

The principles of design as applied to the interpretation of plays and the creation of their stage settings. A three weeks' Evening Course offered between July 25 and August 11.

Mr. Robinson.

Participation in a Play:

All students will have the opportunity of participating in the production of a play presented in the final week of the School, or in performances of studio scenes. 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:

7.00 p.m. — 8.00 p.m., definite days to be announced at opening meeting of school.

Scene Design:

July 24 to August 11. 8.00 p.m. to 10.00 p.m.

Theatre History:

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

Opening Meeting of the School:

Monday, July 3, at 10.00 a.m. in the University Auditorium. (All students required to attend.)

Fees:

Full non-credit course (Two or more subjects)	$75.00
Theatre 300 or 301 (for credits)	$66.00
(Credit students taking an additional non-credit course will be required to pay an additional $9.00.)	
Single non-credit subject	$37.50

Stagecrafts and Scene Design Laboratory fees ..... $ 2.00
Summer Session Association fee ..... $ 2.00

N.B.—Participation in performances is included in all the above.

N.B.—Theatre 300 and 301 (credit courses) are available to both credit and non-credit students. Credit students, instead of applying to the Extension Department, must complete their registration through the Registrar's Office by June 1.
See page 12 for regulations.

Scholarships and Bursaries:

Applications for scholarships and bursaries must be received by May 1. Information concerning applications will be forwarded upon request.

Creative Drama:

Allied to the Summer School of Theatre courses, a series of classes in Creative Drama for Children of 9 to 11 years will be offered. In these classes the children will be guided towards creative and imaginative expression. They will be encouraged to develop their own situations and stories and by doing so to experience the satisfaction of bringing their own ideas alive through improvised movement and speech.

Instructor — Miss Janie Stevenson.

July 17 — August 4.

Mondays, Wednesdays and Fridays. 3.45 p.m. — 4.45 p.m. Hut G4.

Fee: $6.00.

The classes will be limited to 20 children.

SUMMER SCHOOL OF MUSIC

July 3 to August 12

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

In general, students in all areas will pay a fee which entitles them to enroll in all courses in a selected programme. However, courses in the Opera Workshop may be selected separately upon payment of individual fees.

Hans-Karl Piltz, B.A., M.M.: Director of the Summer School of Music. Assistant Professor of Music, the 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.

OPERA WORKSHOP

July 3 to August 12

STAFF

Hans L. Beer: Associate director of Opera, University of Southern California, graduate of the Music Academy of Munich, Germany, and a former student in dramatic composition with Carl Orff. Since coming to the United States in 1955, he has been active in opera productions in the Los Angeles area. His most recent composition, a ballet score on "sappho" has received performances in Germany and in California.

French Tickner: Drama Coach, Stage Make-up Instructor, and Stage Director for the Oera Theatre of the University of Southern California. A graduate of Miliken University and the University of Illinois, Mr. Tickner has

been general Manager-Director of the Tucson Civic Opera, Producer-Director for the U.S. Navy Special Services, and has sung, among others, major roles in "Die Meistersinger", "Carmen", "Salome", and "The Medium".

Coach-Accompanists: To be announced.

Technical Assistants: Members of the Summer School of Theatre.

The primary purpose of this course is to encourage talented vocalists (with or without experience in opera) who wish to participate in operatic performances and gain experience in styles and acting. All students will have an opportunity to study *Acting* and *Stage Movement*, listed in this catalogue on page 66 under SUMMER SCHOOL OF THEATRE.

A full scale production of at least one opera will be the climax of a six weeks' course of study. In addition to the opera a number of public recitals of excerpts from operatic repertoire will be staged.

Operas performed in the past have included Cimerosa's "Secret Marriage", Puccini's "Il Tabarro", Rossini's "The Mail Order Bride", Mozart's "Cosi Fan Tutti", and Menotti's "The Consul".

ACTIVITIES AND FEES

Full Course	$75.00
Acting I or II (times to be arranged)	$35.00
Stage Movement (times to be arranged)	$35.00
Opera Workshop (afternoon session)	$25.00
Opera Workshop (evening session)	$25.00
Summer Session Association Fee	$ 2.00

SCHOLARSHIPS AND BURSARIES:

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

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

Applications must be accompanied by letters giving full particulars of previous training and experience, as well as by two letters of recommendation from persons with a knowledge of the candidate's musical ability.

HIGH SCHOOL BAND AND ORCHESTRA WORKSHOP

July 3 to July 22

STAFF

ELLIOT WEISGARBER: Clarinet and Flute.

CORTLAND HULTBERG: Oboe and Bassoon.

ALLEN CLINGMAN: Trumpet.

FRANK GAMBLE: Chorus and Theory.

Directors of Band and Orchestra and Lower Brass specialist to be announced.

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

In addition to a Concert Band and a Concert Orchestra of high technical calibre, training groups will be formed for those students who have not advanced technically as much as others. The Concert Band and Concert Orchestra will each present three public programmes on the U.B.C. campus during the Workshop session. Recitals of music by Brass, Woodwind, and String ensembles will also be featured.

Students of high school age (13 through 18) are eligible to attend, although some younger students will be accepted in the string part of the programme. A

limited number of bursaries will be available to students unable to finance their attendance.

As the High School Band and Orchestra Workshop extends for three weeks, seven days a week, housing and meals will be provided on the University campus. Counsellors and athletic directors will be on the Summer School of Music staff for guidance and supervision.

SCHEDULE OF ACTIVITIES

8.30 a.m. - 9.30 a.m.
"Theory" (Sight Singing, Eartraining, Harmony, Composition, Conducting, Music History.)

9.50 a.m. - 11.50 a.m.
Concert Band Rehearsal, Concert Orchestra Rehearsal (strings), Chamber Music, Training Band and Training Orchestra Rehearsals.

1.30 p.m. - 3.30 p.m.
Concert Band Section Rehearsals (Upper Brass, Lower Brass, Single Reed, Double Reed), Concert Orchestra Rehearsal, Chorus (for Training Band and Orchestra members).

4.00 p.m. - 5.30 p.m.
Sports and Recreation.

7.30 p.m. - 9.00 p.m.
Evening Programme (recitals, entertainment, recreation.)

FEES

Tuition	$45.00
Room and Board	$45.50

SCHOLARSHIPS AND BURSARIES:

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

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

SUMMER SCHOOL OF ARTS AND CRAFTS

July 3 to August 12

The Department of University Extension continues its summer programme of courses in the field of the arts and crafts. The staff of outstanding guest instructors has been drawn from Canada, the United States and Japan. It is a particular pleasure to welcome as instructor in ceramics the internationally known artist Mr. Shoji Hamada.

STAFF

PAINTING: ULFERT WILKE: Studied in Germany, France and at Harvard in the U.S.A. He has exhibited widely in Europe and the U.S. He joined the staff of the University of Louisville, Kentucky in 1948 and from 1955-1956 was visiting professor at the University of Georgia. At present he is studying in Europe on a Guggenheim Fellowship.

SCULPTURE: To be announced.

CERAMICS: SHOJI HAMADA: Graduate of the Tokyo Technical School. In 1920 he worked with outstanding author and ceramicist, Bernard Leach, in England, establishing the St. Ives Institute in Cornwall. In 1952 he was the Japanese delegate to the world ceramics conference in England, and the following year he exhibited and lectured in the U.S.A. He now lives at Mashiko, 50 miles north of Tokyo, where he has developed a thriving pottery and ceramics centre.

DRAWING: DON JARVIS: Studied at the Vancouver School of Art, was awarded an Emily Carr Scholarship in 1948, and studied under Hans Hofmann in New York in 1949. He is at present instructor in painting and drawing at the Vancouver School of Art. In addition to one-man shows his work has been included in numerous Canadian and international exhibitions, and is represented in permanent collections of the major Canadian Galleries.

COURSES

CERAMICS (ADVANCED): Three weeks course
Date to be announced.

Ceramic classes for the advanced student with substantial previous training will be held in the evenings and afternoons. These classes will be limited and pre-registration is advised.

Time: 1:30 p.m. - 4:30 p.m. 7:30 p.m. - 9:30 p.m. Monday through Friday.

Place: Ceramics Hut, Acadia Camp.

Fee: $50.00 including Laboratory fee.

Instructor: Shoji Hamada.

SCULPTOR'S STUDIO: July 3 - August 12

This course is designed for beginning, intermediate and advanced sculpture students, and is devoted to developing a groundwork in the sculptor's media, stone, wood and clay modelling, with some work from life. Instruction will be on a tutorial basis and will take into consideration individual needs.

Time: 10:00 - 12:00 a.m. 2:00 - 4:00 p.m. Monday through Friday.

Place: Sculpture Hut, Arts and Crafts Centre, Acadia Camp.

Fee: $50.00 including Laboratory fee.

Instructor: To be announced.

DRAWING FOR PAINTERS: July 3 - August 12

A course in the fundamental drawing principles and processes. The aim is to establish a sound approach which will aid the painter in his search for form in his environment. The use of 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.

Time: 1:30 - 3:30 p.m. Monday, Wednesday, Friday.

Place: Architecture Hut O-16.

Fee: $20.00 including model's fee.

Instructor: Don Jarvis.

PAINTER'S STUDIO: July 17 - August 12

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

Section A: For more 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, including model's fee.

Instructor: Ulfert Wilke.

SPECIAL EVENTS:

EXHIBIT OF STUDENT WORK:

An outdoor exhibition by Summer School of the Arts Students will be held August 11 and 12 from 10:00 a.m. to 10:00 p.m. at the Arts and Crafts Centre, Acadia camp.

INTERNATIONAL SEMINAR ON THE ARTS

In connection with the 25th anniversary year of the Extension Department, arrangements have been made for a special seminar to be conducted at the University under the title "The Artist and Audience in Contemporary Art". Several Extension Directors and others connected with the Arts in Canada and the United States will discuss this subject with faculty members and community leaders. Participants will also attend and discuss a number of artistic productions offered by the University and the Vancouver International Festival while they are here.

SCHOLARSHIPS AND BURSARIES

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

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

Applications must be accompanied by letters giving full particulars of previous training and experience, as well as by two letters of recommendation from persons with a knowledge of the candidate's artistic ability. Applicants are also asked to enclose photographs or colored transparencies with their letter of application.

SUMMER SCHOOL OF DANCE

July 3 to August 11

GUEST DIRECTOR — JEAN ERDMAN

The Summer School of the Arts is once again providing an opportunity for students of the dance to take part in a creative experiment "The New Theatre of Dance" being conducted by the Summer School of Dance.

Returning for her third summer, Miss Jean Erdman, as the School's Guest Director, will supervise a 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, wherein the student obtains resource material in movement, music and design, and Workshop II, in which this material is developed and applied to problems in dance composition.

STAFF

Jean Erdman: Leading American dancer, teacher and choreographer, responsible for some of the most advanced innovations in the dance to be seen in North America. Miss Erdman has performed as solo concert artist and now heads her recently formed New York company.

Penelope Shaw: Assistant to Miss Erdman and a member of the Jean Erdman Dance Company.

Helen Goodwin: Lecturer in dance to the School of Physical Education and Recreation and College of Education has been responsible for the organization of the Summer School of Dance, and will act as co-ordinator before and during the session.

Cortland Hultberg: Instructor in music theory for the University of British Columbia's Music Department and a composer in his own right.

Don Jarvis: Well-known Canadian artist and member of the faculty of the Vancouver School of Art.

Harry Locke: Music Instructor to University Hill High School and well-known local composer.

Other instructors to be announced.

"THE NEW THEATRE OF DANCE"

WORKSHOP I

Courses

A. THE ART OF MOVEMENT

This course aims to provide the student with a thorough understanding of the nature of movement, comprising analysis, observation and subsequent mastery of this medium as the artist's means of communication.

Two instructors will be conducting the course, Miss Erdman, who as artist and choreographer, is vitally concerned with the communicative aspect of movement, and one other visiting instructor who will present the Laban theories of movement analysis and observation.

Time: Monday through Friday. 8:15 a.m. - 10:15 a.m.

Place: Dance Studio.

Instructors: Jean Erdman. Other instructor to be announced.

B. MUSIC

An integral part of the dance courses, the study of music is designed primarily to acquaint the dancer with contemporary developments in music. Some analysis of the formal structure of composition will be undertaken with a view to utilizing this knowledge as a springboard for further understanding of form in dance.

Throughout the course student choreographers will have an opportunity to work closely with Mr. Harry Locke who, as composer and accompanist, will be assisting in the work of the school.

Time: Monday, Wednesday, Friday. 10:30 a.m. - 11:30 a.m.

Place: Dance Studio.

Instructor: Cortland Hultberg.

C. DESIGN

A short course designed to give the student experience in those aspects of design which are of special significance to the dancer. Line, shape and colour will be treated in a non-objective manner in an attempt to develop in the student an awareness of the intrinsic life of these elements in relationship to one another and especially in terms of movement. This will be a practical session working closely with the dance courses and developing with them into creative composition and production.

Time: Thursday. 1:30 p.m. - 5:00 p.m.

Place: to be announced.

Instructor: Don Jarvis.

WORKSHOP II

Courses

A. DANCE TECHNIQUE

This section of the work will deal exclusively with the systematic training of the body as an instrument of expression. Classes will be concerned with technical skills graded to suit the varying abilities of the group.

Time: Monday through Friday. 11:30 a.m. - 12:30 p.m.

Place: Dance Studio.

Instructors: Jean Erdman. Penelope Shaw.

B. DANCE COMPOSITION AND PRODUCTION

Here the resource material being studied in Workshop I courses is to be developed and applied to problems in dance composition. Original works, which emerge as a result of the experiments will then be presented in a theatrical performance prepared by student choreographers under Miss Erdman's supervision.

Time: Monday, Tuesday, Wednesday, Friday. 2:00 p.m. - 5:00 p.m.

Place: Dance Studio.

Instructor: Jean Erdman assisted by Penelope Shaw.

SPECIAL EVENTS

A dance recital given by Miss Erdman with members of the Erdman Dance Company. Time: 8.30 p.m. UBC Auditorium. July 21.

"THE NEW THEATRE OF DANCE" — A dance programme composed and performed by students of the Summer School of Dance.

JUNIOR DANCE CAMP. July 10th - 21st. Further details to be announced.

FEES

Full non-credit course	$75.00
Either Workshop I or Workshop II	$50.00
Any separate course	$35.00
Summer Session Association Fee	$ 2.00

Students interested in obtaining credit for the above course (either B.P.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 1st 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 1st to the:

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

SUMMER SCHOOL ON PUBLIC AFFAIRS AND SPECIAL PROGRAMMES — 1961

Again this year a number of non-credit courses in the fields of public affairs, communications, teacher refresher courses, pre-school education and professional in-service training will be offered as part of the Summer School programme. Further information about these courses may be obtained by writing either to the point of reference mentioned in the separate sections or to:

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

PUBLIC AFFAIRS COURSES

The third annual Summer School on Public Affairs will be conducted during the Summer School period. It will consist of a variety of events designed to bring before Canadians authoritative information and well based opinion concerning problems facing the Canadian people.

Once again this year there will be a Public Affairs Lecture Series on the Tuesday evenings in July.

The five-day seminars which have in the past been conducted on such subjects as Japan, Malaya, India and Africa South of the Sahara, will be continued in 1961. At the time of writing, arrangements have been initiated to the end that

one on Israel will be conducted this summer, but this decision is not yet final. Further details about this seminar, which will be conducted in the week of July 24, will be made available as soon as possible.

The Summer School on Public Affairs will be pleased again this year to assist with the Ninth Annual United Nations Seminar for High School Students which will be held at the University, August 27 to September 1. Enquiries about this event should be directed to: The United Nations Association, 1300 Robson Street, Vancouver 5, B.C.

It is hoped that at least two other events on problems of provincial and national scope will be added to the summer program this year.

Details on all of these programs may be obtained after April 1 by phoning the Extension Department or by writing:

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

OTHER SPECIAL PROGRAMMES

3rd SUMMER SCHOOL OF COMMUNICATIONS

July 17 to August 4

Seminar on Communications — 4:30 - 6:00 p.m.

Alan M. Thomas. — U.B.C.

An investigation of basic aspects of communication theory and media study. The Seminar will draw heavily on the experience of participants in the exploration of the nature of political, economic, social and artistic characteristics and effects of the mass media and other forms of communications. The Seminar is designed as a basic undertaking for all those interested in the field of communications.

Fee: $35.00. Applications limited.

Speech for Broadcasting — 1:30 - 4:00 p.m.

Instructor: To be announced.

The course will cover standards of speech for Canadian Broadcasters; Canadian English; reading aloud of different types of material emphasizing ear appeal; training in the ability to enforce fine gradations of meaning; use of inflections; several aspects of pronunciation will be given emphasis—"acceptable" pronunciation, and accent according to stress and function. Anglicizing of foreign words, etc. and a short survey of dictionaries and speech texts. An elementary understanding of voice mechanism will be provided with a special stress on articulation. The student will be given special help with respect to problems of production, such as hoarseness, harshness, and nasality. Some time will be given to means of increasing power of persuasion.

Fee: $35.00. Limited to 30 people.

Film Production — 9:00 - 11;30 a.m.

Instructor: David Bennett.

The course will be divided into three parts: (a) basic treatment of film production methods and procedures including script development for both documentary and dramatic film; the organization of the camera crew; an examination of the director's role and of the stages of film production. (b) Film technique — the analysis of advanced film techniques and their effective use in film production. (c) Practical exercise — the class will be required to prepare a number of shooting scripts for a fifteen minute film. The best script will be produced by the class.

Fee: $35.00. Lab. Fee: $20.00. Limited to 30 people.

Some scholarships will be available for this course. Please apply stating experience and background.

Other courses will be announced later.

Students will be expected to register for the Seminar as well as any other course they wish to take.

DEMONSTRATION COURSE IN PRE-SCHOOL METHODS

July 3 to 21.

Monday to Friday, 9:30 a.m. to 3:00 p.m., in Hut 41, Acadia Camp, University Campus.

Fee: $35. Since registration must be limited, applications should be received before June 1, 1961.

This course is designed to provide instruction, demonstration and practice in the principles and methods of pre-school education. During morning sessions students will observe classes of four and five-year-old children. Afternoon sessions will be lecture-discussion periods, correlated with the morning's observation. 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 Welfare. This course is also correlated with the correspondence course, "Child Development and Pre-School Education", offered by the Extension Department of the University of B.C.

SCIENCE AND SOCIAL STUDIES FOR PRE-SCHOOL CHILDREN

The nature of the pre-school child in relation to his physical-social environment. A practical course in *what* we teach and *how* we teach to help bring about understanding, skills and positive attitudes, leading to further growth in these two related areas.

Sessions: 9:30 a.m. to 12 noon, Monday through Friday, July 24 to 28 and July 31 to August 4, 1961.

Fee: $12.

LANGUAGE AND LITERATURE FOR PRE-SCHOOL CHILDREN

Experiences in the language arts for pre-school children. The course will deal with the development of children's literature, the selection of suitable stories and verse to meet the various needs of pre-school children, library resources, story reading and story telling techniques, informal dramatization and ways of fostering good speech habits in young children.

Sessions: 1:30 p.m. to 4:00 p.m., Monday through Friday, July 24 to 28 and July 31 to August 4, 1961.

Fee: $12.

The above two courses have been approved by the Welfare Institutions Board as the equivalent of the two corresponding evening classes in the pre-school supervisor training series. Students may register for only one, or both, as they desire. Those not interested in Welfare Institutions Board credits may also register for these workshop courses. If space permits, persons able to take only one week will be permitted to register, but only for the week of July 24 to 28, to avoid disruption of the classes.

NURSERY AND KINDERGARTEN FACILITIES

There will be three demonstration pre-school groups operating for a five-week period, July 3 to August 4. Centres will be located on or near the University Campus and will enroll children who are 4, 5 or just turned 6 years of age.

Please apply to the Extension Department, Pre-school Education Program, University of B.C., Vancouver 8, B.C. Fee for the 5-week period is $12.50.

Advance application by May 31, 1961 is highly desirable. Late applications will be considered if space is available.

FESTIVAL PREVIEW

Alan Jarvis, leading art authority, will conduct a series of noon-hour interviews with visiting artists of the Vancouver 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, literature, dance and the visual arts.

These events, sponsored jointly by the Summer School and the Summer Session Association will be open to all Summer School students and to the general public. They will be held in Buchanan 106, Monday, Tuesday and Thursday at 12:30 p.m. from July 17 to August 3, 1961.

In addition distinguished speakers will lecture on the Fine Arts four Thursday evenings in July while evening lectures on Public Affairs will be offered on four Tuesday evenings in July.

CONFERENCE ON PROBLEMS AND TRENDS IN ELEMENTARY EDUCATION

The Elementary Division of the Faculty and College of Education is sponsoring a Conference to discuss current problems and trends in elementary education. Membership at the Conference will be by invitation. The Conference will be in session from July 17th to July 21st. The sessions will consist of lectures by authorities in the field, group and panel discussions. Further information can be obtained from Dr. F. H. Johnson, Director of Elementary Teacher Education, University of British Columbia.

TEACHER IN-SERVICE WORKSHOPS AND SHORT COURSES

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

These will be non-credit courses that will stress practical new ideas and materials. Lectures and group discussions will be used.

Registration will be limited to 30 persons in each course, except for the principals' course where a larger number may be provided for if there is sufficient demand.

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

The fee for each course will be $25.00.

Each course will be held on Campus, Monday to Friday, for five hours each day (except for the two Gifted Child courses as noted below).

Workshop: Teaching Methods in Primary Reading.

July 3rd to July 14th.

Workshop: Teaching Methods in Elementary School Music and Art.

July 3rd to July 14th.

Workshop: Techniques in Teaching Gifted Children in the Elementary School.

This course is primarily designed for those already teaching the gifted but applications from other teachers interested in the field will be considered.

July 10th to July 21st. In order to permit those interested to take Education 408 (Teaching the Mentally Superior) for credit, this workshop will begin at 10:30 a.m. each day and last four hours (with an intermsision for lunch).

Workshop: Techniques in Teaching English to Gifted Children in the Secondary School.

This course is primarily designed for those already teaching English in High School, but applications from other teachers interested in the field will be considered.

Workshop: Problems of the Beginning Principal.

This course will be largely organized by the officers of the B.C. Principals' Association. It will be designed for those principals who are relatively new in their positions and for vice-principals and other teachers who want to prepare themselves for principalship.

July 31st to August 11th.

FOURTH ANNUAL VANCOUVER INTERNATIONAL FESTIVAL
JULY 10 — AUGUST 19

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

JULY 10 — JULY 22
The Vancouver International Film Festival, Vogue Theatre.
Four hundred film entries from at least 25 countries.

JULY 14 — JULY 22
A spectacular military searchlight Tattoo, Empire Stadium. Staged by the Edinburgh Tattoo's Brigadier Alasdair Maclean with a naval, army and airforce cast of more than one thousand.

JULY 26 — AUGUST 19
The Arts Festival, in the Queen Elizabeth Theatre and other downtown theatres.

INCLUDING:

- **The western hemisphere premiere of Benjamin Britten's "*A Midsummer Night's Dream*" with Russell Oberlin as Oberon, Mary Costa as Titania, Jan Rubes as Bottom.**
- **The English version of Gratien Gelinas' drama, *Bousile et les Justes* featuring Gelinas in the title role with a cast from the Comedie Canadienne.**
- **Glenn Gould as performer, conductor and commentator in an all-Bach concert, and a performance of the Brahms Concerto No. 1.**
- **Les Disciples de Massenet directed by Charles Goulet, M.D.**
- **Bombay-born conductor Zubin Mehta and other conductors to be announced, with the Festival Symphony Orchestra.**
- **American violinist Isaac Stern, and other artists to be announced.**
- **Exhibitions of original Picasso lino-cuts and the works of Ontario Artists.**

For further information on the 1961 Vancouver International Festival, and the privileges of membership in the Vancouver Festival Society write or telephone the Vancouver Festival Society, Hotel Vancouver, Vancouver 1. (570 Dunsmuir Street after March 1) MUtual 3-3395.

Box Office opens for mail orders April 17 . . . wicket sales April 24. Main Box Office, Queen Elizabeth Theatre, MUtual 3-2311.

Memo

Dr. Welton Marquis

Alan Thomas

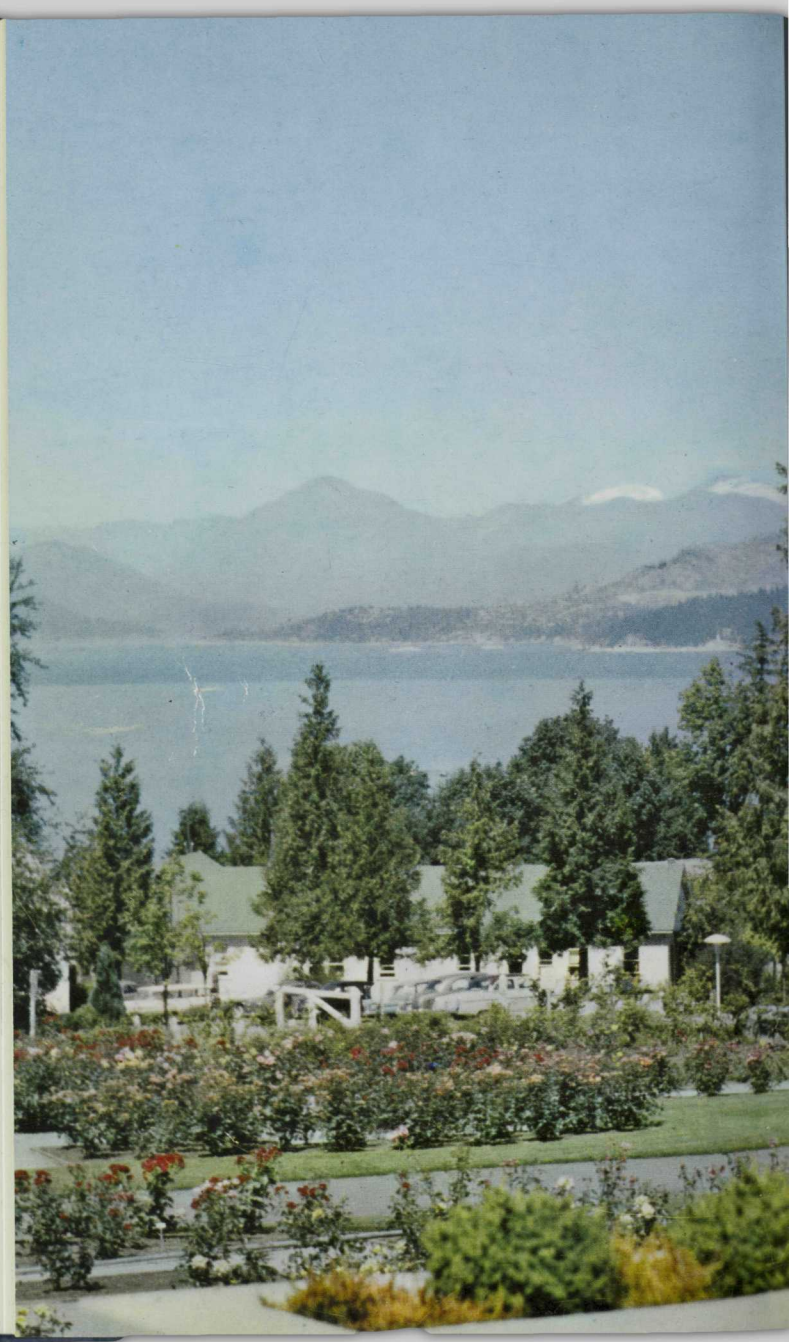
Donald Soule

Hans Karl Piltz

Don Jarvis

Robert Gill

Dorothy Summerset

Allan Jarvis

Jean Erdman