PUBLICATIONS OF THE UNIVERSITY OF BRITISH COLUMBIA

Announcement of The Summer Session

SUPPLEMENT TO CALENDAR 1964-65

Forty-sixth Session: JULY 5 to AUGUST 20, 1965

The University of British Columbia

VANCOUVER 8, CANADA

Vol. 50, GENERAL SERIES No. 3

SUMMER SESSION, 1965

DATES

MAY		
10	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 should have made application and submitted all necessary documents by this date.
25	Tuesday	Last day for registration without late penalty.
JUNE		
14	Monday	Last day for registration. (Late fee assessed after May 25.)
JULY		
5	Monday	*Last permissible day for changes in students' courses; a $5.00 fee will be assessed for each change in course. Lectures begin at 8:15 a.m.
6	Tuesday	*All changes in registration for courses must be reported to the Registrar's Office by this date.*
12	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		
18	Wednesday	Last day of lectures.
19	Thursday	Final Examinations. There will be three examination periods each day, the third commencing in the late afternoon.
20	Friday	

*The last day for registration is June 14. Courses may, in some cases, be changed on July 5 but such changes must be reported by July 6 and students *must* be in attendance on July 6 in classes for which they are registered. Each subject or course change will, if permitted, be subject to an assessment of $5.00. A late registration fee of $20.00 will be assessed all students registering after May 25.

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

The University will be closed all day each Saturday.

TIME TABLE OF LECTURES, CREDIT COURSES

Monday to Friday Inclusive

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

Course

Asian Studies 320
Biology 105, Lecture
Chemistry 101, Lecture
Chemistry 430, Lecture
Commerce 101
Commerce 151, Lecture
Commerce 371
Economics 200
Economics 300
Education 200
Education 307
Education 309, Section A
Education 331, Section A
Education 332, Section A
Education 333, July 28-August 18
Education 336, July 5-27
Education 400
Education 404—English
Education 404—French, 8:15-9:10
Education 404—Home Ec., Section 1, Laboratory
Education 405, Section A
Education 407, Section A
Education 409
Education 435 (Ind. Ed.), July 5-27
Education 410 (H. Ec.), July 5-27
Education 410 (Ind. Ed.), July 28-Aug. 18
Education 420
Education 461, Section A
Education 462, Lecture
Education 491
Education 519
Education 523
Education 533
Education 562
Education 563
Education 565—English
Education 578—
English 100, Section A
English 200, Section A
English 303, Section A
English 304, Section A
English 309
English 311, Section A
English 366
English 391
English 392
English 429
English 451
Fine Arts 101
Fine Arts 300, Lecture
Fine Arts 301, Lecture
Fine Arts 303, Lecture
Fine Arts 305, Lecture
Fine Arts 307, Lecture
Fine Arts 402, Lecture

Course

Fine Arts 403, Lecture
Fine Arts 405, Lecture
Fine Arts 407, Lecture
Fine Arts 413, Lecture
Fine Arts 415, Lecture
Fine Arts 417, Lecture
French 110, Section 1
French 210, Section 1
French 220
French 302, Section 1
Geography 101
Geography 307
Geography 405
Geology 105, Lecture
Geology 210, Lecture
German 223
German 404
History 202
History 407
History 428
Home Economics 105, Lecture
Italian 100
Italian 200
Latin 120/200/210/220/407/530
Mathematics 120
Mathematics 200
Mathematics 201
Mathematics 202
Mathematics 203
Mathematics 300
Mathematics 410
Mathematics 504
Music 201
Music 120
Philosophy 302
Physical Education 101, 9:15-10:10 July 5-August 18
Physical Education 210, 8:15-9:10 July 28-August 18
Physical Education 240, 8:15-9:10 July 28-August 18
Physical Education 242, 8:15-9:10 July 5-26
Physical Education 310, 8:15-9:10 July 5-26
Physical Education 350, 9:15-10:10 July 5-26
Physical Education 460, 9:15-10:10 July 5-August 18
Physical Education 580, 9:15-10:10 July 5-August 18
Physics 101, Lecture
Physics 200, Lecture
Physics 400
Political Science 308
Psychology 206, Section 1
Russian 200
Sociology 315

Course

Spanish 100, Section 1
Theatre 320
Zoology 105, Lecture

Course

Zoology 202, Lecture
Zoology 304, Lecture
Zoology 401, Lecture

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

Anthropology 430
Asian Studies 330
Biology 105, Laboratory
Biology 332
Chemistry 205, Lecture
Chemistry 230, Lecture
Chemistry 304, Lecture
Chemistry 430, Discussion
Classical Studies 331
Classical Studies 433
Commerce 90
Commerce 151, Laboratory
Commerce 201
Commerce 252
Commerce 376
Commerce 391
Creative Writing 201
Economics 320
Education 301
Education 308
Education 309, Section B
Education 331, Section B
Education 332, Section B
Education 404—Geography & Social Studies July 28-August 18
Education 404—History & Social Studies July 5-27
Education 404—Home Economics, Section 2, Laboratory
Education 404—Science
Education 405, Section B
Education 407, Section B
Education 411
Education 416
Education 419
Education 461, Section B
Education 462, Laboratory
Education 470, Section A
Education 490
Education 508—History: July 5-27
—Geography: July 28-August 20
Education 508—Home Economics
Education 508—Research in Reading
Education 508—Science
Education 530
Education 535
Education 536
Education 564
Education 565—Geography, Physics, Lecture
Education 570
Education 571
Education 578, Lecture
English 100, Section B
English 200, Section B
English 303, Section B
English 304, Section B
English 311, Section B
English 355
English 375
English 380
English 440
Fine Arts 125
Fine Arts 228, Laboratory
Fine Arts 300, Laboratory
Fine Arts 301, Laboratory
Fine Arts 303, Laboratory
Fine Arts 305, Laboratory
Fine Arts 307, Laboratory
Fine Arts 326
Fine Arts 402, Laboratory
Fine Arts 403, Laboratory
Fine Arts 405, Laboratory
Fine Arts 407, Laboratory
Fine Arts 413, Laboratory
Fine Arts 415, Laboratory
Fine Arts 417, Laboratory
French 110, Section 2
French 120
French 210, Section 2
French 223
French 302, Section 2
French 304
French 410
French 504
Geography 100
Geography 201
Geography 302
Geography 409
Geology 105, Laboratory
Geology 210, Laboratory
German 200
German 300
History 212
History 310
History 419
Home Economics 101/403, Lecture
Home Economics 300, Lecture
Italian 310
Mathematics 205
Mathematics 303
Mathematics 308
Mathematics 322
Mathematics 511
Mathematics 530
Music 101
Music 302
Music 303
Physical Education 213, 10:25-11:20 July 5-26
Physical Education 216, 10:25-11:20, July 5-26

Course

Physical Education 218, 10:25-11:20 July 28-August 18
Physical Education 230, 12:30-1:25 July 28-August 18
Physical Education 250, 11:25-12:20 July 5-26
Physical Education 251, 11:25-12:20 July 28-August 18
Physical Education 260, 11:25-12:20 July 5-August 18
Physical Education 330, 12:30-1:25 July 5-26
Physical Education 360, 10:25-11:20 July 5-August 18

Course

Physics 308, Lecture
Political Science 201
Psychology 301
Psychology 307
Psychology 405
Psychology 409
Russian 100
Russian 401
Spanish 100, Section 2
Spanish 200
Theatre 300
Zoology 401, Laboratory

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

Anthropology 300
Bacteriology 200, Lecture
Biology 333
Botany 105, Lecture
Chemistry 101, Laboratory, 1:30-4:30
Chemistry 205, Laboratory, 1:30-4:30
Chemistry 230, Laboratory, 1:30-4:30
Chemistry 304, Laboratory, 1:30-4:30
Chemistry 430, Laboratory, 1:30-4:30
Education 305
Education 331, Section C
Education 390
Education 404—Guidance, Section 1, 1:30-2:30
Education 404—Guidance, Section 2, 2:30-3:30
Education 404—Home Economics, Section 1, M.W.F., Lecture
Education 404—Home Economics, Section 2, M.T.Th., Lecture
Education 404—Physical Education, 1:30-2:25 July 5-August 18
Education 407, Section B
Education 408
Education 412
Education 414
Education 415
Education 417
Education 428
Education 430
Education 460
Education 470, Section B
Education 556
Education 557
Education 558
Education 560, Section 2
Education 565—Geography
Education 565—Physics Laboratory
Education 567
Education 576
Education 577
Education 581
Education 582
English 100, Section C
English 200, Section C
English 303, Section C
English 304, Section C
English 310
English 311, Section C
English 420
English 454
English 515
Fine Arts 302, Lecture
Fine Arts 330
Fine Arts 401, Lecture
Geography 407
German 100
German 413
History 201
History 313
Home Economics 105, Laboratory, Section 1, M.W., 1:30-4:30
Home Economics 105, Laboratory, Section 2, T.Th., 1:30-4:30
Home Economics 101/403, Laboratory, Section 1, T.Th., 1:30-4:30
Home Economics 101/403, Laboratory, Section 2, M.W., 1:30-4:30
Home Economics 300, Laboratory, Section 1, T.Th.
Home Economics 300, Laboratory, Section 2, M.W.
Mathematics 306
Music 320
Music 326
Music 401
Philosophy 100
Philosophy 212
Physical Education 201, 2:35-3:30, July 5-26
Physical Education 219, 2:35-3:30, July 28-August 18
Physical Education 241, 1:30-2:25, July 5-August 18
Physical Education 262, 1:30-2:25, July 5-August 18
Physical Education 314, 2:35-3:30, July 28-August 18
Physical Education 361, 2:35-3:30, July 5-August 18

Course	*Course*
Physics 101, Laboratory	Psychology 542
Physics 200, Laboratory	Sociology 200
Physics 308, Laboratory	Theatre 301
Political Science 301	Zoology 105, Laboratory, 1:30-4:30
Psychology 100	Zoology 202, Laboratory, 1:30-4:30
Psychology 206, Section 2	Zoology 304, Laboratory, 1:30-4:30
Psychology 400	

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

Bacteriology 200, Laboratory	Physical Education 209, 3:45-4:40 July 28-August 18
Botany 105, Laboratory	Physical Education 244, 3:45-4:40 July 28-August 18
Education 578, Laboratory	Physical Education 312, 3:45-4:40 July 5-26
Fine Arts 302, Laboratory	
Fine Arts 401, Laboratory	
Physical Education 201, 3:45-4:40 July 5-26	

NOTES:

Examination Schedule

8:30 a.m., Thursday, August 19—courses in which lectures scheduled during session in period 8:15-10:10 a.m., except sectioned classes.

12:00 noon, Thursday, August 19—English 100, English 200, English 303, English 304.

3:30 p.m., Thursday, August 19—courses scheduled in lecture period 1:30-3:30 p.m., except sectioned classes.

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

12:00 noon and 3:00 p.m., Friday, August 20—reserved for examinations as needed to meet special requirements, including courses in which classes are sectioned.

Physical Education Activity Courses

The examinations for courses scheduled from July 5 to July 26 inclusive will be held on July 27.

The examinations for courses scheduled from July 28 to August 19 inclusive will be held on August 19 or 20.

All classes meet initially in the War Memorial Gymnasium.

REGULATIONS AFFECTING COURSE CHANGES

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

Preliminary study is essential for each Summer Session course if the normal course content is to be covered in the time available during the summer. Prospective Summer Session students must, therefore, commit themselves to their programmes of study by the last day for registration, May 25 (June 14 for students who have paid the late registration fee).

Changes in registration, where permitted, must be made on the first day of lectures, July 5, and reported to the Registrar's Office not later than July 6. Each such change will be assessed a fee of $5.00 that must be paid before a *class card* will be issued for the course to be taken. Course changes necessitated by over-subscription in enrolment or the dropping of courses by the University will not incur additional fee assessments.

REGULATIONS AFFECTING SUPPLEMENTAL EXAMINATIONS

It is anticipated that supplemental examinations will be held on the afternoon of Friday, December 10, 1965, at 3:30 p.m. Students who cannot write the examination at the University will have the opportunity of writing at one of various centres throughout the Province. In exceptional circumstances special centres will be established.

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PAUL BALOGH, Budapest, Hungary.
SAM BLACK, D.A., A.T.D., R.S.W., Professor.
I. J. W. BAXTER, B.Sc., M.Ed., M.F.A., Assistant Professor.
BRUCE BOYD, Instructor, Vancouver School of Art.
MICHAEL I. FOSTER, B.Ed., Assistant Professor.
WM. S. HART, M.A., Assistant Professor.
G. L. LEWIS, V.S.A., Instructor.
MISS MARY MOREHART, M.A., Ph.D., Assistant Professor.
ROBERT C. STEELE, B.A., B.Ed., Assistant Professor.
LIONEL A. J. THOMAS, A.R.C.A., Associate Professor.
DONALD P. TOMPKINS, B.A., M.F.A., Assistant Professor, University of Syracuse.
NORMAN E. YATES, A.D.C.A., Associate Professor, University of Alberta.

FRENCH

IVOR A. ARNOLD, M.A., Lecturer, University of Toronto.
JEAN-PAUL BARIL, B.A., B.Ed., Lecturer, Carleton University.
LAURENCE L. BONGIE, B.A., Docteur de l'Université de Paris, Associate Professor.
MISS KATHERINE BREARLEY, M.A., Docteur de l'Université de Paris, Assistant Professor.
MISS DOROTHY F. DALLAS, M.A., Docteur de l'Université de Paris, Professor.
MISS HEATHER FRANKLYN, B.A., Ph.D., Instructor.
FRANK HAMLIN, B.A., Ph.D., Assistant Professor.
RICHARD HOLDAWAY, B.A., Ph.D., Instructor.
MISS MARY KUSHNIR, M.A., Doctorat de l'Université de Bordeaux, Instructor, University of Victoria.
DAVID J. NIEDERAUER, A.B., M.A., Ph.D., Assistant Professor.
MISS MARGUERITE PRIMEAU, M.A., Assistant Professor.
JEAN-NOEL TREMBLAY, B.A., B.Th., Laval University.

GEOGRAPHY

WALTER G. HARDWICK, M.A., Ph.D., Assistant Professor.
MISS P. HOBSON, Ph.D., Lecturer, Goldsmith's College, University of London.
JULIAN MINGHI, B.A., Ph.D., Assistant Professor.
A. AUSTIN MILLER, Ph.D., Head, Geography Department, University of Reading, England.
NORMAN L. NICHOLSON, Ph.D., Professor, University of Western Ontario.
LELAND R. PEDERSON, M.A., Assistant Professor, Northwestern University.
JOHN K. STAGER, B.A., Ph.D., Assistant Professor.
DAVID WARD, M.A., Ph.D., Assistant Professor.

GEOLOGY

ROBERT M. THOMPSON, M.A.Sc., Ph.D., Professor.
FINLEY A. CAMPBELL, B.S., M.A., Ph.D., Associate Professor, University of Alberta, Edmonton.

GERMAN

RONALD C. BEAUMONT, M.A., Assistant Professor.
JOHN K. HODSON, M.A., Lecturer.

FRED A. KRUGEL, M.A., Ph.D., Assistant Professor.
LOUIS T. MEDVECZKY, B.A., Lecturer.
LESLIE L. MILLER, M.A., Ph.D., Assistant Professor.
JAMES A. McNEELY, M.A., Ph.D., Associate Professor.

HISTORY

GEORGE O. KENT, M.A., Ph.D., Professor, George Washington University.
ROBERT V. KUBICEK, M.A., Ph.D., Instructor.
HUGH MACKINNON, B.A., Ph.L., M.A., S.T.L., D.Phil., Associate Professor, University of Waterloo.
H. WAYNE MORGAN, M.A., Ph.D., Associate Professor, University of Texas.
LESLIE F. S. UPTON, B.A., Ph.D., Assistant Professor.
HARVEY WISH, B.S., M.A., Ph.D., Elbert J. Bent Distinguished Professor of History, Western Reserve University.

HOME ECONOMICS

ALFRED J. BANNER, B.A., Master of Decorative Arts, Assistant Professor, Department of Home Economics, University of Illinois.
MISS ALICE M. BRIANT, Ph.D., Professor, School of Home Economics, Cornell University.
MISS LAVINIA HARPER, B.S., M.S., Assistant Professor, Utah State University.
MISS EDITH NYMAN, B.S., M.S., Associate Professor, Utah State University.

ITALIAN

MRS. STEFANIA CICCONE, Dottore de l'Università di Firenze, M.Sc., M.A., Instructor.
MISS RACHEL GIESE, M.A., Ph.D., Associate Professor.
MISS MARIA TOMSICH, M.A., Lecturer.

LATIN

PATRICK GUTHRIE, C.D., B.A., M.A., Ph.D., Associate Professor.

MATHEMATICS

C. T. ANDERSON, B.Sc., Assistant Professor.
WILLIAM E. BONNICE, Ph.D., Assistant Professor, University of New Hampshire.
RICHARD H. CROWELL, Ph.D., Associate Professor, Dartmouth College, New Hampshire.
MARTIN J. DREYFUSS, B.S.S., M.P.A., M.A., Chairman, Department of Mathematics, San Jose City College.
ROLAND GRAY, Assistant Professor.
PETER HILTON, Ph.D., Professor, Cornell University, Ithaca.
THOMAS A. HOWITZ, M.S., Ph.D., Assistant Professor.
HUAN P. KUANG, B.S., M.A., Ph.D., Professor, North Dakota State University.
ELOD MACSKASY, Cand. Sc., Assistant Professor.
E. MacPHERSON, M.A., Assistant Professor.
BENJAMIN MOYLS, M.A., Ph.D., Professor.
REUBEN ROSENBERG, M.A., Ph.D., D.I.C., Professor and Head of the Department of Mathematics, University of New Brunswick.
LEON A. ROUSSEAU, Assistant Professor.
PETER SCHERK, Ph.D., Professor, University of Toronto.
J. E. SMITH, B.A., B.Ed., Assistant Professor.

MUSIC

D. EVAN DAVIS, B.A., M.Mus., D.Ed., Associate Professor.
PAUL DOUGLAS, M.Mus., Instructor.
DONALD C. GIBBARD, M.A., Associate Professor.
RANDOLPH HOKANSON, School of Music, University of Washington.
CORTLAND HULTBERG, B.Sc., M.Ed., M.Mus., Assistant Professor.
MARK W. ROSE, B.Sc.A., M.Ed., Assistant Professor.
FRENCH TICKNER, B.Mus., Assistant Professor.
G. CAMPBELL TROWSDALE, B.Mus., M.Ed., Ed.D., A.R.C.T., Assistant Professor.
EUGENE WILSON, B.Mus., M.A., Instructor.

PHILOSOPHY

IAN HACKING, B.A., Ph.D., Assistant Professor.
HOWARD O. JACKSON, B.S., Ph.D., Visiting Assistant Professor.
PATRICK MacKENZIE, M.Litt., Assistant Professor, University of Saskatchewan.

PHYSICAL EDUCATION

MRS. HELEN GOODWIN, Dip. Laban Art of Movement Studio, London, England, Instructor.
FRANK T. GNUP, B.Sc., Instructor.
ROBERT G. HINDMARCH, B.P.E., M.S., Ed.D., Assistant Professor.
JOSEPH ROBERT JOHNSON, M.P.E., Instructor.
ALBERT B. LAITHWAITE, Dip. Phys.Ed., M.S., Assistant Professor.
WILLIAM A. R. ORBAN, B.Sc., M.S., Ph.D., Professor, University of Saskatchewan.
ROBERT F. OSBORNE, B.A., B.Ed., Professor and Director of the School of Physical Education and Recreation.
JACK B. POMFRET, B.A., M.S., Assistant Professor.
LIONEL PUGH, B.A., D.P.E., Dip.E., M.R.I.P.H.H., Assistant Professor.
FLORENCE STRACHAN, Burnaby North Secondary School.
GRANT VINCENT, Lecturer.
H. DOUGLAS WHITTLE, B.P.H.E., M.S., Ph.D., Professor.

PHYSICS

KARL L. ERDMAN, B.Sc., M.Sc., Ph.D., Associate Professor.
FRANK L. CURZON, B.Sc., A.R.C.S., Ph.D., D.I.C., Associate Professor.
PAUL LORRAIN, B.A., M.Sc., Ph.D., Professor and Head, Department of Physics, University of Montreal.
LUIS GONZAGA de SOBRINO, Dipl. Estudios Superiores, M.Sc., Sc.D., Associate Professor.
ROY NODWELL, B.E., M.A.Sc., Ph.D., Associate Professor.

POLITICAL SCIENCE

IVAN AVAKUMOVIC, M.A., Ph.D., Associate Professor.
JOHN S. CONWAY, M.A., Ph.D., Associate Professor.
JEAN A. LAPONCE, Dipl. I.E.P., Ph.D., Associate Professor.

PSYCHOLOGY

MISS MAGDA B. ARNOLD, M.A., Ph.D., Professor, Loyola University, Chicago.
W. K. CAIRD, M.A., Ph.D., Assistant Professor.
K. CRAIG, M.A., Ph.D., Assistant Professor.

A. G. DeVRIES, M.A., Ph.D., Assistant Professor.
DOUGLAS T. KENNY, M.A., Ph.D., Professor.
ROBERT E. KNOX, M.A., Ph.D., Assistant Professor.
DONALD C. G. MacKAY, M.A., Ph.D., Associate Professor.
JOHN C. NUTTALL, B.A., B.Ed., Lecturer.
MISS REVA POTASHIN, M.A., Ph.D., Assistant Professor.
DONALD G. SAMPSON, M.A., Ph.D., Assistant Professor.

RUSSIAN

A. H. OHANJANIAN, B.A., Lecturer.
COR GERARDUS SCHWENCKE, M.A., Instructor.
GARETH WILLIAMS, M.A., Instructor.

SOCIOLOGY

RAINER C. BAUM, M.A., Instructor, Cambridge, Mass.
CURT TAUSKY, Ph.D., Assistant Professor, University of Nebraska, Lincoln.

SPANISH

KARL I. KOBBERVIG, B.A., Ph.D., Assistant Professor.
JOSE M. LOPEZ-SAIZ, B.A., Lecturer.
J. A. McDONALD, M.A., Associate Professor.

THEATRE

JOHN BROCKINGTON, B.A., D.F.A., Associate Professor.
MISS JANIE STEVENSON, L.R.A.M., L.G.S.M., A.L.A.M., Assistant Professor.
KLAUSS STRASSMANN, Lecturer.

ZOOLOGY

JOHN C. CONROY, M.Sc., United College, Winnipeg.
A. F. G. DIXON, D.Phil., Lecturer, Glasgow University, Scotland.
HAROLD D. FISHER, M.A., Ph.D., Associate Professor.
DAVID J. RANDALL, B.Sc., Ph.D., Assistant Professor.

Admission, Registration and Attendance

CREDIT COURSES

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

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

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

1. Application:

(a) Students registering in the University for the first time:
Obtain from the Registrar's Office an *Application for Admission* form. Return this, duly completed, together with certified copies of ALL University Entrance Certificates and any higher certificates possessed not later than May 10. 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 10.

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

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

2. Registration:

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

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

(c) **All registrants who have not completed registration by May 25 will be assessed the late registration fee of $20.00; no registration will be accepted after June 14.**

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

(e) Applicants who submit a registration booklet by May 25 but who have not also submitted the necessary fees will be assessed the late fee and issued the "Library and Identification" card on payment of fees in full including the late fee of $20.00.

3. Restriction on registration in the Summer Session:

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

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

(c) Any student who applies for admission to the Summer Session *after June 14 will not be admitted* unless the student had been in attendance during the immediately preceding Winter Session. *The late registration fee of $20.00 will not be waived for such a student.*

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

Regulations Governing Credit Courses:

1. **The maximum credit for Summer Session work in any one calendar year is 6 units.**
2. **Credit will not be given toward the B.A. or B.Sc. degrees for courses in Commerce (except 151 and 371), Education, Home Economics, or Physical Education. In the departments of English, Fine Arts, Music, and Theatre some courses are useful for credit only toward the B.Ed. degree.**
3. **Students must attend regularly the classes in a course for which they** register. Those whose absences from a course are considered excessive by the Instructor will not be credited with attendance in that course.
4. **A student will be granted a supplemental examination in a subject which he has taken during the Summer Session provided (i) he has written the final examination and has obtained a mark of not less than 40%, and (ii) he has obtained 3 units of credit in the session.** Supplemental examinations for summer session students will be held in December 1965. Supplemental privileges will not be granted students who fail the laboratory work of science or industrial arts courses.
5. **Except for English 100 and English 200 no course may be repeated more than once.**

GRADUATION

Summer Session students expecting to complete degree requirements must make formal application for graduation on the blue card provided with other registration material.

Students who complete degree requirements will be given a statement indicating their status. The Congregation ceremony will be held in early June, 1966.

SUMMER SESSION

Revised Scale of Fees effective April 1965

Tuition fees:

3-unit course	$100.00
2-unit course	68.00
1½-unit course	50.00
1-unit course	34.00
½-unit course	17.00

Auditor only — one-half regular tuition fee.

Other fees: no change; see Page 19 for details.

THE UNIVERSITY OF BRITISH COLUMBIA

Office of the Registrar April 1965

Announcement of the Summer Session

CHANGES, ADDITIONS, DELETIONS

Timetable —

Commerce 201 is scheduled for 1:30 p.m. instead of 10:25 a.m. as indicated.

Education 400, Section A, is scheduled for 8:15 - 10:10; Section B is scheduled for 10:25 - 12:20.

Education 430, Section 1, Scheduled for 8:15 - 10:10; Section 2, scheduled for 10:25 - 12:20.

Education 435, (Home Ec.), July 28 - August 18, scheduled for 8:15 - 10:10.

Education 562 has been cancelled.
Education 563 has been cancelled.
Education 577 is scheduled for 10:25 a.m. instead of 1:30 as indicated.
Education 578, scheduled for 8:15, is an optional laboratory.
Education 581 has been cancelled.
Education 582 has been cancelled.
French 415 is scheduled for 8:15 - 10:10.

Note: Fine Arts 228. Lecture periods to be included in time assigned for laboratories (10:25 - 12:20).

Additional French course to be given:

415. The Contemporary Novel from 1918.

A study of writings representative of the novel and the essay from Gide to Camus.

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

Page 13 — under French.

LOUIS BARJON, S.J., L. ès L., Agrégé des Lettres, Professeur à l'Institut Catholique, Paris.

Page 14 — under History.

KENNETH A. MacKIRDY, B.A., M.A., Ph.D., Professor, University of Waterloo.

Page 36 — Education 404, English. Dates should read **July 5 - 27** inclusive.

Page 60 — History 202. History 100 is the required prerequisite for all students intending to major in History.

Page 59 — Geology 105 — Delete textbooks shown and replace with: Leet and Judson, **Physical Geology**, 3rd ed., Prentice-Hall; Dunbar, **Historical Geology**, Wiley.

Timetable —

Education 460, Section A, is scheduled for 8:15 instead of 1:30 p.m.
Education 556 is scheduled for 8:15 instead of 1:30 p.m.
Education 557 is scheduled for 10:25 instead of 1:30 p.m.
Education 558 is scheduled for 10:25 instead of 1:30 p.m.
Education 560 is scheduled for 8:15 instead of 1:30 p.m.

FEES*

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

All fees are due and payable at time of registration.

A fee of $20.00 for "Late Registration" will be charged all students registering for credit courses after May 25.

Registration will not be considered complete until fees are paid.

Scale of Fees

Course fees: per unit	$25.00
per half unit	12.50
Summer Session Association fee	**2.00**
Late registration fee	20.00
Each course change	5.00

For example:

(i)	3 units: tuition $75; S.S.A. $2	Total $77.00
(ii)	4½ units: tuition $112.50; S.S.A. $2	Total $114.50
(iii)	6 units: tuition $150; S.S.A. $2	Total $152.00

NOTE—A student who withdraws must submit a statement *in writing*, either by letter or by a form that is available at the Registrar's Office. Refunds will *not* be authorized for students who notify the Registrar's Office by telephone that they are withdrawing from classes. No refund will be made for fees after July 23. In the computation of refunds prior to this date an amount equal to one-fifth of the course fees will be charged for each week or part of a week prior to the date on which the student notifies the Registrar officially of his cancellation of registration or his withdrawal from the University. A student who cancels registration before classes begin will be refunded all but $10.00 of fees paid.

Special Fees

For Auditors, per unit $12.50

NOTES—

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

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

Supplemental Examination, per paper

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

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

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

NON-CREDIT COURSES

Registration Procedure.

Write to the Extension Department stating the course or courses desired.

*Subject to change without notice.

Prospective students will then be mailed application forms which should be returned as soon as possible as the size of classes is limited.

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

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

Students seeking credit for Extension courses where applicable must register through the Registrar's Office before May 25.

Scholarships, Bursaries, Loan Funds

(Open only to students taking regular academic courses)

University Summer Session Bursaries

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

The Summer Session Association Loan Fund

This fund, established in 1947, provides loans for students proceeding to a degree by summer session. A limited number of loans, to a maximum of $100 each, are available to (a) teachers (as defined by the Public Schools Act of British Columbia) and to (b) other non-winter session students who have previously completed at least six units by summer session at this University. Loans are to be available to teachers and non-teachers respectively in the same proportion as their numbers in attendance in the previous summer session. Loans are repayable in full by March 1st next, until which time no interest is charged. Application must be made to the Dean of Inter-Faculty and Student Affairs. Loans cannot be made until after the beginning of summer session, but those who will require loans may write in advance to determine whether they are eligible.

The Dr. H. T. J. Coleman Scholarship

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

Gilbert Tucker Memorial Summer Session Prize

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

The Summer Session Association Prizes

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

Summer Session Association Prize for Graduate Students

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

Scholarships for Summer School of the Arts

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

SUMMER SESSION ASSOCIATION

1965 Executive Committee

President - - - - - Don A. Ross
Past President - - - - Bill Lucey
1st Vice-Pres. - - - - Colin Walters
Secretary - - A. A. (Bob) Ferguson
Treasurer - - - - - Howard Cross
Exec. Secretary - - - Lynn Baldwin
Athletics - - - - Peter Bulatovich
Concert - - - - - - Doris Standly
Dance - - - - Sheila Bowyer-Smyth
Resolutions - - - Frank McPhalen
Bulletin - - - - - - Colin Walters
Advertising - - - - Bob Ferguson
Members at Large - - Hugh Brown, Judy Jackson, Bob G. Blount, Peter Barrett, Trevor Jenkins

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

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

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

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

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

Schedule of Activities

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

Activities will commence the first week of Summer Session.

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

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

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

Summer Chorus

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

This activity is sponsored by the Faculty of Education. To confirm, contact Professor D. Gibbard.

TRAFFIC AND PARKING REGULATIONS

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

Registration: Faculty, staff and students who have not already registered their automobiles, motorcycles and scooters for 1964-65 are required to register them for the Summer Session and to obtain appropriate permits.

Faculty, staff and students must register their automobiles, motorcycles immediately upon arrival on campus. They will register at the Traffic Office, situated at 1801 Wesbrook Crescent, and such registration must be completed by July 9, 1965.

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

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

Fees: Faculty and staff automobiles	$5.00
Faculty and staff motorcycles or scooters	1.25
Student automobiles	2.50
Student motorcycles or scooters	1.25
Visitors' Pay Lots:	
First hour	10c
Second hour	15c
Each additional hour	25c
up to a maximum of	75c per day
Meters ½ hr. to 2 hrs.	USE NICKELS ONLY

Night Parking: Regulations come into force at 5 p.m. Certain designated parking areas will be available at a charge of 25c for the evening.

A limited number of parking spaces will be marked FACULTY AND STAFF ONLY DAY AND NIGHT. This restriction is in effect 24 hours a day.

Commercial vehicle loading zones are signed NO PARKING COMMERCIAL VEHICLE LOADING ZONE. This restriction is also in effect 24 hours a day.

All other designated parking areas will be available for use by the public free of charge.

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

THE UNIVERSITY BOOK STORE

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

During the summer session the book store is open Monday to Friday, from 8:45 to 5 o'clock.

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

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

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

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

LIBRARY INSTRUCTION

It is recommended that all students new to this campus attend one series of three orientation lectures to be given by the staff of the Library in Buchanan 106. Lecture 1 will be given at 8:15 a.m., 10:25 a.m. or 1:30 p.m. on Monday, July 12, Lecture 2, at the same hours on Tuesday, July 13, and Lecture 3 on Wednesday, July 14.

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

Lecture 2: Use of periodical indexes.

Lecture 3: Types of reference books.

UNIVERSITY HEALTH SERVICE

Wesbrook Building

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

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

Students from other Canadian provinces will be covered in B.C. for the duration of the Summer Session by their own provincial hospitalization plans if they are not away from their home provinces more than three months, provided their hospital insurance premiums (where applicable) have been paid.

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

HOUSING ACCOMMODATION

Housing accommodation will be available for summer session students who wish Board and Lodging in Permanent Men's and Women's Residences in the Lower Mall and Totem Park areas.

SUMMER SESSION RATES

(a) *Regular Summer Session Courses* (July 5 to August 20 inclusive)

(i) Men's Accommodation (per Session)

Lower Mall and Totem Park Residences

Single Room	$150.00
Double Room	143.00

(ii) Women's Accommodation (per Session)
Lower Mall and Totem Park Residences
Single Room $150.00
Double Room 143.00

These rates cover room from Sunday night, July 4 to August 20, inclusive; and meals from breakfast, Monday, July 5 to dinner, August 20 inclusive.

(b) *Non-Academic Courses & Workshops*

Short-Course students are offered accommodation as follows:

Men's Accommodation (per month)
Fort Camp Residences
(Mary Bollert — 1st Floor)
Single Room $90.00
Double Room 85.00

Women's Accommodation (per month)
Fort Camp Residences
(Mary Bollert — 2nd Floor)
Single Room $90.00
Double Room 85.00

(c) *Married Accommodation*

Special arrangements will be made for married couples with children at Acadia or without children at Fort Camp.

(d) NOTE: The assignment is effective only if full Board and Residence payment reaches Accounting Department *by June 18th, 1965*. Students who fail to take up accommodation reserved for them will have $15.00 confiscated from their Board and Residence payment. Meal passes will be available at the Residence Clerk's Office if the above has been observed.

INQUIRIES AND APPLICATION

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

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

TEACHER CERTIFICATION

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

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

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

In general to fulfil course requirements for the Permanent E.B certificate teachers whose training was taken in a B.C. Normal School, 1955-56, or who completed or commenced professional training in the Faculty of Education

prior to July 1962, must complete six units of credit in the Third Year in an Education programme (either Elementary or Secondary) or Second Year in a programme leading to some other degree. Teachers who completed B.C. Normal School training prior to July 1955 may continue to qualify for the permanent Elementary Basic certificate under the regulations applicable to them. If in doubt, consult the Registrar, Department of Education, Victoria. Students who entered the Faculty of Education after July 1962 for basic teacher training are required to complete Elementary A requirements for permanent certification. Questions concerning the number of courses required by teachers who do not clearly fit the Department's certification regulations must be answered by the Registrar, Department of Education, Victoria.

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

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

***Full* Second Year**	—	Elementary B
***Full* Third Year**	—	Elementary A
***Full* Fourth Year**	—	Professional C
***Full* Fifth Year**	—	Professional 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 B
***Full* Second Year**	—	Elementary A
***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 Records Office, Faculty of Education, The University of British Columbia, Vancouver 8, B.C.

APPLICATION FOR TEACHER CERTIFICATION

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

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

Full details will be found in the form enclosed with the registration material.

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 1965 are expected to complete the second and third summers in 1966 and 1967.

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

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

2. Home Economics graduates who have completed one summer session of the required courses should enrol for their second session in the following courses:

(1) Education 400—Survey of Educational Thought ..... 3 units
(if not completed previously) and
(2) One of the following—
Education 332—Psychology of Adolescence ..... 3 units
Education 411—Guidance and Counselling Services ..... 3 units
Education 461—Diagnostic and Remedial Teaching ..... 3 units
Education 470—Educational Sociology ..... 3 units
Education 410—The Organization and Administration of B.C. Schools ..... 1½ units
Education 435—Introduction to Evaluation ..... 1½ units
(if not completed previously)

3. Home Economics graduates who have completed two summer sessions of the required courses should enrol for their third summer session in the following courses:

(1) Education 400—Survey of Educational Thought ..... 3 units
(if not completed previously) and
(2) One of the following—
Education 332, 411, 461, 470 ..... 3 units

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

TEACHERS WITH ELEMENTARY BASIC CERTIFICATES TRAINING TO TEACH HOME ECONOMICS

Summer session courses available in 1965 for prospective teachers in Home Economics holding Elementary Basic certificates are:

Home Economics 101-403 ..... 3 units
Home Economics 105 ..... 3 units
Home Economics 300 ..... 3 units
Education 404 (Home Economics) ..... 3 units

It is desirable that a number of courses in Home Economics be completed before undertaking Ed. 404. Only in especially considered cases may a teacher

enrol for Ed. 404 concurrently with 3 units of Home Economics in her first summer. Consult the Director of the School of Home Economics for such permission.

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

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

In order that E.B. teachers starting on a three-year summer session programme may plan their selection of courses, the probable offerings for 1966 are as follows:

H.E. 102-104-106, 201-310, 421
Ed. 404 (H.E.)

SPECIAL NOTE FOR PHYSICAL EDUCATION TEACHERS-IN-TRAINING

Training programmes offered for teachers of Physical Education:

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

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

Those commencing training for the Elementary B certificate who wish to qualify in Physical Education may complete ten of the fifteen 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 15 units needed for the Physical Education major with a further Summer Session. Persons already holding an Elementary C certificate may find it possible to include one or more 3-unit courses in Physical Education towards the Elementary B certificate and then continue with further training as outlined in paragraph two above.

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

Courses of Study

ANTHROPOLOGY

300. Social Organization.

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

Ten hours lectures a week—3 units.

Mr. Vallee.

430. Theory and Programmes of Social Change.

General theory of cultural evolution and social change. Changes among the tribal and folk peoples. Programmes of welfare and development.

Ten hours lectures a week—3 units.

Mr. Carstens.

ASIAN STUDIES

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

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

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

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

Ten hours lectures a week—3 units.

Mr. van der Sprenkel.

330. History of Japan (accepted for credit in History).

Japanese political, social and cultural history from the earliest times to the present day.

Pre-reading recommended: R. Storry, *A History of Modern Japan* (Penguin Books paperback); M. Kennedy, *A Short History of Japan* (Mentor Book paperback).

Textbooks: Sansom, *Japan, A Short Cultural History* (Cresset, London; Appleton, New York); De Bary et al., *Sources of Japanese Tradition* (Columbia University Press, New York. 2 vols. paperback).

Ten hours lectures a week—3 units.

Mr. Jones.

BACTERIOLOGY

200. Introductory Bacteriology.

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

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

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

Textbook: Stanier et al, *The Microbial World,* 2nd ed., Prentice-Hall.

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

Mr. Stock.

BIOLOGY

105. Principles of Biology.

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

Textbook: Weisz, *The Science of Biology*, McGraw-Hill, 2nd ed., 1963.

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

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

Mr. Hughes.

332. Principles of Genetics.

A course of lectures surveying the principles, methods, and application of genetics, including some consideration of heredity in man. Students whose background proves to be adequate may be excused from the tutorial session which is given in the first term.

Prerequisite: Botany 105 or Biology 105 or Zoology 105.

Ten hours lectures a week—2 units.

Mr. McGinnis.

333. Laboratory in Principles of Genetics.

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

Prerequisite: Botany 105 or Biology 105 or Zoology 105.

Eight laboratory hours a week—1 unit.

Mr. McGinnis.

BOTANY

105. Introduction to Botany.

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

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

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

Mr. Klett.

CHEMISTRY

101. General Chemistry.

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

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

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

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

Mr. Cullen, Mr. Dutton.

205. Physical-Inorganic and Analytical Chemistry.

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

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

Textbooks: Heslop and Robinson, *Inorganic Chemistry*. *Mimeographed Lab. Manual* (University Bookstore).

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

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

230. Organic Chemistry (previously 300).

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

Prerequisite: Chemistry 101 or 102.

Textbooks: To be announced.

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

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. References: Moore, Physical Chemistry Barrow, Physical Chemistry.

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

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

Note: Chemistry 310 will be offered in 1967.

430. Modern Concepts in Chemistry.

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

Limited enrolment.

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

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

Note: It is not planned to offer this course in 1966.

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

CLASSICAL STUDIES

331. Ancient History.

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

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

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

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

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

Mr. McGregor.

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.

Prerequisite: Classical Studies 331 or permission.

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

Ten hours lectures a week—3 units.

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.

Prerequisite: For credit only on B.Ed. (Sec.).

Limited to 30 students.

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

Miss Brown.

101. Shorthand Techniques, Practice and Methods.

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

Prerequisite: For credit only on B.Ed. (Sec.).

Pre-reading required: First twenty-five lessons of basic course.

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

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

Mr. Goldie.

151. Fundamentals of Accounting.

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

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

Prerequisite: at least Second Year standing.

Ten hours lectures a week—3 units.

201. Secretarial Practice.

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

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

Prerequisites: Commerce 90, Commerce 101.

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

Ten hours lectures and 5 hours laboratory a week—3 units.

Mrs. Cameron.

252. Management Accounting.

The basic concepts of management accounting and the use of accounting data in decision making and in the management of an enterprise. The bases of inter-

preting financial statements emphasizing the impact of accounting postulates on interpretation.

Limited to 50 students.

Prerequisite: Commerce 151.

371. Business Finance.

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

Prerequisites: Commerce 151, Economics 200.

Ten hours lectures a week—3 units.

Mr. Bray.

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).

Ten hours lectures a week—3 units.

391. Office Management.

Office Management, planning and production problems, lay-out, equipment, work analyses and simplification, office services. Personnel management. Design and control of office forms. Office manuals. Budgetary control. Problems and cases.

Textbook: Neuner, *Office Management*, 4th Ed., South-Western, W. J. Gage for Canada.

Ten hours lectures a week—3 units.

Mr. Weeks.

CREATIVE WRITING

201. Prose Techniques.

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

Prerequisite: Applicants must prove their ability to write correctly and with imagination by submitting, *before registration*, an original work that is judged acceptable by the Department. This work must be written in any genre listed above, and may be of any length and on any subject. Material should be sent to the Creative Writing Department, The University of British Columbia.

Ten hours lectures per week—3 units.

Mr. West.

ECONOMICS

200. Principles of Economics.

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

Prerequisite: First Year standing.

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

Ten hours lectures a week—3 units.

300. Intermediate Economic Analysis.

Theory of consumer demand; production theory; equilibrium of the firm; study of market structures; monopoly, monopolistic competition and oligo-

poly. The social accounts income and employment theory; economic fluctuations; economic growth.

Prerequisite: Economics 200

Ten hours lectures a week—3 units.

320. Economic Development in Modern Europe.

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

Ten hours lectures a week—3 units.

Mr. Potter.

EDUCATION

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

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

305. Art Education.

A study of the growth and development of art education; discussion and use of various art media; the function and purpose of art in school and society; practical studio activities; modern methods and curricula in art education, grades 1-12.

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

Prerequisite: Ed 205 or equivalent.

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

307. Music Education.

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

Prerequisite: Education 207 or Normal School Diploma.

Pre-reading recommended: Ellison, *Music with Children.*

Textbook: Nye & Nye, *Music in the Elementary School,* (Prentice-Hall), 2nd ed. 1964.

Ten hours lectures a week—3 units.

Mr. Gamble, Mr. Murray.

308. Physical Education.

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

Prerequisite: Education 209.

Ten hours lectures a week—3 units.

Mr. Watt.

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

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

Limited to 24 students in each of six sections.

Prerequisite: Education 201 or equivalent.

Textbooks: *B.C. Provincial Museum Handbooks on Mammals, Reptiles, and Amphibians of B.C.;* Taylor, *Garden Flowers;* Krauskopf and Beiser, *The Physical Universe 1960,* McGraw Hill.

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

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

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

Mr. Boughton, Mr. Jorgensen, Mr. Wade, Mr. Brough, Mrs. Forster, Mr. Krayenhoff, Mrs. Woodrow.

331. Psychology of Childhood.

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

Ten hours lectures a week—3 units.

Mr. Bain, Miss Baxter, Mrs. Bredin, Miss Harris, Mr. Kelsey.

332. Psychology of Adolescence.

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

Textbook: Cole & Hall, *Psychology of Adolescence,* Holt, Rinehart, Winston.

Ten hours lectures a week—3 units.

Mr. Lang, Mr. Walters.

333. Special Problems in Pre-School Education.

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

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

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

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

Ten hours lectures a week—3 units.

Miss Gardner.

Note: The combined programme (Ed. 333 and 336) offers 6 units of credit to students who include the afternoon session (1:30-2:30).

336. Modern Theories of Pre-School Education.

A theory course intended for teachers and administrators interested in pre-school and primary education. Observation of pre-school procedures in the Child Study Centre. Students may not enroll in a second course at the 8:15-12:20 lecture period.

Ten hours lectures a week—3 units.

Miss Hooper.

390. Librarianship: Sources of Information.

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

Gates, *Guide to the Use of Books and Libraries,* McGraw Hill, 1962.

Ten hours lectures a week—3 units.

Miss Smith.

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.

Pre-reading recommended: Phenix (ed.), *Philosophies of Education,* Wiley (Paperback, 1961); Dewey, *Experience and Education,* Macmillan, 1938; Locke, *On Politics and Education,* D. Van Nostrand, 1947; Plato, *The Republic,* (Cornford ed.), Oxford University Press, 1945; Rousseau, *Emile,* E. P. Dutton Everyman's ed., 1911. Available in inexpensive editions.

Textbooks: Ulich, *3000 Years of Educational Wisdom,* Harvard Univ.; Curtis, *A Short History of Educational Ideas,* Univ. Tutorial Press, 2nd ed., 1956; O'Connor, *An Introduction to the Philosophy of Education,* Routledge and Kegan Paul.

Ten hours lectures a week—3 units.

Mr. Daniels, Mr. Garfinkle, Mr. Nash.

404. Curriculum and Instruction in Specific Secondary School Subjects

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

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

English.

Prerequisite: Three senior courses in English.

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

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

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

French

Limited to students who have completed with satisfactory standing a reasonable proportion of the senior courses for a French major. Some auditors will be admitted.

Textbooks: *Secondary School Languages 1964,* Division of Curriculum, B.C. Department of Education; *Le Francais Vivant* with manuel, *Teaching Techniques and Resource Materials,* Stock, Stock and Jeanneret, Copp Clark; a reading list will be provided.

Five hours lectures a week—1½ units.

Miss Boyles.

Geography and Social Studies.

Prerequisite: Geography major or instructor's written consent.

Pre-reading required: *International Geogrophical Union Report,* 1956; *Sample Studies,* The Geographical Association.

Pre-reading recommended: *New Viewpoints in Geography* (National Council for the Social Studies), James, P. ed.

Textbook: Hardwick et al, *Teaching History and Geography*, W. J. Gage, 1964.

Ten hours lectures and seminars a week, July 28-August 20—1½ units.

Mr. Welsh.

Guidance.

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

Pre-reading recommended: Stein and Auld, *The Guidance Worker; Basis for a Profession.*

Textbook: Bennett, *Guidance and Counselling in Groups*, McGraw-Hill, 1963.

Five hours lectures a week—1½ units.

Mrs. Thompson.

History and Social Studies.

Prerequisite: History major or instructor's written consent.

Pre-reading recommended: Meyerhoff, *The Philosophy of History in Our Time*, Doubleday Anchor.

Pre-reading required: Sutherland, *The Document in the Teaching of History;* Carr, *What is History?* (Knopf) or in paperback edition.

Textbooks: Burston, W. H. and Green, C. W., *Handbook for History Teachers*, (Methuen and Co. Ltd., 1962) ; *Hardwick, Teaching History and Geography*, W. J. Gage, 1964.

Ten hours lectures and seminars a week, July 5-27 inclusive—1½ units.

Mr. Hardwick.

Home Economics.

Curriculum and Instruction.

Limited to 30 students.

Section 1—Registration in the Bachelor of Education programme with a minimum of six units of Home Economics completed; teaching experience.

Section 2—Degree in Home Economics.

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

Music

To be arranged with Professor D. Gibbard.

Physical Education

Curriculum and instruction in Physical and Health Education.

Prerequisite: 4th year standing or permission of instructor.

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

Five hours lectures a week—1½ units.

Mr. Laithwaite.

Science

Textbooks: Morholt & Castka, *A Sourcebook for the Physical Sciences*, Harcourt Brace & World, 1961; Morholt, *A Sourcebook for the Biological Sciences.*

Ten hours lectures a week—3 units.

Mr. Young.

405. Curriculum and Instruction in 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 primary grades, with reference to readiness in the kindergarten.

Prerequisite: Education 203, 204 or Normal School.

Ten hours lectures a week—3 units.

Mrs. Birkett, Miss Birrell, Miss Brown, Mrs. Vey.

407. Introduction to the Study of Exceptional Children.

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

Textbooks: Dunn, *Exceptional Children in the Schools,* Holt, Rinehart Winston, 1963; Zeg and Ames, *Child Behaviour,* Dell, (Paperback).

Ten hours lectures a week—3 units.

Miss Gray, Mr. Kendall, Mr. McGann.

408. Teaching the Mentally Superior.

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

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

Ten hours lectures a week—3 units.

Mr. Steinson.

409. Science Education

Study of the research in elementary science teaching and comparative curricula. Emphasis will be placed on the learning process, together with methods of presentation and the materials of instruction. A teaching practicum in science is included.

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

Textbook: Henry, *Rethinking Education,* Univ. of Chicago Press, 1960.

Ten hours lectures and ten hours laboratory per week.

Mr. Boldt.

411. Guidance and Counselling Services in Schools.

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

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

Textbook: Stein and Auld, *The Guidance Worker; Basis for a Profession,* Gage, 1965.

Ten hours lectures a week—3 units.

Mr. Zingle, Miss Williamson.

412. Introduction to Adult Education.

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

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

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

Ten hours lectures a week—3 units.

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.

Limited to 60 students.

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

Ten hours lectures a week—3 units.

Mr. Whitinger, Mr. Cameron.

415. Developmental Reading.

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

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

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

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

Prerequisite to Education 462, *Remedial Reading.*

Ten hours lectures a week—3 units.

Mr. Buckley, Mr. Campbell, Miss Foster, Mr. Gengler, Miss Shubkagle.

416. Speech Education.

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

Textbook: Abernathy, *Fundamentals of Speech,* Wm. C. Brown Co., 1959.

Ten hours lectures a week—3 units.

Mrs. Campbell, Mrs. Paterson.

417. Educating the Slow Learner and the Emotionally Handicapped.

An examination of techniques for identifying and educating the emotionally handicapped child and the slow-learning child.

Prerequisite: Education 407.

Ten hours lectures a week—3 units.

Mr. Richardson.

419. Introduction to Speech Correction.

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

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

Ten hours lectures a week—3 units.

Miss Washington.

420. Educating the Mentally Retarded.

The identification, education, and training of children and youth with retarded mental development. Prerequisite: Ed. 407.

Textbook: Rothstein, *Mental Retardation,* Holt, Rinehart & Winston, N.Y., 1962.

10 hours lectures a week—3 units.

Mr. Buck.

428. Mental Health in the School.

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

Prerequisite: Education 102 or 301 or equivalent course.

Ten hours lectures a week—3 units.

Mr. Young.

430. History of Education.

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

Pre-reading recommended: Any one of: Curtis and Boultwood, *A Short History of Educational Ideas,* (University Tutorial Press, Second Edition); Good, *A History of Western Education,* (MacMillan, Second Edition); Rusk, *The*

Doctrines of the Great Educators, (MacMillan, Revised Edition); Ulich, *History of Educational Thought,* (American Book Co., 1945); Ulich, *The Education of Nations,* Harvard; Hans, *Comparative Education,* Routledge and Kegan Paul.

Ten hours lectures a week—3 units.

Mr. Mowat.

460. An Introduction to School Administration.

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

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

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

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

Ten hours lectures a week—3 units.

Mr. Smith, Mr. Blanke.

461. Educational Diagnosis and Remedial Instruction.

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.

Ten hours lectures a week—3 units.

Mr. Hammond, Mr. Hanson, Mr. Fromson.

462. Remedial Reading.

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

Limited to 20 students.

Prerequisites: Education 415 or equivalent, and teaching experience.

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

Textbook: Bond and Tinker, *Reading Difficulties—Their Diagnosis and Correction,* Appleton, Century, Crofts, 1957.

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

Mrs. Rizer.

470. Educational Sociology.

Factors related to the social structure of modern western civilization which have significant relevance to education and to the educability of children.

Pre-reading recommended: Bossard and Boll, *The Sociology of Child Development,* Harper, 1960.

Textbooks: Havighurst & Nengarten, *Society and Education,* Allyn & Bacon, 1962; Halsey, Floud, & Anderson, *Education, Economy and Society,* Free Press, Glencoe, Illinois, 1961.

Ten hours lectures a week—3 units.

Mr. Musgrove, Mr. Mann, Mr. Taylor.

490. The Library in The School.

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

Textbook: American Association of School Librarians, *Standards for School Library Programmes* (ALA. 1960).

Ten hours lectures a week—3 units.

Mr. Stubbs.

491. The Acquisition and Organization of Library Materials.

The principles and methods of selecting, classifying, cataloguing and organizing library materials.

Ten hours lectures a week—3 units.

Mr. Lanning, Mrs. d'Arcy.

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

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

Prerequisite: Education 204 or 404.

History and Geography.

Research in the teaching of History and Geography.

Prerequisite: Bachelor's degree with History or Geography major or written consent of Professor E. Deyell, Faculty of Education, The University of British Columbia.

Pre-reading required: Nevins, *The Gateway to History*, and five essays from each of Meyerhoff, *The Philosophy of History in our Time* and Stern, *The Varieties of History*, Bruner, *The Process of Education*, Hartshorne, *Perspective on the Nature of Geography*, Rand-McNally.

Ten lecture-seminar hours a week—3 units.

Miss Deyell, Mr. Owen.

Home Economics.

The course will review the philosophy, purpose and functions of Home Economics in the secondary school. Studies to be made of recent research on curriculum organization, methods of teaching, teaching aids, testing for comprehensions and attitudes.

Prerequisite: S.B. certificate in Home Economics.

Ten hours lectures a week—3 units.

Research in Reading.

Sources for locating research in reading, types of research and pioneer research, critical appraisal of research design and methodology in conducting research in reading.

Prerequisite: Education 415.

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

Textbooks: Causey, *The Reading Teacher's Reader*, Ronald Press; Harris, *Readings in Reading Instruction*, David McKay.

Ten hours lectures a week—3 units.

Mr. Westermark.

Science.

Prerequisite: Education 204 or 404.

Ten hours lectures a week—3 units.

Mr. Hutchings.

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.

Textbooks: C. E. Phillips, *The Development of Canadian Education,* (W. J. Gage).

Ten hours lectures a week—3 units.

523. Comparative Education.

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

Prerequisites: Education 400, 404 or 410.

Textbook: Thut and Adams, *Educational Patterns in Contemporary Societies,* McGraw-Hill, 1964.

Ten hours lectures a week—3 units.

Mr. Halls.

530. Psychology of Learning.

Theories of learning, and results of research in learning. Particularly a study of the process of instruction and the management of classroom learning situations in relation to sets of variables associated with (a) initial learning, (b) maintenance of learning, (c) transfer of learning.

Prerequisite: Education 102 or 301, or consent of instructor.

Pre-reading recommended: E. R. Hilgard, *Theories of Learning,* 2nd ed.; Appleton-Century-Crofts, 1956.

E. R. Hilgard, *Theories of Learning and Instruction,* 63rd Yearbook (N.S.S.E.), Univ. Chicago Press, 1964.

Ten hours lectures a week—3 units.

Miss Smith.

533. Psychology of Handicapped Children.

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

Prerequisite: Education 407.

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

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

Ten hour lectures a week—3 units.

Miss David.

535. Evaluation.

Basic principles; tests and other instruments for measuring instruction.

Prerequisite: Education 301 or 435.

Textbooks: Adams, *Measurement and Evaluation, Psychology and Guidance,* Holt, Rinehart and Winston, 1964; Lefever and Carnes, *A Workbook in Measurement and Evaluation,* College Bookstore, 3413 South Hoover Blvd., Los Angeles 90007, 1956.

Ten hours lectures a week—3 units.

Mr. Lefever.

536. Individual Tests.

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

Limited to 15 students.

Prerequisites: Education 301 and Education 435.

Anastasi, *Psychological Testing*, MacMillan, 2nd ed.

Ten hours lectures a week—3 units.

Miss Goodman.

556. Administration of School Systems.

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

Prerequisite: Education 557 or 558 or permission of instructor.

Five hours lectures a week—1½ units.

557. Administration and Supervision of the Elementary School.

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

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

Ten hours lectures a week—3 units.

Mr. Jackson.

558. Administration and Supervision of the Secondary School.

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

Ten hours lectures a week—3 units.

Mr. Hartrick.

560. Theories and Principles of Educational Administration.

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

Prerequisites: Education 460, 557 or 558 or consent of instructor.

Five hours lectures a week—1½ units.

562. Curriculum Organization in the Elementary School.

History and development of elementary curricula; principles of organization and adaptation; articulation of secondary with higher education programmes.

Five hours lectures a week—1½ units.

563. Curriculum Organization in the Secondary School.

History and development of secondary curricula; principles of organization and adaptation; articulation of secondary with higher education programmes.

Five hours lectures a week—1½ units.

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.

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.

English.

Textbooks: Vygotsky, *Thought and Language,* M.I.T. Press, 1962; Halliday, Strevens and McIntosh, *The Linguistic Sciences and Language Teaching,* Longmans, 1964.

Ten hours lectures a week—3 units.

Mr. Britton.

Geography.

New developments in Geographical Thought. Recent trends in Geographical Research. New approaches, new methods and new materials in studying university Geography. Detailed illustrative studies will be undertaken.

Prerequisite: Major in Geography.

Pre-reading recommended: East & Moodie, *The Changing World,* Harrop; Houston, *A social Geography of Europe,* Duckworth, London.

Ten hours lectures a week—3 units.

Mr. Edwards.

Physics.

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

Mr. Lorrain.

567. Principles of Elementary Education.

Recent thought on classroom procedures, provisions for individual differences, discipline. The place of various school subjects in total education, and remedial education in Canada and other countries.

Ten hours lectures a week—3 units.

Mr. Ellis.

570. Advanced Seminar in Educational Sociology.

Development of social theory; contemporary systematic positions and their relation to modern educational theory. Culture. Social motivation. Social problems of administration and control.

Prerequisite: Education 470 or consent of instructor.

Ten hours lectures a week—3 units.

571. Advanced Seminar in Educational Psychology.

Advanced study of research and problems in learning, mental hygiene, measurement.

Prerequisite: Education 530 or approved Senior Course.

Textbook: Sigmund Koch, *Psychology: A Study of a Science,* Vol. 2. General Systematic Formulation, Learning and Special Processes, McGraw-Hill, Toronto, 1959.

Ten hours lectures a week—3 units.

Mr. Schwahn.

577. The Educational Philosophy of John Dewey.

Philosophic presuppositions of Dewey's educational thought; readings in Plato, and William James. Analysis and discussion of *Democracy and Education, Experience and Education* and *Art as Experience* and other texts.

Prerequisite: Previous work in Philosophy, Philosophy of Education or consent of Instructor.

Textbooks: Archambault, *John Dewey on Education,* Modern Library; Rutner, *Intelligence in the Modern World,* Modern Library.

Ten hours lectures a week—3 units.

578. Advanced Seminar in Theories of Guidance and Counselling.

Theory, research, techniques and ethical practices in counselling.

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

Pre-reading: Conant, *Slums and Suburbs,* (McGraw-Hill, 1961). Wrenn, *The Counselor in a Changing World,* APGA 1962. Friedenberg, *The Vanishing Adolescent;* Maslow, *Toward a Psychology of Being,* (Van Nostrand, 1962); Coleman, *Personality, Dynamics and Effective Behavior,* Scott-Foresman, 1960.

Textbooks: Beck, *Philosophical Foundations of Guidance,* Prentice-Hall, 1963; McGowan and Schmidt, *Counseling: Readings in Theory and Practice,* (Holt, Rinehart, & Winston, 1962).

Ten hours lectures a week—3 units.

Miss Nevison.

581. Methods of Educational Research.

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

Open to Master's degree candidates only.

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

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

Five hours lectures a week—1½ units.

582. Statistics in Educational Research I.

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

Prerequisite: Education 482 or consent of instructor.

Open to Master's degree candidates only.

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

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

Five hours lectures a week—1½ units.

INDUSTRIAL EDUCATION

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 3 students.

Prerequisite: Education 150.

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

Twenty hours laboratory a week—3 units.

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

Senior Drafting Room, Vancouver Technical School.

Mr. Story.

353. Design in Industrial Education.

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

Limited enrollment.

Prerequisite: Education 150.

Twenty hours laboratory a week—3 units.

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

Junior Shops, Vancouver Technical School.

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

Junior Shops, Vancouver Technical School.

Mr. Matoush, Section 1; Mr. Waldie, Section 2.

354. Oxy-Acetylene and Arc Welding.

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

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

Prerequisite: Education 150.

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

Twenty hours laboratory a week—3 units.

Mr. Held.

Limited to 15 students.

8:00 a.m. - 12 noon

Welding Shop, Vancouver Technical School.

356. Electronic Fundamentals.

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

Limited to 12 students.

Prerequisite: Education 150.

Textbooks: Henry J. Jacobowitz, *Electronics Made Simple,* B.C. Made Simple Books, 220 Fifth Ave., N.Y., latest ed.; Supt. of Documents, *Basic Electronics, Navpers 10087-A,* U.S. Govt. Printing Office, Washington 25, D.C., latest ed.

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

Mr. Powell, Sec. 1, Mr. Berkey, Sec. 2.

Section 1: 8:00-12 noon.

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

Burnaby Central Sr. Secondary School for both sections.

450. Technology of Woodworking II

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

Limited enrollment.

Prerequisites: Education 150, Education 350.

Twenty hours laboratory a week—3 units.

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

B.C. Vocational School, Burnaby.

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

Senior Wood Shop, Vancouver Technical School.

451. Technology of Metalwork II.

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

Limited enrollment.

Prerequisites: Education 150, Education 351.

Pre-reading required: *Machinery Tool Operation,* Axelrod Burghardt & Anderson, Books I & II.

Textbooks: Holbrook L. Horton (editor), *Machineries Handbook,* Industrial Press, 16th edition; Straper, *Elementary Metallurgy & Metallography* (paper-back).

Twenty hours laboratory a week—3 units.

Mr. Johnstone.

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

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

452. Technology of Woodworking III

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

Limited to 20 students.

Prerequisite: Education 150.

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

Junior Shops, Vancouver Technical School, 8:00-12 noon.

Mr. Dalsvaag.

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 18 students.

Prerequisite: Education 150.

Pre-reading recommended: Stockel, *Auto Mechanics,* Goodhart Wilcox Co., latest edition.

Twenty hours laboratory a week—3 units.

Mr. Mitchell.

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

Auto Mechanics Shop, Vancouver Technical School.

454. Pattern-making and non-ferrous casting techniques.

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

Limited to 18 students.

Prerequisite: Education 150.

Textbook: Rusinoff, *Foundry Practices,* American Technical Society, latest edition.

Twenty hours laboratory a week—3 units.

Mr. Catherall.

One section, 8:00 a.m.-12:00 noon.

Foundry, Vancouver Technical School.

455. Principles of Design and Construcion of Small Boats.

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

Limited to 18 students.

Prerequisite: Education 150.

Textbooks: Glenn L. Witt, *Boat Building With Plywood,* Glenn L. Witt Publications, Bellflower, California; Michael Verney, *Complete Amateur Boat-building,* (Macmillan), latest edition.

Twenty hours laboratory a week—3 units.

Mr. Douglas.

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

Vancouver Technical School.

ENGLISH

100. Literature and Composition.

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

Pre-reading required: Students should pre-read the novels by Conrad and Huxley and the two plays listed below.

Textbooks: D. H. Lawrence, *England, My England,* Penguin; Joyce, *The Dubliners,* Penguin; Faulkner, *Selected Short Stories,* Modern Library; Hemingway, *The Snows of Kilimanjaro,* Scribner's (paperback); Mansfield, *Bliss,* Penguin; Shaw, *Major Barbara,* Penguin; Synge, *Playboy of the Western World,* Barnes & Noble (paperback); Conrad, *The Secret Agent,* Penguin; Huxley, *Brave New World,* Penguin; Williams, *A Little Treasury of Modern Poetry,* Scribner's.

Ten hours lectures a week—3 units.

Mr. Cook, Mr. Seamon, Miss Wells.

200. Literature and Composition.

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

Prerequisite: English 100.

Pre-reading: Preliminary reading is required: about 20% of the total credit for the course will be given on the results of an examination held during the first week of the Summer School term and covering the works by Shakespeare, Swift, Austen, Dickens, and Eliot.

Textbooks: *Hamlet,* ed. Rylands; Dunn, *A Chaucer Reader;* Smith, *Seven Centuries of Verse;* Mack, *Milton;* Swift, *Gulliver's Travels,* Riverside Austen, *Emma,* Riverside; Dickens, *Great Expectations;* Eliot, *Middlemarch;* Parkinson, *Masterworks of Prose.*

Ten hours lectures a week—3 units.

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

Mr. Carscallen, Mr. Creighton, Mr. Elliott, Mr. Grenberg, Mr. Johnson, Mr. Killam, Mr. Maynard, Rev. McKenzie, Mr. Molyneux, Mr. Whitehead.

303. English Composition.

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

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

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

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

(c) those who previously failed English 300.

(Please indicate your priority on your registration material.)

Limited to 15 students.

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

Ten hours lectures a week—3 units.

Mrs. Blom, Mr. England, Mr. Pinkus, Mrs. Ross, Mr. Sandison, Mr. Sharman, Miss Shaw, Mrs. Tedford, Miss Wells.

304. Advanced English Composition.

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

Limited to 15 students.

Textbook: Read, *English Prose Style.*

Ten hours lectures a week—3 units.

Mr. Powell, Mr. Surette, Mr. Yeomans.

309. Modern English and its Background.

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

Textbooks: Allen, *Readings in Applied Linguistics;* Gorrell and Laird, *English as Language.*

Ten hours lectures a week—3 units.

Mr. Reed.

310. Classics of European Literature.

Textbooks: Balzac, *Old Goriot;* Stendhal, *Scarlet and Black;* Flaubert, *Madame Bovary;* Zola, *L'Assommoir;* Turgenev, *Fathers and Children;* Tolstoy, *Anna Karenina;* Dostoevsky, *Notes from the Underground;* Chekov, *Peasants and Other Stories;* Proust, *Swann's Way;* Gide, *The Immoralist;* Mann, *Tonio Kroger;* Kafka, *The Trial;* Svevo, *Confessions of Zeno;* Moravia, *Two Addescents;* Sartre, *Nausea;* Camus, *The Stranger.*

Ten hours lectures a week—3 units.

Mr. Rimanelli.

311. 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.

Ten hours lectures a week—3 units.

Mr. Sandelin, Mrs. Hart, and others.

355. Chaucer.

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

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

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

Ten hours lectures a week—3 units.

Mr. Pearsall.

366. Shakespeare.

Lectures on various aspects of Shakespeare's art. Detailed study of *Romeo and Juliet, A Midsummer Night's Dream, The Merchant of Venice, Henry V, Measure for Measure, King Lear, Antony and Cleopatra, The Winter's Tale.*

Ten hours lectures a week—3 units.

375. Milton.

The work of Milton, with special emphasis on *Paradise Lost.*
Ten hours lectures a week—3 units.

Textbook: *Odyssey,* Press edition of Milton's works.

Mr. Gair.

380. Eighteenth-Century Literature.

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

Textbooks: Bredvold, *Eighteenth Century Poetry,* 2nd ed.; Swift, *Gulliver's Travels,* Modern Library; Defoe, *Moll Flanders,* Rinehart; Johnson, *Selected Prose and Poetry,* Rinehart; Boswell, *Life of Johnson,* Scribner; Goldsmith, *Selections,* Methuen, or *The Vicar of Wakefield,* Modern Library.

Ten hours lectures a week—3 units.

Mrs. Mackenzie.

391. The Romantic Period.

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

Textbook: Moyes, *English Romantic Poetry and Prose.*

Ten hours lectures a week—3 units.

Mr. Garrett.

392. Victorian Poetry.

Chiefly Tennyson, Browning, and Arnold. Other poets will also be studied.

Textbook: Houghton and Stange, *Victorian Poetry and Poetics.* Advance reading is recommended. Supplementary lists will be issued.

Ten hours lectures a week—3 units.

Mr. Robbins.

420. 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.

Textbooks: Untermeyer, *Modern British Poetry;* Hardy, *Return of the Native, Tess of the D'Ubervilles;* Butler, *Way of All Flesh;* Moore, *Esther Waters,* or Bennett, *The Old Wives' Tale;* Wells, *Mr. Polly* or *Toad-Bungay;* Conrad, *Nigger of the Narcissus, Heart of Darkness, Secret Agent;* Wilde, *Importance of Being Earnest;* Synge, *Riders of the Sea, Playboy of the Western World;* Shaw, *Mrs. Warren's Profession, Candida, You Never Can Tell, Man and Superman, Major Barbara, Heartbreak House.*

Ten hours lectures a week—3 units.

Mr. Wisenthal.

429. Contemporary Literature.

Major figures and trends in English literature between 1914 and 1960. Authors studied include Eliot, Yeats, Joyce, Lawrence, Woolf, Forster, Waugh, Orwell, Auden, and Thomas.

Textbooks: Williams, *Pocket Book of Modern Verse;* Alvarez, *The New Poetry;* Joyce, *Dubliners, A Portrait of the Artist, Ulysses;* Lawrence, *Women in Love;* Forster, *Passage to India;* Woolf, *To the Lighthouse.*

Ten hours lectures a week—3 units.

Mr. Churchill.

440. Canadian Literature.

A survey of the literature in the English tongue, with some attention to major French-Canadian works in translation.

Textbooks: Klinck & Watters, *Canadian Anthology;* Smith, *The Oxford Book of Canadian Verse,* Oxford; Brooke, *The History of Emily Montague;* Moodie, *Roughing it in the Bush;* Grove, *Over Prairie Trails;* Ross, *As for Me and My House;* Mitchell, *Who Has Seen the Wind;* Roy, *The Tin Flute* Callaghan, *The Loved and the Lost;* Wilson, *Hettie Dorval;* Wilson, *The Innocent Traveller;* MacLennan, *Barometer Rising* or *Two Solitudes;* MacLennan, *The Watch that Ends the Night;* Lowry, *Hear Us O Lord from Heaven Thy Dwelling Place;* Richler, *The Apprenticeship of Duddy Kravitz;* Klein, *The Second Scroll;* Wiseman, *The Sacrifice;* Moore, *The Luck of Ginger Coffey;* Haliburton, *Sam Slick the Clockmaker;* Leacock, *Sunshine Sketches* and *Literary Lapses;* Davies, *Leaven of Malice.*

Ten hours lectures a week—3 units.

Mrs. Francis.

451.American Poetry.

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

Textbooks: Whitman, *Leaves of Grass and Selected Prose,* Modern Library (paperback); Dickinson, *Selected Poems,* Dell (paperback); Robinson, *Selected Early Poems,* Holt, Rinehart & Winston (paperback); Tate, *Poems,* Swallow (paperback); Ransom, *Poems and Essays,* Vintage (paperback); Williams, *Selected Poems,* New Directions (paperback); Stevens, *Poems,* Vintage (paperback); Eliot, *Selected Prose,* Peregrine (paperback); Eliot, *Selected Poems,* and *Four Quartets,* Faber (paperback); Pound, *Selected Poems,* Faber (paperback); Frost, *Poems,* Pocket Library (paperback).

Ten hours lectures a week—3 units.

Mr. Hart.

454. American Fiction.

A study of the major American novelists from Cooper to Faulkner.

Textbooks: Cooper, *The Prairie;* Hawthorne, *The Scarlet Letter;* Melville, *Moby Dick;* Twain, *Adventures of Huckleberry Finn;* James, *Portrait of a Lady;* Crane, *Red Badge of Courage;* Dreiser, *Sister Carrie;* Hemingway, *For Whom the Bell Tolls;* Fitzgerald, *The Great Gatsby;* Faulkner, *The Sound and the Fury.*

Ten hours lectures a week—3 unit.

Mr. Labrie.

515. Shakespeare.

A detailed consideration of twelve of Shakespeare's comedies with emphasis on dramatic structure, Elizabethan theatrical conventions and Shakespeare's utilization of source materials.

Limited to 12 students. Permission of the Department required and must be obtained in writing. No other course may be taken concurrently.

Prerequisite: Prospective students should have completed an undergraduate course in Shakespeare and should be familiar with the following plays: *The Comedy of Errors, The Two Gentlemen of Verona, Love's Labour's Lost, A Midsummer Night's Dream, As You Like It, The Merchant of Venice, Measure for Measure, All's Well That Ends Well, Troilus and Cressida, Cymbeline, The Winter's Tale,* and *The Tempest.*

Ten hours lectures a week—3 units.

Mr. Creigh.

FINE ARTS

NOTE: *The following courses are for credit only in the Faculty of Education, with the exception of Fine Arts 125 and 228, which are for credit in the Faculty of Arts or Science. Students enrolling in Education Fine Arts courses above*

the "300" level must be prepared to submit art work to their instructor on the first day of lectures. The work submitted should show evidence of serious extra-curricular effort and will assist the instructor in guiding the student.

101. History of the Fine Arts.

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

For credit only in the Faculty of Education.

Textbooks: (Art) Jansen, *History of Art,* Prentice-Hall, and (Music) Grout, *History of Western Music,* Norton, latest edition.

Ten hours lectures a week—3 units.

Mr. Balogh.

125. History of Art. (Formerly 225).

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

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

Ten hours lectures a week—3 units.

Mr. Hart.

228. Design Fundamentals.

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

30 students per section.

Prerequisite: Each student must get in touch with Mr. Thomas, either in person or by letter, concerning the prerequisites.

Pre-reading recommended: Anderson, *Elements of Design.*

Textbooks: Anderson, *Elements of Design,* Reinhart & Winston, 1st ed., de Sausmarez, *Basic Design: The Dynamics of Visual Form,* Studio Books, 1964.

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

Mr. Thomas.

300. Introduction to the Plastic and Graphic Arts.

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

For credit only in the Faculty of Education.

Limited to 25 students majoring in Art.

Prerequisite: Fine Arts 101.

Sketch Book required, obtainable at University Book Store.

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.

Textbook: *The Natural Way to Draw Nicolaides.*

For credit only in the Faculty of Education.

Limited to 20 students majoring in Art.

Prerequisites: Fine Arts 101 and 300, completed with adequate standing.
Ten hours lectures and ten hours laboratory a week—3 units.
Mr. Black.

302. Drawing and Painting.

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

Prerequisites: Fine Arts 101 and Fine Arts 300.
For credit only in the Faculty of Education.
Limited to 15 students majoring in Art.
Ten hours lectures and ten hours laboratory a week—3 units.
Mr. Baxter.

303. Ceramics and Modelling I.

Introduction to wheel techniques, hand building preparation of clays, introduction to glazes and kiln-firing techniques.

Limited to a total of 15 students for Fine Arts 303, 403, 413.

Prerequisites: Fine Arts 300 and 302, or equivalent courses.
For credit only in the Faculty of Education.
Textbook: J. R. Krum, *Hand-Built Pottery*, International Textbook Co.
Ten hours lectures and ten hours laboratory a week—3 units.
Mr. Lewis.

305. Design I.

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

Limited to a total of 15 students for Fine Arts 305, 405, 415.

Prerequisites: Fine Arts 300 and 302 or equivalent courses.
Ten hours lectures and ten hours laboratory a week—3 units.
Mr. Tompkins.

307. Graphic Arts I.

This course includes instruction in the basic techniques of relief printing (lino cuts, wood-cuts, wood engravings); also experimental techniques in silk screen printing.

Limited to a total of 15 students for Fine Arts 307, 407, 417.

Prerequisites: Fine Arts 300 and 302 or equivalent courses.
Ten hours lectures and ten hours laboratory a week—3 units.
Mr. Steele.

326. The History of Oriental Art.

A survey of the art of India, China, and Japan. Open to Second Year students. Fine Arts 326 is normally a prerequisite for Fine Arts 426, 427 and 429.

Textbook: Lee, *A History of Far Eastern Art*, Prentice-Hall.
Ten hours lectures per week—3 units.
Miss Morehart.

330. Ancient Western Art.

A survey of the art of Egypt, Mesopotamia, Greece and Rome. Open to second year students.
Ten hours lectures a week—3 units.

401. Painting I.

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

Prerequisites: Fine Arts 300 and 302 or equivalent courses.

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

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

Mr. Boyd.

402. Painting II.

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

Prerequisite: F.A. 401.

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

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

Mr. Yates.

403. Ceramics and Modelling II.

Use of potter's wheel, molds, special clays. Investigation of pottery form and of glazes.

For credit only in the Faculty of Education.

Limited to a total of 15 students for Fine Arts 303, 403, 413.

Prerequisite: Fine Arts 303 or equivalent course.

Pre-reading: Daniel Rhodes, *Clay and Glazes.*

Textbook: Rottger, *Creative Clay Design,* Reinhold Publishing Co.

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

Mr. Lewis.

405. Design II.

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

Limited to a total of 15 students for Fine Arts 305, 405, 415.

Prerequisite: Fine Arts 305 or equivalent course.

Ten hours lectures a week—3 units.

Mr. Tompkins.

407. Graphic Arts II.

This advanced course will include study in intaglio printing (etching, drypoint) as well as planographic printing (lithography). Emphasis will be placed on creative experimentation in these two graphic art techniques.

Limited to a total of 15 students for Fine Arts 307, 407, 417.

Prerequisite: Fine Arts 307 or equivalent course.

Mr. Steele.

413. Ceramics and Modelling.

A special study in ceramics as artistic expression. A study of sources.

Prerequisites: Fine Arts 303 and 403 or equivalent courses.

Pre-reading required: Rhodes, *Clay and Glazes;* M. Wildenhain, *Pottery Form and Expression;* Glenn Nelson, *Ceramics.*

Text book: Bernard Leach, *A Potter's Book,* Trans-Atlantic.

Limited to a total of 15 students for Fine Arts 303, 403, 413.

For credit only in the Faculty of Education.
Ten hours lectures a week—3 units.
Mr. Lewis.

415. Design III.
A special study in an advanced field of design.
Limited to a total of 15 students for Fine Arts 305, 405, 415.
Prerequisite: Fine Arts 405.
Ten hours lectures a week—3 units.
Mr. Tompkins.

417. Graphic Arts III.
A special study of an advanced field of graphic arts.
Limited to a total of 15 students for Fine Arts 307, 407, 417.
Prerequisites: Fine Arts 407 or equivalent courses.
Ten hours lectures a week—3 units.
Mr. Steele.

FRENCH

110. First Year French.
Study of French texts; grammar, pronunciation.
Prerequisite: French 20.
Pre-reading: Grant, Sachs and Sachs, *French Stories, Plays, Poetry,* (New York, Oxford University Press).
Textbook: Mondelli, *French Conversational Review Grammar,* (American Book Company).
Ten hours lectures a week—3 units.
Mr. Arnold, Miss Kushnir.

120. French Language and Literature, Part I.
Prerequisite: French 92.
Textbooks:
(1) *Reflex French* (Greene, Faucher, Healy). Macmillan Co. of Canada. Toronto, 1960.
(2) *Voix du Siècle,* (Edition by Smith-Savacool, (Harcourt, Brace and World).
(3) Albert Camus, *L'Etranger,* (Edition by G. Bree and Carlos Lynes, Jr.). Appleton, Century, Crofts, New York, 1955).
(4) Jean Anouilh, *Antigone,* (Edition by D. Grossvogel) Integral Edition. Cambridge, Mass.
Ten hours lectures a week—3 units.
Miss Franklyn.

210. Second Year University French.
Prerequisite: French 110.
Pre-reading: There will be a test before the end of the first week on the following required pre-reading: Mulhauser, Desberg, Saisselin, *Le Français d'aujourd'hui: écrit et oral,* pp. 145-186; *La France Actuelle,* pp. 3-60 (excluding dialogues and exercises).
Textbooks; Mulhauser, Desberg, Saisselin, *Le Français d'aujourd'hui: écrit et oral,* (Ginn & Co.); Bauer, *La France Actuelle,* Houghton-Mifflin Co.
Ten hours lectures a week—3 units.
Mr. Holdaway, Mr. Niederauer.

220. French Language and Literature, Part II.

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

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

Students will find it helpful also to have studied as much as possible of: Wordsworth, *Modern French Syntax and Composition;* Gregg, *A Student's Manual of French Pronunciation.*

Textbooks: In Classiques Larousse editions: Molière, *L'Avare;* Flaubert, *Trois Contes;* Ferrar, *A French Reference Grammar;* Gregg, *A Student's Manual of French Pronunciation,* Macmillan, 1960; Bird, *French Review Grammar Drills,* U.B.C., 1958; La Fontaine, *Fables,* Vols. I & II, Classiques Larousse; Racine, *Bajazet,* Classiques Larousse; Voltaire, *Romans et Contes,* Garnier; Saint-Exupéry, *Terre des Hommes,* Gallimard, Livre de poche.

Ten hours lectures a week—3 units.

Mr. Hamlin.

223. Training in Speech and Writing.

Composition, discussion, stylistics.

Prerequisite: Completion of French 210 or equivalent.

Textbooks: Michaud, *Guide France,* Hachette; Greene, Faucher, Healy, *Reflex French,* Macmillan Co.

Ten hours lectures a week—3 units.

Mr. Baril.

302. Studies in French Language and Style.

Composition; syntax.

Limited number of students.

Prerequisite: 2nd class standing in French 220.

Textbooks: W. Whitmarsh, *Cours Supérieur,* (Longmans); Carlut-Brée, *France de Nos Jours,* Macmillan.

Ten hours lectures a week—3 units.

Miss Brearley, Miss Primeau.

304. Advanced Studies in French Language and Style.

Prerequisite: French 302.

Textbook: Ginestier, Maillet, Alvernhe, *Culture et Civilisation Française,* Didier, 1962.

Ten hours lectures a week—3 units.

Mr. Tremblay.

410. Literature of the Eighteenth Century.

A study of the drama and the novel of the period, together with the basic writings of Montesquieu, Voltaire, Diderot, and Rousseau.

Textbooks: Lesage, *Turcaret; Voltaire, Zaïre;* Sedaine, *Le philosophe sans le savoir;* Beaumarchais, *Le Mariage de Figaro;* Marivaux, *Le Jeï de l'amour et du hasard* Prévost, *Manon Lescaut;* Rousseau, *La Nouvelle Héloise;* Voltaire, *Romans et contes;* Laclos, *Les Liaisons dangereuses;* Fellows and Torrey, *The Age of Enlightenment.*

Ten hours lectures a week—3 units.

Mr. Bongie.

504. The Novel from 1600 to 1680. ***(No other course may be taken by students who choose this Graduate Course—French 504.)***

A study of representative novels and an analysis of literary and social trends.

Pre-reading required: Charles Sorel: *Histoire Comique de Francion.* (In: *Romanciers du XVIIe siècle.* Gallimard.); Honoré d'Urfé: *L'Astrée* (Extraits). Larousse; Tristan l'Hermite: *Le Page disgracie.* Stock; Madame de Lafayette:

a Princesse de Montpensier and *Zaide,* (In: *Romans et Nouvelles of Madame e Lafayette.* Classiques Garnier).

Pre-reading recommended: Antoine Adam: *Histoire de la Littérature Fran- aise au XVIIe siècle.* Domat. 5 vol.; Maurice Magendie: *La Politesse mon- laine et les théories de l'honnêteté, en France, au XVIIe siècle, de 1600 à 660:* Alcan. 2 vol.; Daniel Mornet: *Histoire de la Littérature Française Class- que, 1660-1700, ses caracteres véritables, ses aspects inconnus.* Colin: *Moses* Ratner: *Theory and Criticism of the Novel in France* from *L'Astrée* to 1750. De Palma Printing Co. Inc. U.S.A.; Gustave Reynier: *Le Roman Réaliste au XVIIe Siècle.* Hachette; Gustav Reynier: *Le Roman Sentimental avant l'Astrée.* Colin.

Textbooks: Sorel, Scarron, Furetiere, Madame de La Fayette, *Romanciers du XVIIe Siècle,* Gallimard, Antoine Odam ed.; Honoré d'Urfé, *L'Astrée* (Extraits), Larousse, Maurice Magendie ed..; *Tristan l'Hermite, Le Page Disgracié,* Stock, Marcel Arland ed.; Scarron, *Nouvelles Tragi-Comiques,* Stock, Jean Cassou ed.; Madame de Lafayette, *Romans et Nouvelles,* Garnier, Emile Magne ed.

Ten hours lectures a week—3 units.

Miss Dallas.

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

GEOGRAPHY

100. Introduction to Regional Geography (formerly Geography 303).

A survey of physical and cultural geography; selected regions.

Enrollment limited to 175.

Textbook: Murphey, *Introduction to Geography,* Goode's Regional Atlas. Required for 3rd year Education students, and available as an elective in other faculties.

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

(Practicals meet throughout each day and will be assigned at the first lecture).

Miss Hobson.

101. Introduction to Physical Geography.

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

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

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

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

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

Mr. Stager.

201. Economic and Human Geography.

An introduction to population, resources, and predominant economies; industrialization and urbanization.

Textbook: Alexander, *Economic Geography.* Atlas. Assigned readings.

Geography 201 is required for the geography major, preferably preceding third year.

Ten hours lectures a week—3 units.

Mr. Hardwick.

302. Climatology.

Physical and descriptive meteorology and climatology; weather maps and charts; classification of climates; regional climatology; hydrometeorology.

Prerequisite: Geography 101, or equivalent.

Recommended for science majors.

Textbook: Miller and Parry, *Everyday Meteorology*, Hutchinson's.

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

Mr. Miller.

307. Political Geography.

The viability of political regions in terms of the relationship between political process and territory. Selected political geographic problems such as discontinuity, partition, regional union, disputed areas, and boundary change, illustrated by a variety of specific regional examples.

Prerequisite: Geography 201 or 303. Available for history majors.

Textbook: Alexander, L. M., *World Political Patterns*, 1963 Edition. Oxford Atlas.

Enrolment is limited to the first 75 registrants.

Ten hours lectures per week—3 units.

Mr. Minghi.

405. Geography of Latin America.

Human and physical patterns in Latin America; discussion of selected regions.

Prerequisite: Geography 101 or 201.

Textbook: James, *Latin America* (3rd edit.).

Enrolment is limited to first 60 registrants.

Ten hours lectures a week—3 units.

Mr. Pederson.

407. Historical Geography of North America.

The geographical implications of the exploration, settlement and economic development of North America as expressions of regional variations in the process of social change and economic growth.

Prerequisite: Geography 201, and History 302 or 212 are recommended but not required.

Textbook: Assigned readings.

Enrolment is limited to the first 75 registrants.

Ten hours lectures per week—3 units.

Mr. Ward.

409. Geography of Canada.

Regional aspects of natural resources of Canada and their use; the basis of human occupance; geographical problems in national development.

Prerequisite: Geography 101 or 201 or 303.

Textbook: Putnam, *Canadian Regions*, 1956. Recommended but not required. Atlas of Canada separate sheets.

Enrolment is limited to first 75 registrants.

Ten hours lectures per week—3 units.

Mr. Nicholson.

GEOLOGY

105. General Geology.

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

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

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

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

Mr. Campbell.

210. Mineralogy.

A comprehensive treatment of the more important crystal classes. Descriptive and determinative mineralogy. Elementary crystal chemistry.

Prerequisite: Geology 105, 150, or equivalent.

Textbook: Berry and Mason, *Mineralogy*, Freeman.

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

Mr. Thompson.

GERMAN

100. First Year German.

Introduction to the language.

Textbooks: Kirch-Moenkemeyer, *Functional German*, American Book Co., N.Y.; Goedsche-Glaettli, *Schweitzer; Heine*, American Book Co., N.Y.

Ten hours lectures a week—3 units.

Mr. Medveczky.

200. Second Year German.

Reading, grammar, composition.

Prerequisite: German 100.

Textbooks: Russon, *Complete German Course for First Examinations*, Longman's Canada Ltd., First ed. (1964 impression); *Lesen und Hören*, Daniel C. McCluney, Jr. ed., Norton, 1963.

Ten hours lectures a week—3 units.

Mr. Beaumont.

223. Intermediate Composition and Oral Practice.

Prerequisite: German 210, or First Class in German 120 or 200.

Textbooks: Dutton, *German Prose Composition for Sixth Forms*, George G. Harrap & Co. Ltd.; *Die Zeit*, 2 months subscription required.

Ten hours lectures a week—3 units.

Mr. Hodson.

300. The Classical Period.

Drama of the 18th Century, with emphasis on Goethe and Schiller.

Pre-reading required: Schiller, *Die Räuber*, Editiones Helveticap, Goethe, *Götz von Berlichingen*, Editiones Helveticae.

Textbooks: *Faust I; Iphigenie; Egmont*, Editiones Helveticae; Schiller, *Don Carlos; Wallenstein I & II; Maria Stuart*, Editiones Helveticae.

Ten hours lectures a week—3 units.

Mr. McNeely.

404. The Romantic Movement.

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

Textbooks: *Die deutschen Romantiker*, ed. Stenzel, 2 vols.

Ten hours lectures a week—3 units.

Mr. Krügel.

413. The German Novel in the Twentieth Century.

A study of the principal German novelists and the main developments in epic form between 1900 and the present day.

Prerequisite: German 200 or 210 or 223.

Pre-readings required: Th. Mann: *Buddenbrooks,* H. Hesse: *Der Steppenwolf,* F. Kafka: *Amerika,* G. Gaiser: *Schlussball.*

Textbooks: Heinrich Böll, *Billiard um halb zehn,* Knaurtaschenb. 8, Berlin Alexanderplatz, *A. Döblin,* Ullstein (paperback); M. Frisch, *Homo Faber,* Suhrkamp, Bibl. Suhrk. 87; *Schlussball,* G. Gaiser, Fischer (paperback); *Der Steppenwolf,* H. Hesse, D.T.V. No. 147; *Buddenbrooks,* Th. Mann, Fischer, E.C. 13; *Amerika,* F. Kafka, Fischer, (paperback).

Ten hours lectures a week—3 units.

Mr. Miller.

HISTORY

201. England from the Fifth Century to 1509.

A survey of the main themes of English History from the Anglo-Saxon settlements to the end of the Middle Ages.

Textbooks: G. O. Sayles, *Medieval Foundations of England;* Stephenson and Marcham, *Sources of English Constitutional History.*

Ten hours lectures a week—3 units.

Father MacKinnon.

202. History of Canada.

Introductory general course.

Textbook: McInnis, *Canada.*

Ten hours lectures a week—3 units.

Mr. Upton.

212. History of the United States of America.

From Colonial times to the present day.

Ten hours lectures a week—3 units.

Mr. Morgan.

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. Kubicek.

313. Renaissance and Reformation.

A study of the Italian Renaissance as a cultural movement and of the continental Reformation in its intellectual, social, and political aspects.

Ten hours lectures a week—3 units.

407. History of Modern Germany.

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

Ten hours lectures a week—3 units.

Mr. Kent.

419. Great Britain Since 1832.

Readings to be assigned.

Note: History 426 will be offered in 1966.

428. An Intellectual History of the United States from the Colonial Period to the Present Day.

Ten hours lectures a week—3 units.

Mr. Wish.

HOME ECONOMICS

101. Colour and Design.

Analysis of relationship of design elements; line, form, pattern, colour, texture. Application of principles in experimental studio problems. Colour theory and use.

Textbook: Warner: *Art and Everyday Experience.*

Note: H.E. 101 and 403 are presented as a 3-unit course and must be taken in that manner.

403. Interior Design.

Analysis of design elements for use in selection of furnishings and accessories; application of design principles in arrangements; scaled plans; traditional and contemporary concept of interiors.

Textbook: Faulkner: *Inside Today's Home, 1960.*

Note: H.E. 101 and 403 are presented as a 3-unit course and must be taken in that manner.

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

Mr. Banner.

105. Food Management I.

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

Limited to 30 students.

Prerequisite: H.E. 91 or equivalent.

Texts: Heseltine and Dow, *The New Basic Cookbook,* 1957; Hughes, Osse, *Introductory Foods,* 1962.

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

Miss Briant.

300. Home Management I.

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

Limited to 30 students.

Textbook: Gross and Crandall, *Management for Modern Families,* 2nd ed., 1963.

Prerequisites: H.E. 102-104, 105.

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

Miss Nyman, Miss Harper.

INTERNATIONAL STUDIES

Students who have enrolled as International Studies majors or honours candidates may take Political Science 308, formerly International Studies 301, for credit towards the completion of their programme.

ITALIAN

100. First Year Italian.

Grammar, reading, conversation.

Textbooks: Cioffari, *Beginning Italian Grammar,* (Heath); Fowler and Della Torre, *Andiamo in Italia,* (Harrap).

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

Mrs. Ciccone.

200. Second Year Italian.

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

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

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

Ten hours lectures a week—3 units.

Miss Tomsich.

310. Italian Civilization.

The intellectual history of Italy for the last thousand years. Lectures in English, reading in English or Italian.

Pre-reading recommended: List available from the Secretary, Department of Romance Studies.

Ten hours lectures a week—3 units.

Miss Giese.

LATIN

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

Intended primarily for students attending the Summer Session. A substantial amount of a Roman author (in 1965 Julius Caesar) will be read, partly in the original and partly in English translation, the amount of the original varying with the student's preparation. Students desiring credit in Latin 120, 200, 210, 220, 407 or 530 will register for this course under the appropriate number and will receive three units of credit upon the successful completion of the appropriate amount of work. Students who have failed Latin 110 in the winter session will not be admitted.

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

Pre-reading for Latin 200: first twelve units of De Witt, Gummere and Horne, *College Latin.* Will be available in the Bookstore.

Textbooks will be available in the Bookstore. Translation: Julius Caesar, *The Conquest of Gaul,* S. A. Handford.

Ten hours lectures a week—3 units.

Mr. Guthrie.

MATHEMATICS

120. Fundamental Mathematics.

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

Prerequisite: Mathematics 91 or equivalent.

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

Ten hours lectures a week—3 units.

Mr. Howitz.

200. Algebra and Geometry.

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

Prerequisite: Mathematics 202. May be counted for third year credit in the Faculty of Arts only.

Ten hours lectures a week—3 units.

Mr. Anderson.

201. The Mathematical Theory of Investment.

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

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

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

Ten hours lectures a week—3 units.

Mr. Dreyfuss.

202. Calculus.

Differential and integral calculus, with applications.

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

Prerequisite: Mathematics 101 (Grade 13) or 120.

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

Mr. Bonnice.

203. Elementary Mathematics for Teachers.

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

Students should not register for another course.

Ten hours lectures a week—3 units.

Mr. Gray.

205. Elementary Statistics.

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

Prerequisite: Mathematics 101 (Grade 13), 110 or 120.

Ten hours lectures a week—3 units.

Mr. Smith.

300. Calculus II.

Differential and integral calculus with applications.

Prerequisite: Mathematics 202 or 220.

Textbook: Thomas, *Calculus and Analytic Geometry,* Part II, Addison-Wesley.

Ten hours lectures a week—3 units.

Mr. Kuang.

303. Mathematics for Elementary Teachers.

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

Ten hours lectures a week—3 units.

Mr. Rousseau.

306. Topics in Geometry.

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

Prerequisite: Mathematics 202 or 220.

Ten hours lectures a week—3 units.

Mr. Macskasy.

308. Topics in Algebra.

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

Prerequisite: Mathematics 202 or 220.

Ten hours lectures a week—3 units.

Mr. McPherson.

322. Vector Spaces and the Theory of Matrices.

Ten hours lectures a week—3 units.

Mr. Moyls.

410. Differential Equations.

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

Prerequisite: Mathematics 300.

Ten hours lectures a week—3 units.

Mr. Rosenberg.

504. Convex Bodies.

Ten hours lectures a week—3 units.

Prerequisites: Math. 320, 321, and 322, or permission of the Department.

Textbook: H. G. Eggleston, *Convexity (Cambridge Tract in Mathematics No. 47)*, Cambridge, 1958.

Mr. Scherk.

511. Knot Theory.

Prerequisites: Mathematics 400 and 401, or permission of the Department.

Textbook: Crowell and Fox, *Introduction to Knot Theory*, Ginn & Co., 1963.

Ten hours lectures a week—3 units.

Mr. Crowell.

530. Homological Algebra.

Prerequisite: Mathematics 400, or permission of the Department.

Ten hours lectures a week—1-3 units.

Mr. Hilton.

MUSIC

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

101. Elementary Theory.

Fundamentals of musicianship.

For credit only in the Faculty of Education.

Prerequisite to all other courses in music education.

Ten hours lectures a week—3 units.

Mr. Davis.

120. Introduction to Music History and Literature.

Donald Grout, *A History of Western Music*, Norton; Starr and Devine, *Music Scores Omnibus Scores*, Book 1 & 2, Prentice Hall.

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.

Mr. Douglas.

201. Counterpoint and Harmony.

A continuation and expansion of Music 101.

Prerequisite: Music 101 or equivalent.

Textbooks: Piston, *Harmony;* Norton, latest ed.; Des Marais, *Harmony—a Workbook in Fundamentals,* Norton.

For credit only in the Faculty of Education.

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

302. Instrumental Technics.

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

Limited to 20 students.

For credit only in the Faculty of Education.

Prerequisite: Music 201 or equivalent.

Taylor, *Easy Steps to the Band, Mills,* Conductor's Book; Collins, *Violin Teaching in Class,* Oxford Univ. Press.

Ten hours lectures and laboratory a week—3 units.

Mr. Rose, Mr. Trowsdale.

303. Choral Music.

Principles and technics of choral music.

Prerequisite: Music 201 or equivalent.

Pre-reading recommended: Wilson, *Artistic Choral Singing,* Schirmer.

Textbooks: Ehret, *Choral Conductor's Handbook,* Edward B. Marks Music Corp.; *Selected Choral Music.*

For credit only in the Faculty of Education.

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

Mr. Gibbard.

320. History of Music.

Detailed study of musical development from the earliest times to approximately 1600 and from 1900 to the present day.

Prerequisite: Music 120 or equivalent.

Text-book: Grout, *History of Western Music,* (W. W. Norton).

Ten hours lectures a week—3 units.

Mr. Wilson.

326. Music Appreciation.

Designed for senior students with no musical background.

Textbooks: Copland, *What to Listen for in Music;* Baker, *Pocket Music Dictionary.*

Ten hours lectures a week—3 units.

Mr. Hokanson.

339. Opera Workshop I.

Actual participation in opera and oratorio in Department of Music per formances.

Prerequisite: Pre-registration audition required.

This course will be given 7-10 p.m.

Fifteen hours lectures a week—3 units.

Mr. Tickner.

401. Orchestration and Arranging.

The techniques of writing and arranging for chorus, band, and orchestra.

For credit only in the Faculty of Education.

Prerequisite: Music 201 or equivalent training.

Textbooks: Kennan, *Techniques of Orchestration,* Prentice-Hall; Kennan, *Orchestration Workbook,* Prentice-Hall.

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

Mr. Hultberg.

PHILOSOPHY

100. Introduction to Philosophy.

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

Textbooks: Plato, *Euthypro, Apology, Crito,* Liberal Arts Press; Descartes: *Meditations,* Liberal Arts Press; Berkeley: *A Treasure Concerning the Principles of Human Knowledge,* Liberal Arts Press; Hume, *Dialogues Concerning Natural Religion.*

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

Mr. Jackson.

212. Deductive Logic.

Introduction to traditional formal logic and modern symbolic logic. Topics include the syllogism, the logic of propositions and predicates, axiom systems, the relation between logic and ordinary language.

Textbooks: G. Frege, *The Foundations of Arithmetic,* Harper; A. Tarski, *Introduction to Logic,* Oxford University Press.

Ten hours lectures a week—3 units.

Mr. Hacking.

302. Ethics.

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

Textbook: A. Meldon, *Ethical Theories,* 2nd ed., Prentice-Hall.

Ten hours lectures a week—3units.

Mr. MacKenzie.

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.

A first course in gymnastics.

Limited to 40 students.

Textbook: Thulin, *Gymnastic Handbook,* South Swedish Gymnastic Institute, 1947.

Pre-reading: Christensen and Trap, *Textbook of Gymnastics,* University of London Press, 1011 Warwick Lane, London E.C.4.

One hour per day—1 unit.

Mr. Johnson.

201.Gymnastics II.

A second course in gymnastics including theory of gymnastics.

Limited to 40 students.

Prerequisite: P.E. 101.

Loken & Willoughby, *Complete Book of Gymnastics*, Prentice-Hall; Laporte & Renner, *The Tumblers' Manual*, Prentice-Hall.

Two hours per day, July 5-26 inclusive—1 unit.

Mr. Whittle.

209. Softball.

Fundamentals and rules.

Limited to 36 students.

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, 1965.

One hour per day, July 28-August 18—½unit.

Mr. Gnup.

210. Basketball.

Fundamentals, basic drills, simple offensive tactics.

Limited to 50 students.

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

One hour per day, July 28-August 18—½ unit.

Mr. Pomfret.

213. Field Hockey.

Fundamentals, basic drills, rules.

One hour per day, July 5-26 inclusive—½ unit.

Miss Strachan.

216. Soccer.

Basic skills, rules, emphasis on playing.

Limited to 44 students.

One hour per day, July 5-26 inclusive—½ unit.

Mr. Johnson.

218. Games, Contests and Relays.

Relay, group and recreational games and activities.

Pre-reading recommended: *Play by Play.*

Textbook: Spicer, *Play by Play*, Ryerson, 1955.

One hour per day, July 28-August 18, inclusive—½ unit.

Mr. Johnson.

219. Volleyball.

Basic skills, rules, team tactics.

Limited to 48 students.

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

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

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

One hour per day, July 28-August 18, inclusive—½ unit.

Mr. Whittle.

230. Swimming.

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

Textbook: *Notes for Instructors,* (Canadian Red Cross Society).
One hour per day, July 28-August 18—½ unit.
Mr. Hindmarch.

240. Dance.

Ballroom: waltz, foxtrot, Latin-American dances.
One hour per day, July 28-August 18—½ unit.
Mr. Vincent.

241. Modern Dance.

Dance techniques, improvisations and elementary dance composition. Survey of the cultural history of the dance.

Prerequisite: P.E. 141.

Pre-reading recommended: D'Houbler, Dance, *A Creative Art Experience.*

Textbook: Valerie Preston, *A Handbook for Modern Educational Dance,* MacDonald & Evans.
One hour per day, July 5-August 18 inclusive—1 unit.
Mrs. Goodwin.

242. Ballroom Dance II.

Standard variations added to dances from course P.E. 240, plus basic figures and techniques of Samba and Argentine Tango.

Prerequisite: Physical Education 240.
One hour per day ,July 5-26 inclusive—½ unit.
Mr. Vincent.

244. National Dance.

A practical study of the basic steps, dances and style characteristics of the folk dance of various countries.

Textbook: Kraus, *Folk Dancing,* Macmillan.
One hour per day, July 28-August 18—½ unit.

250. Track and Field I.

Introduction to track and field. Sprinting, including 100 yards, 220 yards. and 440 yards. Sprint Relay Racing; Jumping Events; Women's Hurdling and Men's High Hurdles. Rules and tactics where applicable.

Pre-reading required: *Rules of the events.*

Pre-reading recommended: *Instruction booklets of the Amateur Athletic Association, England; Athletics for Women,* D. L. Pugh and D. C. V. Watts, Hutchinson's, England.

Textbooks: As above.
One hour per day, July 5-July 26—½ unit.
Mr. Pugh.

251. Track and Field II.

Middle Distance Running, Hurdling (excluding those named in P.E. 250), Throwing events, Pole-vaulting.

Pre-reading recommended: As for P.E. 250.

Textbooks: as for P.E. 250.
One hour per day, July 28-August 18, inclusive—½ unit.
Mr. Pugh.

260. Principles of Physical Education.

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

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

One hour per day—1½ units.

Mr. Orban.

262. Health I.

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

Prerequisite: Second Year Standing or consent of Instructor.

Textbook: Turner, *Personal and Community Health,* Mosby, 11th ed.; Royal Air Force, *Principles of Anatomy and Physiology for Physical Training Instructors,* Royal Air Force.

One hour per day—1½ units.

Mr. Whittle.

310. Advanced Basketball.

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

Prerequisite: Physical Education 210.

Textbooks: Newell and Bennington, *Basketball Methods,* Ronald Press; Frank McGuire, *Offensive and Defensive Basketball,* Prentice-Hall.

One hour per day, July 5-July 26, inclusive—1 unit.

Mr. Pomfret.

312. Advanced Football.

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

Prerequisite: Physical Education 212.

Textbook: Hammer, *Football Coach's Complete Handbook.*

One hour per day, July 5-26 inclusive—1 unit.

Mr. Gnup.

314. Advanced Rugby.

Team tactics, coaching and officiating techniques.

Prerequisite: Physical Education 214.

Textbooks: Higham and Higham, *High Speed Rugby,* Heinemann, 1960; Rugby Union, *The Laws of Rugby Football,* Twickenham, England.

One hour per day, July 28-August 18 inclusive—1 unit.

Mr. Laithwaite.

330. Swimming.

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

Prerequisite: Physical Education 230.

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

One hour per day, July 5-July 26, inclusive—1 unit.

Mr. Hindmarch.

350. Advanced Track and Field.

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

Prerequisite: Physical Education 250 or Physical Education 251.

Pre-reading recommended: Luke, *Coaching High School Track and Field;* Doherty, *Modern Track and Field,* Prentice-Hall.

Textbook: Doherty, *Modern Track and Field*, Prentice-Hall.

One hour per day, July 5-26 inclusive—1 unit.

Mr. Pugh.

360. History of Physical Education and Recreation.

A survey of physical education and recreation from the ancient civilizations, with emphasis placed on present day developments and methods.

Prerequisite: Third Year standing or consent of Instructor.

Textbook: Van Dalen, Mitchell, Bennett, *A World History of Physical Education*, Prentice-Hall, 1953.

One hour per day—1½ units.

Mr. Osborne.

361. Prevention and Care of Injuries.

Prerequisite: Third Year standing or consent of Instructor.

Textbooks: St. John Ambulance Association, *First Aid*, Runge Press, Ottawa; Klafs and Arnheim, Mosby Co. Ltd.

One hour per day with laboratory times to be assigned—1½ units.

Mr. Hindmarch.

460. Organization and Administration of Physical Education.

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

Prerequisite: P.E. 260 or 360, and Fourth Year standing.

Textbook: Voltmer and Esslinger, *The Organization and Administration of Physical Education*, Appleton Century Crofts, 3rd ed.

One hour per day—1½ units.

Mr. Pomfret.

580. Current Problems in Physical Education.

Objectives; programmes; leadership; history and trends; professional status; community organizations and auspices.

Prerequisite: Graduate standing.

One hour per day—1½ units.

Mr. Orban.

PHYSICS

Note: **It is proposed to offer senior courses according to the following schedule: 1966—Physics 300, 400, plus 3 more units in Physics. 1967—Physics 308, 400, plus 3 more units in Physics.**

101. Elementary Physics.

Principles of mechanics, heat, light, sound, electricity, and magnetism.

Students who have not taken Physics 91 in B.C. secondary schools may take Physics 101, but may be required to do additional work. Mathematics 120 or equivalent must precede or be taken concurrently with Physics 101.

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

Pre-reading recommended: Parts I and II of the Textbook *Physics* by Physical Science Study Committee, Copp Clark.

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

Mr. Curzon.

200. Intermediate Physics.

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

Prerequisite: Physics 101; Mathematics 202 or 220 (may be taken concurrently).

Textbook: Feynman, Leighton & Sands, *The Feynman Lectures in Physics,* Vol. I, Addison-Wesley.

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

Mr. Sobrino.

308. Physical Optics.

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

Prerequisite: Physics 200 or equivalent.

Textbook: Jenkins & White, *Fundamentals of Optics,* McGraw-Hill.

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.

Prerequisite: Physics 300 or equivalent.

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

Ten hours lectures a week—3 units.

Mr. Erdman.

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: First Year standing.

Mr. Avakumovic.

301. Comparative Government.

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.

Ten hours lectures a week—3 units.

Mr. Laponce.

308. International Organization Since 1919.

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

Textbook: Goodspeed, *The Function and Nature of International Organization.*

Ten hours lectures a week—3 units.

Mr. Conway.

PSYCHOLOGY

100. Introductory Psychology.

A scientific and practical study of the basic forms of human behaviour including the motivational, sensory, mental, social, modifiable, emotional, adjustive, individual, personal and transitional nature of human activity.

Ten hours lectures a week—3 units.

206. Dynamics of Behavior.

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

Prerequisite: Psychology 100 or equivalent.

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

Ten hours lectures a week—3 units.

Mr. Nuttall, Mr. Sampson.

301. Developmental Psychology.

The psychological development of infants and children from birth to adolescence. Emphasis on intellectual, personality and social development.

Prerequisite: Psychology 100 and 206.

Ten hours lectures a week—3 units.

Miss Potashin.

307. Motivation and Emotion.

A study of principles and theories of motivation and emotion, including physiological and social processes, theoretical and experimental developments and influences on behaviour processes.

Prerequisite: Psychology 100 and 206.

Ten hours lectures a week—3 units.

Miss Arnold.

400. Abnormal Psychology.

Understanding human nature by a study of abnormal behaviour and mental processes.

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

Pre-reading required: Cameron, *The Psychology of Behavior Disorders,* Houghton Mifflin, 1947.

Pre-reading recommended: Selye, *The Stress of Life,* McGraw-Hill, 1956.

Textbook: Scott, Foresman and Co., *Abnormal Psychology and Modern Life.*

Ten hours lectures a week—3 units.

Mr. MacKay.

405. Social Learning.

The major emphasis is on how the principles of classical and instrumental conditioning, cognitive learning and learning by identification are related to changes in the development of human behavior.

Prerequisites: Psychology 100 and 206.

Ten hours lectures a week—3 units.

Mr. Kenny.

409. Cognitive Processes.

A course on the higher mental processes described as problem-solving, concept formation, thinking, reasoning and their relationships to other functional processes.

Prerequisite: Psychology 100 and 206.

Ten hours lectures a week—3 units.

Mr. Knox.

542. Clinical Psychology Seminar.

The application of clinical techniques in selected clinical settings. A study and analysis of current clinical practices and research.

Prerequisite: Graduate enrollment and permission of instructor.

Pre-reading required: Tallent, *Clinical Psychological Consultation*, Englewood Cliffs, N.J. Prentice-Hall, 1963; Abt & Riess, *Progress in Clinical Psychology*, Vol. VI., Grime and Stratton, New York.

Ten hours lectures a week—3 units.

Mr. Caird, Mr. Craig, Mr. DeVries.

RUSSIAN

100. Basic Russian.

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

Limited to 20 students.

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

Ten hours lectures a week—3 units.

Mr. Williams.

200. Second Year Russian.

Limited to 30 students.

Prerequisite: Russian 100 or its equivalent.

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

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

Ten hours lectures a week—3 units.

Mr. Ohanjanian.

Note: Russian 400 will probably be given in 1966.

401. The History of the Russian Language.

Textbooks: Shakhmatov, *Kurs III; Bulakhovskij, Istoricheskij kommentarij k literaturnomu russkomu yazyku;* Durnovo, *Ocherk istorii russkogo yazyka;* Obnorsky, *Immenoe sklonenie.*

Ten hours lectures a week—3 units.

Mr. Schwencke.

SOCIOLOGY

200. Introduction to Sociology.

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

Readings to be assigned.

Ten hours lectures a week—3 units.

Mr. Baum.

315. Social Stratification.

The various dimensions of class in modern society, such as class consciousness, status groups, power, social mobility. The consequences of these.

Ten hours lectures a week—3 units.

Mr. Tausky.

SPANISH

100. First Year Spanish.

Grammar, composition, translation, oral practice.

Textbooks: Armitage and Meiden, *Beginning Spanish, A Cultural Approach*, Houghton Mifflin, 1963; Adrian, *Modern Spanish Prose and Poetry*, Macmillan, 1964.

Ten hours lectures and two hours laboratory a week—3 units.
Mr. Kobberrig, Mr. McDonald.

200. Second Year Spanish.

Grammar, composition, translation, oral practice, readings.

Prerequisite: Spanish 100 or equivalent.

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

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

Ten hours lectures a week—3 units.
Mr. Lopez-Saiz.

THEATRE

300. Theatre Practice.

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

For credit in the Faculties of Arts and Education.

Limited to 20 students. Registration permitting, a small number of recommended non-credit students may be admitted to this course. (See under Department of University Extension.)

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

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

Textbook: Moore, *The Stanislavski Method,* (Compass Books, Viking Press, 1962, Re-issue); Turner, *Voice and Speech in the Theatre,* (Pitman & Sons, 1962).

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

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 limited to 30 students. Registration permitting, a small number of recommended non-credit students may be admitted to this course. (See under Department of University Extension.)

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

Ten hours a week—3 units.
Miss Stevenson.

320. History of Modern Theatre.

A study of the development of Western theatre (England, France, Germany, Russia, U.S.A., etc.) since 1700, with emphasis upon the twentieth century. This course deals with the various aspects of theatre (plays and dramatic theory, acting and directing, scenic design and theatre architecture) and their relations to the main social, philosophical and artistic movements of Modern Europe.

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

Prerequisites: For Theatre majors: Theatre 120. As an elective course: no prerequisites.

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

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

Textbooks: Gassner, Masters of the Drama, (Dover Publications, third revised edition).

Ten hours lectures a week—3 units.

Mr. Strassmann.

ZOOLOGY

105. General Zoology.

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

Limited to 50 students.

Textbook: Hickman, *Integrated Principles of Zoology,* C. V. Mosby Co., 1961, 2nd ed.

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

Mr. Conroy.

202. Vertebrate Zoology.

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

Textbooks: Smith, *Evolution of Chordate Structure,* Holt, Reinhart and Winston, 1960; Hyman, *Comparative Vertebrate Anatomy,* Univ. of Chicago Press.

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

Mr. Fisher.

304. Vertebrate Physiology.

Introductory organ physiology.

Prerequisite: First Year majors or honours programme in Zoology.

Textbooks: Ruch and Fulton, *Medical Physiology and Biophysics,* Saunders; Langley, *Outlines of Physiology,* McGraw-Hill.

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

Mr. Randall.

401. Animal Ecology.

An introduction to the principles of animal ecology.

Prerequisite: Introductory Zoology.

Textbooks: Odum, *Fundamentals of Ecology,* Saunders; Hagen, *Readings in Population and Community Ecology,* Saunders.

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

Mr. Dixon.

SUMMER SESSION REGISTRATION — 1964

Credit Courses

MEN	WOMEN	TOTAL
3202	3018	6220

CORRESPONDENCE CREDIT COURSES

Students are reminded that the following correspondence courses are available: Commerce 151, Economics 306, Education 412, English 200, English 303,

English 392, French 210, History 212, Philosophy 100, Psychology 100, Psychology 301. (Com. 151, Eng. 303 and 392 commence in September and finish the following April.)

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

DEPARTMENT OF UNIVERSITY EXTENSION
SUMMER SCHOOL OF THE ARTS
July 5 to August 20

The twenty-eighth annual Summer School of the Arts will be presented by the University of British Columbia during the seven weeks commencing July 5. Since its inception in 1938, this summer programme has developed into an important influence in the cultural life of Western Canada. Under leading instructors, non-credit courses will be offered in Drawing, Painting, Ceramics and Recorder Flute.

Students interested in attending the Theatre and Opera credit courses as non-credit auditors are referred to Theatre 300, 301 and Music 339, respectively, in the Summer Session section of this calendar. As in past years, the teaching programme will be complemented by a series of Fine Arts lectures with outstanding speakers discussing a wide spectrum of the arts.

SUMMER SCHOOL OF THEATRE
June 29 to August 15

The Summer School of Theatre for 1965 has been cancelled.

Theatre 300 (Theatre Practice: Acting & Speech) will be offered by the Department of Theatre. This course will be limited to 20 students. Registration permitting, a small number of recommended non-credit students may be admitted to the course. Non-credit students must have passed Grade 12 and be 18 years of age or older.

Application for admission of non-credit students must be made to the Theatre Supervisor, Department of Extension, not later than May 15, 1965.

See also Theatre 300 on page 74.

Theatre 301 (Children's Theatre) will be offered by the Faculty of Education and the Department of Theatre. This course will be limited to 30 students. Registration permitting, a small number of non-credit students may be admitted to the course. Non-credit students must have passed Grade 12 and be 18 years of age or older.

Application for admission of non-credit students must be made to the Theatre Supervisor, Department of Extension, not later than May 15, 1965.

See also Theatre 301 on page 74.

SUMMER SCHOOL OF MUSIC

Summer Opera Workshop: Non-credit students are referred to Music 339, page 65, for complete details, since this programme is no longer part of the Summer School of the Arts.

Recorder Workshops: The noted Canadian authority, Mr. Hugh Orr, will direct workshops for classroom teachers and for intermediate and advanced players. These courses are offered in cooperation with the Faculty of Education and the B.C. Recorder Guild.

Classroom Teachers' Workshop—August 2-13.

This course is planned to assist the classroom teacher to use the recorder flute as an effective teaching aid in music classes for Grade IV students and above. Sessions will include practical experience in developing skills in the playing of the instruments, as well as techniques for classroom instruction. Students will require Volumes I and II of *Basic Recorder Technique*, Orr, published by Broadcast Music Incorporated, Toronto. For advice concerning instruments all students are requested to write to Dr. Frank E. Gamble, Faculty of Education, The University of British Columbia.

Place: Room 20, Hut O-16, West Mall.

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

Fee: $12.50 (Auditors, $5.00).

Minimum enrolment for this workshop is 20, with a maximum enrolment of 25. Advance registration is urged.

Intermediate Recorder Workshop—August 2-6.

This course is offered for those players who have a good basic knowledge of the instrument. Students are requested to write to Dr. Frank E. Gamble, Faculty of Education, The University of British Columbia, for further information before registering.

Place: Room 20, Hut O-16, West Mall.

Time: 8:00-10:00 p.m., Monday to Friday.

Fee: $15.00.

Minimum enrolment for this workshop is 12, with a maximum of 15. Early registration is urged.

Master Class in Recorder—August 9-13.

This class is planned for experienced players who wish to utilize their technical skills under professional conditions. All players interested in this course are requested to write to Dr. Frank E. Gamble, Faculty of Education, The University of British Columbia, for further information prior to registering.

Place: Room 20, Hut O-16, West Mall.

Time: 8:00-10:00 p.m., Monday to Friday.

Fee: $17.50.

Minimum enrolment in this class is 12, with a maximum of 15. Early registration is urged.

For advance registration for these recorder workshops and master class only, apply to:

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

SUMMER SCHOOL OF VISUAL ARTS

Pottery for Beginners, July 19-August 20.

Instructor: Miss Hilda Ross. A graduate of the Winnipeg School of Art, the British Columbia College of Art, and a scholarship student at the Chicago Art Institute. Miss Ross has received awards at the Exhibition of British Columbia Potters, The Guild Exhibition, Canadian Ceramics, and she was the recipient of the Gold Medal at the 1962 International Ceramics Exhibition at Prague. For the past three years she has been Staff Ceramicist and Instructor for the Department of University Extension.

This course is designed specifically for the beginner and for those who might be called on to teach pottery in their own community. It will be devoted to the fundamentals of the potter's art, with emphasis on throwing and low-temperature firing of earthenware.

Monday through Friday. Afternoon Class: 2:00-4:30 p.m.
Evening Class: 7:30-10:00 p.m.

Ceramics Studio, Acadia Camp.

Fee: (for each class) $50.00.

Registration is limited to twelve in either class. Due to the anticipated demand for this course, combined enrolment will not be permitted.

Advanced Drawing Workshop, July 12-August 13.

Instructor: Mr. Roy Kiyooka. Mr. Kiyooka's career as a teacher began in 1952 at the Calgary Institute of Technology and Art; then he taught at the Regina

College of Art, the famous University of Saskatchewan Summer School at Emma Lake, and, since 1960, at the Vancouver School of Art. Among his teachers are MacDonald, Kerr, Pinto, Barnet and Newman.

As a creative artist, he ranks among the most exciting and adventurous of Canada's younger painters, with exhibitions to his credit throughout Canada and the United States. His works are hung in galleries from coast to coast in Canada, including the National Gallery, the Norman MacKenzie Art Gallery, Regina, the University of British Columbia, and in the private collection of Samuel Zachs, Joseph Hirshorn, and many others.

The excitement and adventure evident in the recent works of this artist are implicit in his description of this workshop. "The emphasis during this course will be on 'What do you perceive?' not 'What are you imitating or even representing?' The aim is a drawing made with whatever means available, on a flat surface. The drawing itself will be real, 'A New Realism'. The emphasis will be on the discovery of vivid relationships intrinsic to and for the discovery itself. What the hand, in the act of moving over a flat surface, can conjure up, is the challenge."

Place: Room 206, Frederic Lasserre Building.

Time: 9:30-12:30 a.m., Monday to Friday.

Fee: $60.00.

Registration is limited to 20 students.

Previous experience in drawing and/or painting is a prerequisite for this workshop.

Introductory Drawing and Painting Workshop—July 6-August 19.

This non-credit course is open to all University students and others interested in this subject. It will be of particular value to those who wish to acquire an elementary ability in visual presentation, such as students in Architecture, Fine Arts, Geography and Engineering.

The course will include a general survey and exploration of the fundamental principles used in drawing and painting from nature, and will consider the elements of light and shade, and space representation in three-dimensional forms of two-dimensional formats. The student will be introduced to a variety of media and technical methods, and will draw in perspective, stressing light and shadow techniques. Other studies will include planar composition relative to the basic principles of design, employing watercolour, pastel and tempera techniques.

The 18 sessions will be held in the Frederic Lasserre Building, Room 104, on Tuesday and Thursday evenings, 7:00-10:00 p.m., from July 6 to August 19, and on four Saturday afternoons from 1:30-4:30. All field trips will be announced in advance.

Fee:$45.00.

Early registration is urged for this popular course. Application forms are available from: Office of Short Courses and Conferences,
Department of University Extension,
The University of British Columbia,
Vancouver 8, B.C.

FINE ARTS LECTURE SERIES

The classroom and studio activities of the 1965 Summer School of the Arts will be complemented by a series of four Fine Arts Lectures presented in Room 106, Buchanan Building, on Thursday evenings beginning July 8. Authorities drawn from visiting and resident Faculty will discuss a wide spectrum of the arts in these lectures which are open to students and public for a nominal charge.

SUMMER SCHOOL ON PUBLIC AFFAIRS

A three-day seminar on public affairs will be presented during Summer Session this year. In addition, a series of five Tuesday evening public affairs lectures will be open to the public.

A brochure with full details will be available April 12. Copies of this brochure may be obtained by writing to the Director, Summer School on Public Affairs, Department of University Extension, The University of British Columbia, Vancouver 8, B.C. (Telephone 224-1111—local 886).

Seminar on China Today—July 7, 8 & 9

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

The People's Republic of China, which came into existence with the overthrow of the Nationalist Government in 1949, has been a relatively unknown country to the West. This has been due partly to the desire of the communist government of China wishing to isolate itself while it builds a new society, and partly to the unwillingness of many Western countries to accept the legitimacy of the People's Republic. In the sixteen years since the revolution the face of China has altered greatly; her industrial development, her challenge for leadership in the communist bloc, her acquisition of nuclear weapons, and the fact her population comprises almost one-quarter of the world's population, have made her a power that cannot be ignored. The accelerating trade with China by Canada makes this seminar one of great interest and importance to all Canadians.

The history and political development of China, her culture, her place in Asian and World Politics, including membership in the United Nations, the Sino-Soviet dispute, and her trade relations with Canada and the West will be among the topics discussed in the seminar.

Public Affairs Lecture Series

A series of five public affairs lectures designed to provide an opportunity for all interested persons to hear distinguished visitors to the University of British Columbia campus will be held on Tuesday evenings, in Room 106 of the Buchanan Building at 8 p.m. Specific dates and topics will be announced later.

A TRAVEL SEMINAR — Renaissance in Quebec

The Department of University Extension embarks on its first travel-education program the end of May, 1965, when it will conduct a travel seminar to La Belle Province. The choice for this pilot project seems obvious—vast numbers of Canadians, a nation made unique by its two cultures, have never made personal contact with the cultural richness which is their heritage. Quebec, a province rich in history, is today the most urbanized province in Canada. The enormous development after the Second World War, economically and industrially, the vitality and growth in the realm of communications, the arts and education, have been referred to as a "renaissance." In the sixties, growing political unrest between the two solitudes makes it increasingly ncessary to know what is happening in Quebec now, and what may happen tomorrow.

An Orientation Program in late March will include six sessions at U.B.C. Members of the Faculty will talk on "The History of Quebec," "Sociological Aspects" and "Language and Culture." Films will be featured, as well as a long-distance Telephone Conference, when Claude Ryan, publisher of Le Devoir, will talk on current trends in Quebec.

Late in May, the tour will depart from Vancouver by air, arriving in Montreal, where it will be met by a bilingual tour conductor. Ten days will be spent in the Province of Quebec, and the itinerary will include several days in Montreal, Quebec City, Rimouski, the Gaspe Peninsula and Eastern Townships. Arrangements will be made for visits to art centres, theatres, and restaurants for seeing new industries and aspects of French language radio and television

for talks with leading Quebec figures, writers and artists, government officials, trade union leaders and students; and for lectures by members of the faculties of the Universities of Montreal, Laval and McGill. The tour will be accommodated at Universities wherever possible. A detailed brochure is available from the Extension Department.

TEACHER-IN-SERVICE SHORT COURSES

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

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

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

Elementary Arithmetic

Elementary Language Arts

Mathematics

Secondary English

Secondary Sciences (Chemistry, Physics and Junior Secondary—separate courses).

Register with, and seek additional information from the

B.C. Teachers' Federation,
1815 West Seventh Avenue,
Vancouver 9, B.C.

Pre-School Education

The following programme is available for teachers who wish to qualify under the Welfare Institutions Board regulations:

July 4-July 28, 1965	July 29-August 20, 1965
Demonstration Course in Pre-School Education and Education 336 (3 units)	*Education 333 (3 units)*
Hours: 8:15 a.m. to 2:30 p.m.	
8:15—*Lecture-Discussion (Education 336)*	8:15 a.m.—*Lecture-discussion (Education 333)*
10-12:30 p.m. Observation, Seminar discussion, Curriculum Workshop	10-12:30 p.m. Observation, Seminar discussion, Curriculum Workshop
1:30- 2:30 p.m. Instructors available for further work in curriculum and discussion in regard to specific and individual problems.	1:30- 2:30 p.m. Curriculum and individual problems.

Students who have both prerequisites (Psychology of Childhood and a night-school or correspondence course in Methods) may wish to enroll in the first period of the "Demonstration Course in Pre-School Education".

Students who have only Psychology of Childhood may attain combined credits for the Demonstration Course *plus Methods* in Pre-School Education by enrolling for the two periods.

For detailed description of course, refer to page 35 under Education 333 and Education 336.

Before registering with the Summer Session Office students are advised to apply to Mrs. Mary Thomson, Faculty of Education, U.B.C. for current information on courses, and to discuss individual situations.

AN INTENSIVE COURSE IN SPOKEN FRENCH

Mrs. Renee Coope, Mrs. Catherine Rosetti
Department of Romance Studies, U.B.C.
July 5-August 20.

Class Limit, 22 Students.

Advanced registration only. Please make cheques payable to the University of British Columbia and mail to the Extension Department, The University of British Columbia, Vancouver 8, B.C.

After a number of years of experimentation and research the language institute at St. Cloud near Paris has developed a radically new method of rapidly acquiring fluency in foreign languages using the latest audio-visual method developed by linguists for language learning. Part I, the first sixteen lessons of the Premier Degre, Voix et Images de France, enables a student with no previous knowledge or ability to obtain a sound basis for understanding and speaking French fluently. It will be of equal value to those whose previous studies in French have been grammatical rather than oral. Part I is complete in itself though only a limited proficiency will be attained at the end of it. Entry into Part II, lessons seventeen to thirty-two, will be restriced to those who have successfully completed Part I or its equivalent. This course will be of special value to civil servants, airline personnel, teachers, faculty members and others wishing to make themselves bilingual in their field.

Classes will be limited to 22 students and instruction will be five days per week for the period of the Summer Session.

Section I Part I and Part II, lessons 1-32.
Prerequisite: At least one year High School French.
9:00 a.m.-2:00 p.m., with an hour break for lunch.
140 hours of instruction.
Fee: $140.00, includes records and books.
Minimum enrolment: 17 students.

Section II Part I, lessons 1-16, 9:00-11:00 a.m.
70 hours of instruction.
Fee: $70.00, includes records and books.

Section III Part I, lesson 1-16, 12:30-2:30 p.m.
70 hours of instruction.
Fee: $70.00, includes records and books.

Section IV Part II, lessons 17-32.
Prerequisite: Part I or its equivalent.
70 hours of instruction.
Fee: $70.00, includes records and books.

This class will be organized **only** if seventeen or more wish to enrol. Interested persons *must* advise the Extension Department by May 15. Please state your time preference: 9:00-11:00 a.m., or 12:30-2:30 p.m.

ALMA MATER SOCIETY

The University of British Columbia

Third Annual Summer Symposium
July 18, 19, 20, 1965

Please apply at the A.M.S. Office,
Brock Hall by July 15, 1965.