COLLECTIONS

UBC

summer session 1970

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REGULATIONS AFFECTING REGISTRATION IN CREDIT COURSES

1. Last day for registration without late fee, May 1; late fee $20.00.
2. Last day for registration with late fee, June 1.
3. Students enrolled in regular Winter Session 1969–70 may be permitted to register to June 15 without payment of the late registration fee, subject to availability of space in classes.

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

NEW STUDENTS

Obtain from the Office of the Registrar an *Application for Admission* form and registration material and return together with the necessary documents, photographs and fees, *before April 1.*

STUDENTS ENROLLED 1969–70.

Students enrolled in the current Winter Session must register by May 1 to be given any assurance of acceptance to the courses of their choice. Registration closes June 15 for these students.

FORMER STUDENTS

Obtain from the Office of the Registrar registration material and return it to this Office together with payment for fees before May 1. Students permitted to register late will be assessed the late registration fee.

PUBLICATIONS OF THE UNIVERSITY OF BRITISH COLUMBIA

Announcement of The Summer Session

SUPPLEMENT TO CALENDAR 1969–70

Fifty-first Session: JULY 6 to AUGUST 21, 1970

The University of British Columbia

VANCOUVER 8, CANADA

Volume 55

SUMMER SESSION, 1970

DATES

April 1, Wednesday	Students who have not previously attended the University should have made application and submitted all necessary documents by this date.
May 1, Friday	Class lists for courses in which enrolment is limited will be determined on this date; space will be reserved only for students who are registered by this date; no assurance can be given that any registration will be accepted for such courses after this date.
	Last day for registration without late penalty.
	Last day for consideration of applications from *new* students.
June 1, Monday	Last day for registration. (Late fee assessed after May 1).
July 6, 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.
7, Tuesday	*All changes in registration for courses must be reported to the Registrar's Office by this date.*
8, Wednesday	Last date for payment of balance of Summer Session fees.
August 19, Wednesday	Last day of lectures.
20, Thursday **21, Friday**	Final Examinations. There will be three examination periods each day, the third commencing in the late afternoon.

*The last day for registration is June 1. Courses may, in some cases, be changed on July 6 but such changes must be reported by July 7 and students *must* be in attendance on July 7 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 1.

The University will be closed all day each Saturday.

TIME TABLE OF LECTURES, CREDIT COURSES

Classroom assignments for lectures will be posted in the main buildings and on notice boards throughout the campus on the week-end preceding the commencement of the Session.

Monday to Friday Inclusive

Course

8:15 a.m.–10:10 a.m.

Chemistry 103, Lecture
Chemistry 230, Lecture
Chemistry 310/320, Lecture, M.T.W.Th.
Classics 310
Commerce 151, July 29–August 21
Commerce 190, July 6–28
Commerce 331
Commerce 591/592, 9:00 –12 noon M.W.F., May 4–June 24
Commerce 373, 9:15–10:10
Education 200
Education 301–Home Economics and Industrial Education–July 29–August 21
Education 302–Home Economics and Industrial Education–July 6–28
Education 308, Section 1
Education 309, Section A
Education 310, July 6–28
Education 311, July 29–August 21
Education 331, Section 1
Education 332, Section A
Education 333
Education 390, Section 1–Elementary
Education 400, Section 1
Education 404–Geography/Social Studies–8:15–9:10
Education 404–History/Social Studies–9:15–10:10
Education 404–Mathematics–July 6–28
Education 407, Section 1
Education 412
Education 413–Industrial Education–July 6–28
Education 413–Home Economics– July 29–August 21

Course

Education 414, Section 1–Elementary
Education 430, Section 1
Education 436, July 6–28
Education 440, Section 1–Home Economics
Education 470, Section 1
Education 472/473, Section A–Elementary
Education 475/476, Lecture
Education 478
Education 482, 8:15–9:10
Education 491, Section 1
Education 508, Science
Education 519
Education 532, July 6–28, Lecture
Education 549, July 29–August 21
Education 556, July 6–28
Education 557, July 29–August 21
Education 558, July 29–August 21
Education 561, Section 1, Lecture
Education 561, Section 2, Laboratory
Education 564
Education 592, 9:15–10:10
English 100, Section 1
English 200, Section A
English 300
English 303, Section A
English 309, Section 1
English 311, Section A
English 340
English 351
English 420
English 425
English 440
Fine Arts 228, Lecture
Fine Arts Education 303, Lecture
Fine Arts Education 401, Lecture

Course

Fine Arts Education 403, Lecture
Fine Arts Education 413, Lecture
French 110, Section 1
French 202, Section 1
French 302
French 402
French 410
Geography 102, Lecture; Four hours laboratory per week to be arranged
Geography 360, July 6–28
Geography 370, Lecture, July 6–28
Geography 372, Lecture, July 29–August 21
Geography 494
Geology 105, Lecture
German 100
History 135
History 316
History 407
History 424
Latin 120/200/220/301/405 or 521
Mathematics 100, Section A, 7 hours a week
Mathematics 121, Section A, 3 hours a week
Mathematics 200

Course

Mathematics 306
Mathematics 307
Microbiology 200, Lecture
Music Education 307, Section 1
Philosophy 100
Physical Education 201, 9:15–10:10
Physical Education 210, 8:15–9:10
Physical Education 212, 9:15–10:10
Physical Education 240, 8:15–9:10
Physics 316
Political Science 200, July 29–August 21
Political Science 202, July 6–28
Political Science 306, July 29–August 21
Political Science 440, July 6–28
Psychology 100
Psychology 316
Psychology 400
Russian 180, all day
Russian 280, all day
Spanish 100
Spanish 200
Zoology 416, Lecture, M.T.Th.F.

10:25 a.m.–12:20 p.m.

Anthropology 412
Anthropology 430
Asian Studies 215
Biology 101, Lecture
Biology 200, July 6–28
Biology 201, July 29–August 21
Biology 335, Lecture
Botany 209, Lecture, July 6–28
Botany 210, Lecture, July 29–August 21
Classics 331
Commerce 322, July 6–28
Commerce 323, July 29–August 21
Commerce 352, May 18–July 3
Commerce 361, July 6–28
Commerce 362, July 29–August 21
Computer Science 210; three hours tutorial per week to be arranged
Economics 200
Economics 300
Economics 304, July 6–28
Economics 305, July 29–August 21
Economics 308,
Economics 535

Education 308, Section 2
Education 309, Section B
Education 331, Section 2
Education 332, Section B
Education 370, July 6–28
Education 371, July 29–August 21
Education 390, Section 2–Secondary
Education 400, Section 2
Education 403, July 6–28
Education 404–English, July 6–28
Education 405, Section A
Education 407, Section 2

Course

Education 414, Section 2–Secondary
Education 416
Education 419
Education 429, July 29–August 21
Education 430, Section 2
Education 431, Section 1, July 6–28
Education 431, Section 2, July 29–August 21
Education 440, Section 2–Home Economics
Education 460
Education 470, Section 2
Education 472/473, Section B–Elementary
Education 472/474–Secondary
Education 475/476, Laboratory
Education 492
Education 501
Education 508–Social Studies
Education 511
Education 521
Education 528, July 6–28
Education 529, July 29–August 21
Education 531, July 6–28
Education 536
Education 552
Education 561, Section 1, Laboratory
Education 561, Section 2, Lecture
Education 569
Education 574
Education 578, July 29–August 21
English 100, Section 2
English 200, Section B
English 303, Section B
English 309, Section 2
English 311, Section B
English 365
English 389
English 392
English 429
English 530
English 535
Fine Arts Education 101

Course

Fine Arts 228, Laboratory
Fine Arts Education 303, Laboratory
Fine Arts Education 401, Laboratory
Fine Arts Education 403, Laboratory
Fine Arts Education 413, Laboratory
Fine Arts 425
French 110, Section 2
French 120
French 202, Section 2
French 220
French 414
Geography 101, Lecture, Eight hours laboratory per week to be arranged
Geography 212, Lecture, July 6–28
Geography 312, Lecture, July 29–August 21
Geography 350, July 29–August 21
Geography 370, Laboratory, July 6–28, M.T.W.Th.
Geography 372, Laboratory, July 6–28, M.T.W.Th.
Geology 105, Laboratory
German 200
German 350
German 516
History 110
History 310
History 318
History 326
History 426
Home Economics 203, alternate days
Home Economics 205, alternate days
Home Economics 310, T.Th.
Italian 200
Mathematics 202
Mathematics 300
Mathematics 308
Mathematics 530
Microbiology 200, Laboratory
Music 320
Music 326, Section 1
Music Education 201
Music Education 302
Music Education 307, Section 2

Course

Nursing 356
Physical Education 203, 11:25–12:20
Physical Education 209, 11:25–12:20
Physical Education 219, 10:25–11:20
Physical Education 230, Section A, 12:30–1:25
Physical Education 260, 10:25–11:20
Physical Education 365, 11:25–12:20
Physical Education 462, 10:25–11:20

Course

Physics 110, Lecture
Physics 308
Political Science 204
Psychology 200
Sociology 200
Sociology 353
Sociology 463
Theatre 310

1:30 p.m.–3:30 p.m.

Asian Studies 330
Biology 101, Laboratory, 1:30–4:30
Biology 335, Laboratory
Botany 209, Laboratory, July 6–28, M.T.W.Th.
Botany 210, Laboratory, July 29–August 21, M.T.W.Th.
Chemistry 103, Laboratory, 1:30–4:30, M.T.W.Th.
Chemistry 230, Laboratory
Chemistry 310/320, Laboratory, 1:30–5:30, T.Th.
Creative Writing 201
Education 305, Lecture
Education 331, Section 3
Education 334
Education 400, Section 3
Education 404–Commerce–Lecture, July 6–28
Education 404–Home Economics–Lecture, M.W.F.
Discussion, 1:30–2:30, T. OR Th.
Education 437, July 29–August 21
Education 430, Section 3
Education 479
Education 481, July 6–28
Education 483, July 29–August 21
Education 490
Education 491, Section 2
Education 532, Laboratory, July 6–28
Education 533, July 6–28
Education 568, July 29–August 21

Education 576
English 200, Section C
English 303, Section C
English 355
Fine Arts 125
Fine Arts Education 300, Lecture
Fine Arts Education 302, Lecture
Fine Arts Education 402, Lecture
French 306
Geography 212, Laboratory, July 6–28, M.T.W.Th.
Geography 312, Laboratory, July 29–August 21, M.T.W.Th.
Geography 499
German 401
History 429
Home Economics 312, 1:30–5:45, T.Th.
Mathematics 410
Mathematics 412
Music 326, Section 2
Philosophy 301
Physical Education 202, 2:35–3:30
Physical Education 218, 1:30–2:25
Physical Education 244, 2:35–4:30, July 6–28
Physical Education 262, 1:30–2:25
Physical Education 470, Lecture, 1:30–2:25
Laboratory, 2:35–3:30, T.Th.
Physics 110, Laboratory 1:30–4:30, M.T.W.Th.
Physics 318, 1:30–4:30, M.T.W.Th.

Course	*Course*
Political Science 300	Theatre 300
Psychology 301	Zoology 416, Laboratory, M.T.Th.F.
Psychology 546	

3:45 p.m.–5:45 p.m.

Education 305, Laboratory	Fine Arts Education 302, Laboratory
Education 404–Commerce–Laboratory, July 6–28 (Days to be arranged)	Fine Arts Education 402, Laboratory
Fine Arts Education 300, Laboratory	Physical Education 220, 3:45–4:40
	Physical Education 250, 3:45–4:40

NOTES

Examination Schedule

The final examination schedule will be posted around the campus in the early weeks of the Summer Session. Final examinations will be held August 20 and 21 and students are advised not to make travel plans until after August 21.

Regulations Affecting Course Changes

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 1 (June 1 for students who have paid the late registration fee).

Changes in registration, where permitted, must be made on or before the first day of lectures, July 6, and reported to the Registrar's Office not later than July 7. 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 4, 1970, 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.

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 privileges will not be granted students who fail the laboratory work of science or industrial arts courses.

Registration in Courses with a Limited Enrolment

Students registering in these courses are strongly advised to indicate a second choice in the event that a course has reached its capacity.

Teacher Qualification Service

The Teacher Qualification Service, sponsored jointly by the B.C. Teachers' Federation and the B.C. School Trustees' Association as an advisory service to teachers and school boards, evaluates teacher qualifications.

The Service acts only upon application and only after the individual has been granted a British Columbia teaching certificate by the Provincial Department of Education.

Qualifications are evaluated and categories assigned on the basis of complete years of professional preparation; partial years are not evaluated. At present the Service recognizes six categories, each corresponding to the number of years of training acceptable to the Teacher Qualification Board. One of the years must be a professional year.

Broadly speaking, the B.C. Teaching Licence qualifies for T.Q.S. category 1 or 2, the Standard Certificate for category 3 or 4, and the Professional Certificate for category 4, 5 or 6. T.Q.S. category 6 requires a minimum of six years of training and a Master's degree.

The Service at the present time deals only with teachers who are newly certified or who are new to a school district or who are up-grading their certificate. "Request for Evaluation" forms are available from the Teacher Qualification Service Office, 220–1070 West Broadway, Vancouver 9. Forms are also available at the Records Office, Room 103, Education Building.

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RALPH L. RALSTON, B.Ed., M.Ed., Instructor, Templeton Secondary School, Vancouver.
JAMES M. SMITH, B.A.Sc., P.Eng., Instructor.
ROZELL SMITH, Provincial Technical Advisor of Industrial Education, Department of Education.
RICHARD L. SOUTHARD, B.A., M.A., Instructor, Palo Verde High School, Tucson, Arizona.
NORMAN A. TAYLOR, B.Ed., Instructor, Royal Oak Junior Secondary School, Burnaby.
MALCOLM TIDMARSH, Provincial Technical Advisor of Industrial Education, Department of Education.
PETER A. TRANT, B.Ed., Instructor.
EUGENE TURNEY, B.Ed., Instructor, Chilliwack Senior Secondary School, Chilliwack.
DONALD B. WEBB, Instructor, Vancouver School of Art.
GERALD T. WESLOWSKI, B.Ed., Instructor, Kensington Junior Secondary School.

ENGLISH

L.F. ASHLEY, B.Ed., M.Ed., Assistant Professor.
MISS MARGARET BELLMAINE, B.A., M.A., Lecturer.
RICHARD BLAKESLEE, B.A., M.A., Professor, San Fernando State College.
FREDERICK BOWERS, B.A., M.A., Ph.D., Associate Professor.
C.L. COCKERTON, B.A., Lecturer.
THOMAS COLE, B.A., Ed.D., Professor, University of Illinois.
ERROL DURBACH, B.A., M.A., Associate Professor.
MRS. KATHLEEN GRANT, B.A., M.A., Instructor.
RONALD B. HATCH, B.A., M.A., Ph.D., Assistant Professor.
JOHN F. HULCOOP, B.A., Ph.D., Associate Professor.
IAN C. JOHNSTON, B.Sc., B.A., M.A., Lecturer.

ELDRED D. JONES, B.A., M.A., Ph.D., Professor, Fourah Bay College, University of Sierra Leone.
ANTHONY R. KILGALLIN, B.A., M.A., Phil.M., Assistant Professor.
MRS. MARY B. KNECHTEL, B.A., Lecturer.
SEYMOUR LEVITAN, A.B., M.A., Instructor.
ALEC LUCAS, M.A., A.M., Ph.D., Professor, McGill University.
DAVID MACAREE, M.A., Ph.D., Associate Professor.
BRIAN H. MAYNE, B.A., Certificate Ed., M.A., Assistant Professor.
STEPHEN D. OXENDALE, B.A., M.A., Lecturer.
MRS. MARION V. RALSTON, B.Ed., M.Ed., Assistant Professor.
R.G. RANDELL, B.S., Lecturer.
JOHN D. ROSENBERG, B.A., M.A., Ph.D., Professor, Columbia University.
I.S. ROSS, M.A., B.Litt., Ph.D., Associate Professor.
MRS. NORA R. SINCLAIR, B.Ed., M.A., Associate Professor.
JACK F. STEWART, M.A., Ph.D., Assistant Professor.
RONALD P. TANAKA, B.A., M.A., Instructor.
W. MEREDITH THOMPSON, M.A., Mus.B., D.Phil., Professor.
YVES D. TROENDLE, B.A., M.A., Lecturer.
MISS BARBARA R. URSELL, B.A., M.A., Lecturer.
FRANK H. WHITMAN, B.A., M.A., Ph.D., Assistant Professor.
MRS. PATRICIA M. WOLFE, B.A., M.S., M.A., Ph.D., Assistant Professor.
THEODORE F. WRINKLE, B.A., M.A., Lecturer.

FINE ARTS

FRED ANDERSON, B.A., M.F.A., Associate Professor, School of Art, University of Washington, Seattle.
SINCLAIR D. HEALY, B.F.A., M.A., Associate Professor.
ALFRED PINSKY, Professor of Painting, Sir George Williams University, Montreal.
JOACHIM SANDVOSS, Mus. Bac., M.Ed., Ed.D.
IAN THOMAS, B.Ed., M.A., A.T.D., Lecturer.
MISS JEAN M. WEAKLAND, B.S., M.A., M.F.A., Assistant Professor.
LEONARD WOODS, Lecturer in History, Vancouver School of Art.

FRENCH

BERNARD BEUGNOT, L. ès L., D.E.S., Docteur de l'Université de Paris, Professor, University of Montreal.
CLAUDE P. BOUYGUES, L. ès L., D.E.S., C.A.P.E.S., Visiting Assistant Professor.
MRS. ELIZABETH A. GRANNIS, B.A., M.A., Instructor.
FRANK R. HAMLIN, B.A., Ph.D., Associate Professor.
RICHARD G.C. HOLDAWAY, B.A., Ph.D., Assistant Professor.
MISS MARIE–ALICE LANTHIEZ, B.A., M.A., University of California, Los Angeles.
DANIEL M. LAVIGNE, B.A., B.Ed., M.A., Instructor.
EDWARD J. MATTE, B.A., M.A., Ph.D., Assistant Professor.
JOSEPH J. PESSEAT, L. ès L., M.A., Instructor.
FLOYD B. ST. CLAIR, A.B., Ph.D., Assistant Professor.
CLAUDE TREIL, B.A., M.A., Ph.D., Professor, Bishop's University.

GEOGRAPHY

R. JAMES CLAUS, B.A., M.A., Ph.D., Assistant Professor.
SHIN–YU HSU, B.S., M.A., Ph.D., Assistant Professor, University of Georgia.
ARCHIBALD MacPHERSON, M.A., Professor, Simon Fraser University.
ROBERT N. NORTH, B.A., Ph.D., Assistant Professor.
J. LEWIS ROBINSON, B.A., M.A., Ph.D., Professor.
LOUIS TROTIER, L. ès L., Ph.D., Professor, Laval University.

GEOLOGY

JOHN E. CUNNINGHAM, A.B., Ph.D., Western New Mexico University.

GERMAN

MRS. MARIA H. LENOS, B.A., M.A., 2957 Aurora Road, North Vancouver.
JAMES A. McNEELY, B.A., M.A., Ph.D., Associate Professor.
LESLIE L. MILLER, B.A., M.A., Ph.D., Assistant Professor.
ULRICH PROFITLICH, Dr. Phil., Associate Professor.
PETER STENBERG, B.A., M.A., Ph.D., Assistant Professor.

HISTORY

JANOS BAK, M.A., Ph.D., Associate Professor.
WILLSON H. COATES, B.A., M.A., Ph.D., Professor Emeritus, Rochester.
DONALD E. FEHRENBACHER, B.A., A.M., Ph.D., Professor, University of Stanford.
JOSEPH D. FRY, B.A., B.D., Ph.D., Associate Professor, University of Saskatchewan.
MARK NAIDIS, B.A., M.A., Ph.D., Professor, Los Angeles Valley College.
JOHN E. RODES, B.A., M.A., Ph.D., Professor, Occidental College.
MISS PATRICIA ROY, B.A., M.A., Assistant Professor, University of Victoria.
JOHN TAYLOR, B.Sc., Assistant Professor, Carleton University, Ottawa.
LESLIE F. UPTON, B.A., Ph.D., Associate Professor.
EDGAR WICKBERG, B.A., M.A., Ph.D., Professor.

HOME ECONOMICS

MRS. MERNA J. BEENY, B.Sc., M.Sc., 1127 Chamberlain Drive, North Vancouver.
I.D. DESAI, B.Sc., M.Sc., Ph.D., Assistant Professor of Nutrition.
MRS. REJEANNE D. REYBURN, B.Sc., M.S., Instructor.

ITALIAN

MRS. GUISI DE STEFANIS, Dott. Ling. Lett., Instructor.

LATIN (See Classics)

MATHEMATICS

ANDREW ADLER, M.A., Ph.D., Assistant Professor.
DAVID W. BRESSLER, M.A., Ph.D., Assistant Professor.
BOMSHIK CHANG, M.A., Ph.D., Assistant Professor.
SHIU T. CHOI, B.Sc., Ph.D., Assistant Professor.
JENS GAMST, Dr. rer. nat., Assistant Professor.
ELOD MACSKASY, Cand. Sc., Associate Professor.
LAWRENCE A. MYSAK, A.M., Ph.D., Assistant Professor.
STANLEY S. PAGE, B.S., Ph.D., Assistant Professor.
RIMHAK REE, B.A., Ph.D., F.R.S.C., Professor.
DENIS K. SJERVE, B.A., Ph.D., Assistant Professor.

MICROBIOLOGY

D. JOSEPH CLARK, B.Sc., M.S., Ph.D., Assistant Professor.
MISS BARBARA L. ROBINSON, M.D., Assistant Professor.

MUSIC

HARRY ADASKIN, Special Lecturer.
MRS. SANDRA J. DAVIES, B.S., M.S., Assistant Professor.
RALPH E. DE COURSEY, B.A., M.M., Assistant Professor.
PAUL M. DOUGLAS, B.M.E., M.M., Assistant Professor.
JOHN MURRAY, B.A., M.Mus., D.Ed., Assistant Professor.
JOACHIM SANDVOSS, Mus. Bac., M.Ed., Ed.D.
JAMES SCHELL, B.A., B.M., M.M., Assistant Professor.
FRENCH A. TICKNER, B.M., M.M., Associate Professor.
DENNIS F. TUPMAN, B.Ed., Teaching Assistant.

PHILOSOPHY

WARREN J. MULLINS, B.A., M.A., Ph.D., Associate Professor.
RICHARD I. SIKORA, A.B., Ph.D., Assistant Professor.

PHYSICAL EDUCATION & RECREATION

ROBERT D. BELL, B.A.(P.E.), M.A., Ph.D., Assistant Professor, University of Victoria.
KENNETH D. COUTTS, B.A., M.A., Ph.D., Assistant Professor.
EDWIN, H. GAUTSCHI, B.P.E., B.Ed., M.P.E., Assistant Professor.
MRS. BONNIE GORDON, B.A.(P.E.), M.Sc., Assistant Professor.
JOSEPH R. JOHNSON, B.P.E. M.P.E., Assistant Professor.
NESTOR N. KORCHINSKY, B.P.E., M.A., Assistant Professor.
RONALD G. MARTENIUK, B.P.E., M.A., Ed.D., Assistant Professor.
WILLIAM B. McNULTY, B.P.E.
KNUD P. PEDERSEN, Lecturer.
MRS. MARIAN E. PENNEY, B.A., M.A., Associate Professor.
JACK B. POMFRET, B.A., M.S., Associate Professor.
MRS. MARCIA SNIDER, Vancouver, B.C.,
NORMAN R. THOMAS, B.A., M.P.E., Instructor.

H. DOUGLAS WHITTLE, B.P.H.E., M.S., Ph.D., Professor.

PHYSICS

DAVID A. BALZARINI, B.S., Ph.D., Assistant Professor.
PETER W. MARTIN, B.Sc., Ph.D., Associate Professor.
JAMES F. MATHISON, Associate Professor, Physics Department, McGill University.

POLITICAL SCIENCE

E.R. BLACK, B.A., M.A., Ph.D., Associate Professor, Queen's University, Kingston.
CARL STEPHEN LONG, B.A., M.A., Visiting Assistant Professor.
ROBERT PAEHLKE, B.A., M.A.
DONALD V. SMILEY, B.Ed., M.Ed., M.A., Ph.D., Professor.
HENRY STECK, B.A., Ph.D., Associate Professor, State University of New York College at Cortland.

PSYCHOLOGY

KENNETH D. CRAIG, B.A., M.A., Ph.D., Assistant Professor.
WILLIAM G. DAVENPORT, B.Sc., Ph.D., Assistant Professor.
CLAUDE DE MARTINO, B.S., Ph.D., Assistant Professor.
G. JAMES JOHNSON, M.A., Ph.D., Assistant Professor.
ROMUALD LAKOWSKI, M.A., Dip.Ed., Ph.D., Associate Professor.
JUAN PASCUAL–LEONE, B.A., M.D., L.Ps., Ph.D., Associate Professor.

RUSSIAN

JAN J. SOLECKI, B.Com., M.A., Assistant Professor.

SOCIOLOGY

DAVID I. DAVIES, B.Sc., Senior Lecturer, University of Essex, England.
TOYOMASA FUSE, B.A., M.A., Ph.D., Associate Professor, University of Montreal.
JOHN C. LEGGETT, B.A., M.A., Ph.D., Associate Professor, Simon Fraser University.

THEATRE

JOHN BROCKINGTON, B.A., D.F.A., Associate Professor and Head of the Department.
STANLEY WEESE, B.A., M.A., Assistant Professor.

ZOOLOGY

MISS SUSAN M. SMITH, B.Sc., M.Sc., Ph.D., Assistant Professor, Wellesley College.

ADMISSION, REGISTRATION AND ATTENDANCE

CREDIT COURSES

For requirements for admission to the University, information in regard to attendance, and regulations governing courses, see the relevant Faculty or School 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 April 1. School teachers taking courses for credit either toward a university degree or toward teacher certification must present official transcripts of their matriculation standing, of their professional training and of any university work already completed. British Columbia teachers who have not completed their professional training at the University of British Columbia or the University of Victoria or Simon Fraser University must, in addition, request the Registrar, Department of Education, Victoria, B.C., to forward to the Records Office of the Faculty of Education 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 you enrol before the April 1 deadline.

   Students who fail to provide full documentation in support of their applications by May 1 will be refused admission to the Summer Session for the current year.

   A fee of $10.00 is assessed for the evaluation of educational documents not issued by institutions in British Columbia. The fee must be submitted with the application form accompanied by supporting documents. The fee is non-refundable and not applicable to tuition; it is in addition to the registration fee which is the first instalment of the Summer Session fees.

   b. Students who have previously registered in the University:

   Apply by letter stating Session last attended, and programme to which admission is being sought.

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 programme.

b. Each registration must be accompanied by a depoist of $20 (certified cheque). A registrant who notifies the Registrar before July 8 of his intention to cancel his registration will be refunded all but $10 of fees paid. The late registration fee is not refundable.

c. All registrants who have not completed registration cards and submitted them to the Registrar's Office by May 1 will be assessed a late registration fee of $20.00 (which is non-refundable), which must, in addition to the minimum deposit, accompany each late registration. No registration will be accepted after June 1.

d. A student who has established his eligibility for admission and who has registered 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 registered student.

e. Registrants will not be considered as enrolled until fees have been paid in full and registration is subject to cancellation unless payment has been made by July 8.

f. If a student whose registration has been cancelled for non-payment of fees applies for reinstatement and his application is approved, he will be required to pay a reinstatement fee of $25.00 and all other outstanding fees before he is permitted to resume classes.

g. A student in a baccalureate programme who registers for a graduating essay or thesis in a winter session and who is unable to complete the requirements for it, is required to register in the session in which he plans to submit the essay or thesis and pay a fee of $50.00 plus A.M.S. fee if he is on campus or a $25.00 fee if he is off campus. A student will be considered 'on campus' if he is making use of the library facilities and having interviews, on occasion, with his faculty adviser.

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

4. Regulations Governing Credit Courses:

a. The maximum credit for Summer Session work in any one calendar year is 6 units. Students taking a correspondence course concurrently with the maximum 6-unit load must defer the writing of the final examination of the correspondence course until December.

b. Credit will not be given toward the B.A. or B.Sc. degrees for courses in other Faculties or Schools unless special provision has been made. In the Departments of English, Fine Arts, Music, and Theatre some courses are useful for credit only toward the B.Ed. degree.

c. 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.

d. Except for English 100 no course may be repeated more than once.

AUDITORS IN CREDIT COURSES

In some courses where there is space available and student participation is not mandatory, it is possible to accept auditors. An auditor does not participate in seminars, submit essays, etc. or write examinations. Where it is possible to permit registration of an auditor a special auditor's fee is assessed. Application must be made for admission as an auditor with the specific course(s) listed in which auditing is desired.

NON–CREDIT (CONTINUING EDUCATION) COURSES

Registration Procedure

Write to the Department of University Extension stating the course or courses desired. Prospective students will then be mailed application forms which should be returned as soon as possible as the size of classes is limited.

For advance registration, course fee must accompany application form. 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.

EXTENSION CREDIT COURSES

Extension Credit Courses will be held two evenings a week from May–July, 1970. For more details and course descriptions, see page 93 of this calendar.

Students wishing to enrol in these courses must register through the Registrar's Office before May 1.

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, and may, if they so desire, obtain their degree diplomas in the Fall. The Congregation ceremony will be held in May, 1971.

FEES*

(*Subject to change without notice)

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.

The registration fee is $10.00, which is non-refundable, and is the first instalment on tuition. The balance of fees is payable on or before July 8, 1970.

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

Scale of Fees

Includes Summer Session Association Fee

Tuition:	
6 units	$203.00
5½ units	187.00
5 units	170.00
4½ units	153.00
4 units	137.00
3½ units	120.00
3 units	103.00
2½ units	87.00
2 units	71.00
1½ units	53.00
Graduate Student Centre fee	3.00
Late registration fee	20.00
Each course change	5.00

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 17. 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. The late registration fee is not refundable.

Special Fees

Includes the Summer Session Association Fee

For Auditors	3 units	$53.00
	1½ units	$28.00

NOTES–

1. 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.
2. Auditors are subject to the Summer Session Association fee of $3.00.

For theses or graduating essays only $53.00

Students registered for graduating essays only, such as Commerce 490, will pay $50.00 plus the S.S.A. fee of $3.00, unless they were not previously registered for this course, in which case they will pay fees according to the unit value of the course in question.

Supplemental Examination, per paper
1. written at the University $10.00
2. written at an established outside centre $15.00
3. written at a special centre $30.00

Applications for supplemental examinations, accompanied by the necessary fees, MUST be in the hands of the Registrar not later than October 30.

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 unless the $26.00 membership fee was paid in September, 1969 . . . . . $3.00

SCHOLARSHIPS, BURSARIES, LOAN FUNDS

(Open only to students taking regular academic courses)

University Summer Session Bursaries

Thirty 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 Scholarship and Bursary Office, Room 207, Buchanan Building, 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 $150 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 Scholarship and Bursary Office, Room 207, Buchanan Building. 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.

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
1970 Executive Committee

Past President . . . . . John Collins
President . . . . . Theo Meijer
Vice-President . . . . . Kenneth Travis
Treasurer . . . . . James Sullivan
Secretary . . . . . Peter Andres

Convenors:
Athletics and Special Events . . . . . Ralph Sebastian
Social Events . . . . . Kenneth Ryall
Publications . . . . . Robert Hunter
Academic Activities . . . . . Tony Rainbow
Advertising . . . . . Vern Morris
Dance . . . . . Norma Berry

Members at Large . . . . . Alan Berry
Ian Cameron
James Hagen
Heather Hudspeth
Brian Rocksborough-Smith
Russell Selwood

Admittance to all activities sponsored by the Summer Session Association is provided to all members of the Association. Admission to all activities is by S.S.A. Activity Card. Each member is allowed one guest, admitted free, to each activity.

The Summer Session Association of the University of British Columbia is composed of all persons registered at Summer Session. All students pay a fee of $3.00 at the time of registration except those attending non-credit, short-term courses, and Graduate Students, not registered for a Summer Session course, who may purchase activity cards from the S.S.A. office, located in SUB on the main floor.

The Summer Session Association was formed early in the history of the University to care for the extra-curricular, intellectual and social requirements of the Summer Session students. Growth and expansion through the years have made the Association 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 established the S.S.A. Loan Fund in 1947 to provide loans for students proceeding to a degree by Summer Session. This money comes from your S.S.A. fee. Until 1969 there was $37,000 in the fund. Your 1969 executive put another $3,000 into the fund which was part of the excess of the 1969 budget. Thus there is now a total of $40,000. Loans are repayable in full by March 1 next, until which time no interest is charged. Application must be made to the Dean of Inter-Faculty and Student Affairs.

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.

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 1969–70 are required to register them for the Summer Session and obtain appropriate permits.

Faculty, staff and students must register their automobiles, motorcycles and scooters immediately upon arrival on campus. They will register at the Traffic Office, Wesbrook Crescent, and registration must be completed by July 3, 1970.

Day Parking: On **MONDAY through FRIDAY** 7:30 a.m. to 5:00 p.m.

Faculty and Staff:

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:

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	$11.00
Faculty and staff motorcylces or scooters	3.50
Student automobiles, Preferred	7.50
Student automobiles, Non-preferred	2.50
Student motorcycles or scooters	1.25

Visitors' Pay Lots:

First hour	10 cents
Second hour	15 cents
Each additional hour	25 cents up to a maximum of $1.00 per day

Meters: Time and fee as specified on meters.

Night and Week-end Parking:

MONDAY through FRIDAY from 5:00 p.m. to 7:00 a.m. next day AND on **FRIDAY** from 5:00 p.m. to 7:00 **MONDAY**.

Pay parking lots are available for visitors, but drivers may also park free of charge in any designated parking lot, except for the following restricted areas:

a. Lots designated "Faculty and Staff Registered Only Day and Night."
b. Zones designated "No Parking Anytime Commercial Vehicle Loading Zone."
c. The Faculty Club parking lot reserved for members and their guests.
d. The Graduate Centre parking lot reserved for members and their guests.
e. A few individually reserved areas designated "reserved."
f. Pay lots when an attendant is in charge and a parking fee is required.
g. Federal Buildings' parking lots.
h. Lots designated as "No Parking Anytime Except by Special Permit."

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 8:15 to 4:30 o'clock, May 1–August 31, 1970.

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

LIBRARY INSTRUCTION

Library instruction will be given during the first week of Summer Session. Because of the extenisve changes made in the University Library system, it is recommended that both students new to the campus as well as those who have not been enrolled during a recent session attend. An introduction to the Library will be provided along with information on finding books and periodical articles. Times and assembly points will be posted in the Library.

In addition, the Library publishes information pamphlets which may be picked up at various points throughout the Library.

UNIVERSITY HEALTH SERVICE
Wesbrook Building

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

British Columbia Hospital Insurance is available to students whose permanent residence is in B.C., or who have resided in the province for 12 months.

Students from other Canadian provinces will be covered in B.C. for the duration of the Summer Session by their own provincial hospitilization plans provided their hospital premiums (where applicable) have been paid.

Preventive vaccinations and inoculations are given by the Health Service. The Health Service Physicians will be available by appointment for consultations with students on health problems arising during their attendance at summer session.

ON–CAMPUS HOUSING DURING SUMMER SESSION

General

Accommodation (room and board) is available in student residences, for the period July 5–August 21, inclusive, for those attending Summer Session or Short Courses.

Inquiries and Reservations

Single Students

No prior assignment of single students or married students without children is made and reservations are not accepted. Such students will be *assigned accommodation by the*

Residence Clerk on arrival on a first-come, first-served basis. Payment for accommodation should not be made in advance, but to the Residence Clerk on arrival. *The area available is Place Vanier Residences.* The Clerk's Office, located in Gordon Shrum Commons, is open 24 hours a day. Telephone: 224-3723.

Married Students

Students attending the Session unaccompanied by wife/husband will be assigned the same way as single students. The procedure for married students, accompanied by children will be made on the basis of application form submitted to, and assignment made from, the Housing Office. *Payment* for accommodation IS NOT ACCEPTED in advance but *to the Residence Clerk on arrival.*

Applications for accommodation by married students with children are received from February 1 each year. Early application, addressed to The Office of Housing Administration, University of British Columbia, Vancouver 8, B.C., is advisable as they are processed on a first-come, first-served basis. Only properly completed applications are processed.

Notifications of accommodation reserved *are mailed to applicants by June 1. Due to limited facilities we advise against bringing children. No pets are allowed in Residences.*

Children

Children under 18 months are accepted free-of-charge if sharing room with parents and not requiring separate beds. A meal pass is not provided for them.

Cooking in rooms is not permitted.

Students taking a Short-Course

Students attending short courses are generally accommodated at Totem Park Residences on the daily conference rate. No reservation is necessary. Payment is to be made on arrival to Totem Park Office.

Students attending various short courses may find the total daily rate for residence exceeds the rate for the full Summer Session. In such cases a Short Course student should consider himself as a Summer Session single or married person and proceed accordingly, i.e., obtain accommodation at Place Vanier from the Residence Clerk.

Areas Reserved for Summer Session

Place Vanier (formerly Lower Mall) Residences are reserved for Summer Session. There are now 10 houses available for students at Place Vanier, and it is considered that these will provide sufficient accommodation for all.

Rooms Available July 5–August 21 inclusive.

Only room and board arrangements are available.

Students will be accommodated from July 4, 1970 in the evening, and should vacate not later than 1:00 p.m. August 22, 1970.

Because of the limited number of double rooms, families may have to take two single rooms. In such cases the corresponding rate for single rooms must be paid.

Rates for the 48-day period of July 5–August 21, inclusive.

Rates include room and board.

For individual students attending Summer Session:

Single Room	$192.00
Double Room–each person	182.40

For families–adults and children over 18 months:

Single Room–each person	$192.00
Double Room–each person	192.40

For Summer Session students arriving early:

Single Room	$4.00
Double Room–each person	$3.80

*Short Courses–daily rate at Totem Park:

Single Room	$ 11.00
Double Room	10.00

*See note for alternate accommodation at Summer Session rate.

Refunds

There will be no refund for non-occupation of reserved accommodation or for room and board after accommodation has been accepted except in the cases of students withdrawing from University or vacating for medical reasons. Sub-letting is not permitted.

Meals

Meal passes, valid at Place Vanier Dining Hall only, from breakfast July 5 to dinner August 21 inclusive, will be given to resident Summer Session students, and families (including children over 18 months) on arrival by the Residence Clerk.

Passes for meals required prior to breakfast July 5 or after dinner August 21 may be purchased from the Residence Clerk at the daily rate.

Facilities

There are common washrooms on each floor of the Residences. Separation in areas occupied by families is made by designating alternate floors for men and women. Coin-operated washers and dryers and ironing boards are located in each building. Irons are not provided. There are pay telephones on each floor. Limited storage facilities are provided in the area. Rooms are furnished, but residents are asked to bring their own soap and towels. Canteen facilities (toiletries, cigarettes, soft drinks, etc.) are available in the area. Games equipment, T.V., tea kettles for lounges, may be obtained if a Residence Committee responsible for such is elected. The Residence Clerk will issue equipment to the Committee.

These Residences are designed for single students, and there are no playground facilities for children. Cribs are not available. Parents are to assume full responsibility for their children, their safety and for damage caused by them. No cooking is permitted in the Residences, and no pets of any kind are allowed. Non-observance of these points may necessitate immediate withdrawal of a student or family from the Residence.

For further information write to the Office of Housing Administration or call 228-2811.

Car Parking

All cars parked in the University areas must carry a parking permit, obtainable from the University Traffic Patrol and Security Office, Wesbrook Crescent. Resident students must first obtain authorization from the Residence Clerk before applying to the University Traffic Patrol. Trailers of any kind are not permitted on the campus.

Private Accommodation Off-Campus for Married Students

A list of accommodation offered for married people with or without children during the summer or for the duration of the Summer Session is available from the Alma Mater Society Office, Housing Co-ordinator, Student Union Building, The University of British Columbia, Vancouver 8. Telephone: 228-2901. All arrangements must be made directly between the interested parties. The University does not act as agent for either contracting party.

TEACHER CERTIFICATION

All enquiries concerning certification must be directed to the Registrar, Department of Education, Victoria. These regulations reflect certification policy at the time that this Calendar went to print, but subsequent changes may have been made by The Department of Education.

Early in 1968, the Minister of Education released a statement on new teacher certification policy for the province. The following comments, taken from that statement, appeared in the Administrative Circular dated March 29, 1968:

"There will be two types of permanent teaching certificates. These will establish the minimum permanent certificate to be granted and will not attempt to grade within the general classifications or to set upper limits. The first of the two certificates will be a Standard Teaching Certificate, awarded to those who have successfully completed an acceptable three-year programme beyond secondary school graduation and including both academic and professional studies. The second, the Professional Teaching Certificate, will be awarded to all applicants who have successfully completed an acceptable four or five-year programme of professional and academic studies normally culminating in a degree.

An innovation will be the Teaching Licence granted to an applicant who provides evidence of successful completion of an acceptable programme of academic and professional studies but who does not yet qualify for the Standard Certificate. This group will include teachers who at present would receive EB or EC certificates. This licence will be valid for a four-year period only, although it may be renewable at the discretion of the licencing authority upon submission of evidence satisfactory to it."

Teachers possessing a Teaching Licence (or Elementary B or Elementary C certification issued under earlier regulations) should direct inquiries concerning requirements for higher teacher certification to the Registrar, Department of Education. Questions concerning degree requirements, however, must be made of the appropriate Faculty at the University. Attention is drawn to course requirement for the degree programmes as prescribed in the Calendar of the University. Faculty of Education

students should refer to the Records Office, Faculty of Education, University of British Columbia and to materials on teacher certification and training prepared by that Office.

In summary, *providing acceptable professional training is included,* under current regulations teachers generally may qualify for the types of certificates noted below by completing the appropriate specified standing on a degree programme in the Faculty of Education:

Full Second Year . . . . . Teaching Licence
Full Third . . . . . Standard Certificate
Full Fourth Year . . . . . Professional Certificate

Teachers with an *acceptable* year of professional training may proceed to the Bachelor of Arts or other appropriate degree and normally qualify for certification as follows:

Full First Year . . . . . Teaching Licence
Full Second Year . . . . . Standard Certificate
Full Third Year . . . . . Professional Certificate

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 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.

I. SUMMER SESSION TEACHER TRAINING PROGRAMME FOR HOME ECONOMICS GRADUATES.

(Certificated teachers lacking a Bachelor of Home Economics degree and wishing to teach Home Economics, see II below).

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

Persons holding an acceptable Bachelor of Home Economics degree may complete teacher-training for the Professional 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 1970 are expected to complete the second and third summers in 1971 and 1972.

First Year

Home Economics graduates enrolling for the first Summer Session are required to take the following courses:

a. Education 404 – Curriculum & Instruction (Home Economics) 1½ units
b. Education 440 – Special Laboratory Experiences in Home Economics 1½ units
c. Education 413 – Emerging Trends in Secondary Education 1½ units
d. Education 302 – Introduction to Educational Evaluation 1½ units

Second Year

Home Economics graduates who have completed one Summer Session are required to take the following courses:

a. One of Education 400, 430, 470 3 units
b. One of Education 332, 426/7, 412, 416 3 units

Third Year

Home Economics graduates who have completed two Summer Sessions of the required courses should enrol for their third Summer Session in the following courses:

a. Education 301 – Introduction to Educational Psychology 1½ units
b. 4½ units chosen from Education 400, 401, 407, 408, 412, 414, 416, 418, 426,427, 428, 430, 432, 460, 461, 470, 472/474, 481–82, 483, 490, 332. 4½ units

II. CERTIFICATED TEACHERS WISHING TO TEACH HOME ECONOMICS

The following Summer Session courses will be available in 1970 for prospective teachers in Home Economics holding valid B.C. teacher certification (Teaching Licence or Standard Certificate or their equivalents under former regulations):

Home Economics 203 1½ units
Home Economics 205 1½ units
Home Economics 310 1½ units
Home Economics 312 1½ units
Education 404 (Home Economics) 1½ units
Education 440 (Home Economics) 1½ units

It is desirable that a number of courses in Home Economics be completed before undertaking Ed. 404–440. Only in especially considered cases may a teacher enrol for Ed. 404–440 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 valid certification who wish to train to teach Home Economics should start on a concentration in Home Economics–Bachelor of Education

(Secondary Field programme–by enrolling in six units of Home Economics courses listed above.

2. Teachers with valid certification who already have taken some of the Home Economics courses listed toward their concentration in Home Economics, but have not taken Ed. 404, should choose Ed. 404–440 plus three units of Home Economics content not taken previously, plus 1½ units Education elective.
3. Teachers who have completed Ed. 404–440 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 teachers starting on a three-year Summer Session programme may plan their selection of courses, the probable offerings for 1971 are as follows:

Home Economics 201	3 units
Home Economics 360	1½ units
Home Economics 362	1½ units
Home Economics 220	1½ units
Home Economics 420	1½ units
Education 404 (Home Economics)	1½ units
Education 440 (Home Economics)	1½ units

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.

Students are advised to consult the regular Winter Session calendar to ensure that the courses chosen conform to the regulations stated therein.

COURSES OF STUDY

To assist students in planning programmes each course title includes a code letter. This letter indicates the probability of future offerings.

Code

A. Proposed for this summer and next.
B. Proposed for alternate years.
C. Proposed for this summer–future offerings indefinite.

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

Text books are not shown in the calendar. Students may contact the University Book Store before commencement of the Summer Session in order to obtain the names of text books.

ANTHROPOLOGY

412. **(3) Introduction to Anthropological Problems. (C)**
A comparative review of thought, values and institutions, using primarily tribal and folk materials. Some findings and applications of anthropology.
For Fourth Year students who have taken no other course in Anthropology.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

430. **(3) Theory and Programmes of Social Change. (C)**
General theory of cultural evolution and social change. Changes among tribal and folk peoples. Programmes of welfare and development.
Limited to 50 students.
Prerequisite: Anthropology 200.
Pre-reading: Required: Wilbert E. Moore, *Social Change,* Prentice Hall; Clifford Geertz, *Agricultural Involution.* 5 Bobbs-Merrill reprints–Clifford Geertz, *Ritual and Social Change: A Javanese Example.* (A–78); Marion J. Levy, *Contrasting Factors in the Modernization of China and Japan.* (S–169); W.N. Newcomb, *Re-examination of the Causes of Plains Warfare.* (A–172); N. Birnbaun, *Conflicting Interpretations of the Rise of the Capitalism: Marx and Weber.* (S–26); B.F. Hoselitz, *The role of Cities in the Economic Growth of Underdeveloped Countries.* (S–25).
Recommended: Barrington Moore, *Social Origins of Dictatorship and Democracy;* T.B. Bottomore & Maximilien Rubel (Ed.), *Karl Marx: Selected Writings in Sociology and Social Philosophy;* Paul Bohannan and Fred Plog, (Ed.), *Beyond the Frontier.*
Instructor: Mr. Bernier.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

ASIAN STUDIES

215. (3) Civilizations of Southern Asia. (C)

A survey of ancient and modern civilizations in India and other regions of Southern Asia; emphasis on problems of political, economic, and social change in modern India.

Prerequisite: none; open to first-year students by permission of the instructor.

Instructor: Mr. Potter.

Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

330. (3) History of Japanese Civilization. (C)

Japanese political, social, and cultural history from the earliest times to 1868.

Pre-reading: recommended–George B. Sansom, *The Short Cultural History of Japan.*

Instructor: Mr. Howes.

Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

BIOLOGY

101. (3) Principles of Biology. (A)

An introductory course emphasizing principles of wide application to all living organisms, including cell structure and function, the mechanism of inheritance, evolution, and adaptation to environment. A comparative approach to the unity and diversity of organisms will be stressed.

Limited to 48 students.

Prerequisite: recommended–Biology 11 or 91 or equivalent.

Instructor: Mr. Andrews.

Time: Eight hours lectures, fifteen hours laboratory a week – Monday through Friday – Lecture: 10:25 a.m.–12:20 p.m.; Laboratory: 1:30 p.m.–4:30 p.m.

200. (1½) Cell Biology I: Structural Basis. (A)

A study of the structure, at all levels, of the nucleus and cytoplasm of plant and animal cells, with an emphasis on diversity, rather than, as hitherto, on unity. Topics considered will include tissue culture, instruments, ultrastructure, development, nuclear events such as recombination, population studies, and the alternative hypotheses which have been advanced to explain the diversity in structure. Students are normally expected to take Biology 201 (for which Chemistry 230 is a prerequisite) as a companion course.

Prerequisite: Biology 101.

Instructor: Mr. Holm.

Time: Ten hours lectures a week, Monday through Friday, July 6 to 28 – 10:25 a.m.–12:20 p.m.

201. (1½) Cell Biology II: Chemical Basis (A)

An introduction to structural and functional aspects of cell chemistry. Topics to be discussed include biological micro- and macromolecules and their relationships, protein structure and enzyme action, energy transfer, selected metabolic sequences with some references to control mechanisms, and the chemistry of information storage and utilization.

Prerequisite: Biology 101, Biology 200, and concurrent registration in Chemistry 230.
Instructor: Mr. Bohm.
Time: Ten hours lectures a week, Monday through Friday, July 29 to August 21 – 10:25 a.m.–12:20 p.m.

335. (3) Fundamental Genetics. (A)
An introduction to the basic principles of heredity with emphasis on the physical and chemical structure and function of genetic material.
Prerequisite: Biology 101 or its equivalent.
Instructor: Mr. Green.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 10:25 a.m.–12:20 p.m.; Laboratory: 1:30 p.m.–3:30 p.m.

BOTANY

209. (1½) Non-Vascular Plants. (C)
A study of fungi, algae, lichens, and bryophytes, with special reference to their form, function and ecology.
Limited to 20 students.
Prerequisite: some knowledge of general biological principles; say Biology 101, Biology 11 or 12.
Pre-reading: recommended–section on Cryptogamic form and behaviour in any general textbook of Biological Science, e.g., Nason, A. *Modern Biology,* Pt. 5, Pub. J. Wiley (1965).
Instructor: Mrs. Conway.
Time: Ten hours lectures and tutorials and eight hours laboratory a week, Monday through Friday – July 6–28 – Lecture: 10:25 a.m.–12:20 p.m.; Laboratory: 1:30 p.m.–3:30 p.m.–M.T.W.Th.

210. (1½) Vascular Plants. (C)
A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function and ecology.
Limited to 20 students.
Prerequisite: some knowledge of general biological principles; say Biology 101, 11 or 12.
Pre-reading: recommended–sections on vascular plants in any general Biology Textbook.
Instructor: Mr. Lang.
Time: Ten hours lectures and 8 hours tutorial a week, Monday through Friday – July 29–August 21 – Lecture: 10:25 a.m.–12:20 p.m.; Laboratory: 1:30 p.m.–3:30 p.m. – M.T.W.Th.

CHEMISTRY

103. (3) General Chemistry. (A)

A study of the fundamental principles of chemistry including the molecular structures of both inorganic and organic compounds.

Prerequisite: Mathematics 12 or 130 concurrently; Physics 11 or its equivalent is strongly recommended.

Instructors: Mr. Frost and Mr. Herring.

Time: Ten hours lectures and twelve hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 1:30 p.m.–4:30 p.m.–M.T.W.Th.

230. (3) Organic Chemistry (A)

Fundamental principles of modern organic chemistry including a discussion of the main classes of organic compounds.

NOTE: Credit will not be given for both 203 and 230.

Prerequisite: Chemistry 101, 102, 103, 110 or 120.

Instructors: Mr. Money and Mr. Piers.

Time: Ten hours lectures and nine hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 1:30 p.m.–3:30 p.m.

310. (2) Inorganic Chemistry. (C)

A systematic treatment of the chemistry of the elements based on the periodic classification, interpreted in terms of structure, mechanism and theoretical principles.

AND

320. (1) Organic Chemistry Laboratory. (C)

This course involves practical work illustrating the preparation and characteristics of representative inorganic compounds. This course is not available to students who are eligible to take Chemistry 315.

Prerequisite: Chemistry 200, 210 or 220 or 205. Chemistry 310 and 320 must be taken concurrently.

Instructors: Mr. Aubke, Mr. Cullen, Mr. Thompson.

Time: Seven hours lectures, Monday through Thursday inclusive and two laboratory periods of four hours each a week – Lecture: 8:15 a.m.–10:10 a.m.–M.T.W.Th.; Laboratory: 1:30 p.m.–5:30 p.m.–T.Th.

NOTE: The above Chemistry courses marked (A) will be offered in 1971 along with Chemistry 330.

CLASSICAL STUDIES (See Classics)

310. (3) Greek and Roman Literature. (C)

A study, through selected readings in translation, of the range and variety of literary forms invented and developed by the Greeks and Romans from Homer to Apuleius.

Instructor: Mr. Barrett.

Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

331. (3) Ancient History. (A)

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 *The Fall of the Roman Republic;* Livy; Kitto, *The Greeks* (Penguin).

Instructor: Mr. Smart.

Time: Ten hours lectures a week. Monday through Friday – 10:25 a.m.–12:20 p.m.

COMMERCE

Undergraduate Courses

151. (1½) Fundamentals of Accounting. (A)

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

Limited to 50 students.

Students registering for Commerce 151/190 are strongly advised not to attempt any additional course.

Prerequisite: Commerce 190.

Pre-reading: recommended–Black, Champion, Brown, *Accounting in Business Decisions*, Second Edition, Prentice Hall Inc.

Instructor: Mr. Fields.

Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 8:15 a.m.–10:10 a.m.

190. (1½) Fundamentals of Business. (A)

Introduction to the basic concepts and techniques of business functions and organization.

Instructor: Mr. Heywood.

Time: Ten hours lectures a week, Monday through Friday – July 6–July 28 – 8:15 a.m.–10:10 a.m.

322. (1½) Labour Relations. (B)

An examination of the impact of trade unions on the management of industrial and commercial enterprises. This course will develop, for the student of business administration, an understanding of trade unions in Canada, their aims and objectives. Problems of public policy in the regulation of labour-management relations will be examined in detail.

Instructor: To be announced.

Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 10:25 a.m.–12:20 p.m.

331. (3) Commercial Law. (B)

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

Pre-reading: recommended–Smyth & Soberman, *The Law & Business Administration in Canada*, Second Edition, Prentice-Hall, pp. 1–260.

Instructor: To be announced.

Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

362. (1½) Management of Promotion. (C)

An analysis of buyer behaviour; planning, controlling, and co-ordinating of the promotional functions of the firm.

Instructor: Mr. Kelly.

Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 10:25 a.m.–12:20 p.m.

Pre-M.B.A. Courses

323. (1½) Introduction to Administrative Studies. (For Graduate Students only). (A)

A study of complex organizations and administration; administrative control; communications systems and networks; centralization and decentralization; administrative goals and conflict; decision-making; group dynamics.

Limited to 25 students.

Prerequisite: M.B.A. admission.

Instructor: To be announced.

Time: Ten hours lectures a week; Monday through Friday – July 29–August 21 – 10:25 a.m.–12:20 p.m.

352. (3) Managerial Accounting. (For Graduate Students Only). (A)

The use of figure data in making decisions and in appraising actual operating results of business enterprises. The course will include a study of fundamental accounting postulates, as applied in financial accounting, and budgeting.

Limited to 30 students admitted to M.B.A. Programme.

Pre-reading: recommended–McNeill, I.F., *Basic Accounting Procedures*, Holt-Rinehart & Co.

Instructor: To be announced.

Time: Ten hours lectures a week, Monday through Friday – May 18–July 3 – 10:25 a.m.–12:20 p.m.

361. (1½) Merchandising and Distribution. (For Graduate Students only). (A)

A study of the methods used in the marketing of goods and services. Problems in merchandising, selection of channels of distribution, sales promotion, and pricing.

Limited to 25 students.

Prerequisite: M.B.A. admission.

Instructor: Mr. Dolphin.

Time: Ten hours lectures a week, Monday through Friday – July 6–July 28 – 10:25 a.m.–12:20 p.m.

373. **(1½) Business Finance. (For Graduate Students only). (A)**
The major financial decisions that business face; the analytical approaches that are available to assist with these decisions; and the links between these decisions and the financial community.
Limited to 25 students admitted to M.B.A. Programme.
Prerequisite: Basic economics, accounting and statistics, or permission of instructor.
Instructor: Mr. Lusztig.
Time: Five hours lectures a week, Monday through Friday – 9:15 a.m.–10:10 a.m.

Graduate Courses

591. **(1½) Seminar in Business Policy. (A)**
A study of policy-making in business, government, and social fields.

AND

592. **(1½) Seminar in Business Administration. (A)**
An examination of present-day thinking and research in the field of business administration.
Limited to those graduate students who have completed a substantial part of the M.B.A. Programme.
Instructor: Mr. Purdy.
Time: Three hours lectures a day, Monday, Wednesday, Friday – 9:00 a.m.–12:00 noon, May 4–June 24.

671. **(3) Advanced Topics in Finance. (C)**
This seminar is concerned with advanced topics in valuation, capital structure, cost of capital, capital budgeting, working capital management, portfolio selection and financial markets, with particular emphasis on the theoretical foundations. Key concepts and issues will be developed through study of the literature, class discussion and written reports.
Limited to 10 students who are on the M.B.A. Programme.
Prerequisite: Commerce 571, 572, Economics 500 and 550 or equivalent.
Instructor: Mr. Mao and other members of the Faculty of Commerce.
Time: To be arranged by Instructor. May 1–June 5.

COMPUTER SCIENCE

210. **(3) Algorithms and Programming. (C)**
An introduction to the structure and use of digital computers. Binary number systems, machine organization, fundamentals of assembly language programming, complete description of an algebraic programming language. Applications to problems in elementary number theory, sorting, statistics, numerical methods, and simulation.
Prerequisites: Former Mathematics 120, or new Mathematics 120 and 121, or equivalent.
Instructor: Mr. Seeley.
Time: Ten hours lectures and three tutorial hours a week, Monday through Friday – Lecture: 10:25 a.m.–12:20 p.m.; Tutorial: To be arranged.

CREATIVE WRITING

201. (3) Prose Technique. (A)

Designed for beginning writers, including First Year students. Familiar essay, column, character sketch, vignette, short-story and the dramatic skit. Instruction is carried on in the workshops and through individual instruction. Admission to the course is by permission of the instructor. Applicants should send in manuscripts to the Department for evaluation before registering.

Limited to 20 students.

Pre-reading: required–*Contemporary Literature in Translation, Prism International.*

Instructor: Mr. Yates.

Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

ECONOMICS

200. (3) Principles of Economics. (A)

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.

Limited to 70 students.

Prerequisite: First Year Standing or special need.

Pre-reading: required–Samuelson/Scott, *Economics,* Canadian edition, Chapters 1–10.

Instructor: Mr. Corry.

Time: Ten hours lectures a week, Monday through Friday –10:25 a.m.–12:20 p.m.

300. (3) Intermediate Economic Analysis. (A)

Theory of consumer demand; production theory; equilibrium of the firm; study of market structures; monopoly, monopolistic competition and oligopoly. The social accounts, income and employment theory; economic fluctuations; economic growth.

Limited to 60 students.

Prerequisite: Economics 200

Pre-reading: recommended–Samuelson/Scott, *Economics,* Canadian edition, Parts 1–4.

Instructor: Mr. Herberg.

Time: Ten hours lectures a week, Monday through Friday –10:25 a.m.–12:20 p.m.

304. (1½) Introduction to Empirical Economics. (B)

Presentation and interpretation of empirical work and concepts in economics. Intuitive development of probability, random variables, estimates, standard errors, tests of hypotheses.

Limited to 40 students. Second Year Standing or special need.

Prerequisites: (May be taken concurrently): Mathematics 120 (or 100 and 121) and Economics 200.

Instructor: To be announced.

Time: Ten hours lectures and six hours laboratory a week, Monday through Friday – July 6–28 – 10:25 a.m.–12:20 p.m.

305. (1½) Empirical Problems in Economics. (B)

Formulation and investigation of hypotheses in economics; students will be required to undertake applied work.

Limited to 40 students. Second Year Standing or special need.

Prerequisite: Economics 304

Instructor:

Time: Ten lecture hours and six laboratory hours a week, Monday through Friday – July 29–August 21 – 10:25 a.m.–12:20 p.m.

308. (3) Money and Banking. (C)

The role of money and financial institutions in a modern economy; structure of the financial system; credit expansion and the process of monetary control; international financial institutions; foreign exchange rates, international capital flows; monetary theory and policy.

Limited to 60 students Second Year Standing or special need.

Instructor: Mr. Purvis.

Time: Ten lecture hours a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

535. (3) Special Advanced Course. (A)

A seminar specially designed for graduate students taking the M.A. degree without thesis.

Prerequisite: Economics 500 and 501 and approval of the Department.

Instructor:

Time: The equivalent of eight hours of seminars a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

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.

Credit will not be granted for Education courses unless students are registered in the Faculty of Education, hold a Teacher's Certificate or have written permission from the Dean.

305. (3) Art Education. (A)

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.

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

Prerequisite: Education 205 (renamed 323) or equivalent.

Instructor: Mr. Newick.

Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 1:30 p.m.–3:30 p.m.; Laboratory: 3:45 p.m.–5:45 p.m.

308. (3) Physical Education. (A)

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

Limited to 30 students per section.
Prerequisite: Education 209. (Renamed 325) or equivalent
Instructors: Mr. Mitchell, Mr. Watt, Mrs. Williams.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.

309. (3) General Science for Elementary School Teachers. (A)
Limited to 24 students per section.
Instructors: Mr. Brough, Mr. Fletcher, Mrs. Forster, Mr. Gillespie, Mr. Krayenhoff, Mrs. Woodrow.
Time: Ten hours lectures a week, Monday through Friday – Section A – 8:15 a.m.–10:10 a.m.; Section B – 10:25 a.m.–12:20 p.m.

310. (1½) Growth and Development. (A)
Research as it applies to the elementary school child. Not open to students who have taken Education 331 or Education 102.
Instructor: Mr. Dennison.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 8:15 a.m.–10:10 a.m.

311. (1½) The Nature and Measurement of Learning. (A)
A study of learning and the techniques of evaluation as they apply to the elementary school child. Not open to students who have taken Education 331 or Education 102.
Instructor: Mr. Dennison.
Time: Five hours lectures a week, Monday through Friday – July 29–August 21 – 8:15 a.m.–10:10 a.m.

331. (3) Human Development. (A)
Consideration of the interaction of genetic and environmental factors as they influence personality, acquisition of language, motor, social and cognitive learning with implications for the organization, administration, and teaching in schools for young children.
Limited to 40 students per section.
Instructors: Mrs. Bredin, Mrs. Borden, Mrs. Rizer.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.; Section 3: 1:30 p.m.–3:30 p.m.

332. (3) Psychology of Adolescence. (A)
The physiological, psychological, social and educational aspects of adolescence. Review of research.
Limited to 40 students per section.
Instructors: Mr. Allison, Mr. More, Mr. Stein, Mr. Walters.
Time: Ten hours lectures a week, Monday through Friday – Section A: 8:15 a.m.–10:10 a.m.; Section B: 10:25 a.m.–12:20 p.m.

333. (3) Curriculum and Instruction in Education for Young Children. (A)
(Nursery schools and Kindergartens).
Planning and developing and educational programme for young children, consideration being given to learning experiences, resources, materials, teaching, and guidance procedures. Laboratory experiences in the Child Study Centre and observation in field settings are included.
Limited to 30 students.
Pre-reading: recommended–Katherine Read, *The Nursery School.*
Instructor: Miss Harris.
Time: Ten hours lectures and six hours laboratory a week, Monday through Friday – 8:15 a.m.–10:10 a.m. Observation alternates with seminar. Students should not register for any other course in the morning.

334. (3) The Role of the Teacher in Home and Community. (B)
A study of the philosophy, history and problems of the parent-teacher partnership; development of effective co-operation through individual parent-teacher conferences and parent-group discussions; an examination of community services and inter-professional relationships on behalf of children. Field experiences.
Pre-reading: required–Green, Lawrence, *Parents and Teachers,* George Allen and Unwin Ltd., London, England (available at UBC Bookstore). Recommended – Hymes, James, *Effective Home-School Relations,* (available only through UBC Library).
Instructor: Mrs. Thomson.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

370. (1½) Mathematics for Elementary Teachers. (A)
Instructor: Mr. Olley.
Time: Ten hours lectures a week, Monday through Friday, July 6–28 – 10:25 a.m.–12:20 p.m.

371. (1½) Methods of Elementary School Mathematics. (A)
Prerequisite: Education 370.
Instructor: Mr. Olley, Section 1; Mr. Rousseau, Section 2.
Time: Ten hours lectures a week, Monday through Friday, July 29–August 21 – 10:25 a.m.–12:20 p.m.

390. (3) The Library in the School. (A)
The objectives, functions and administration of libraries in elementary and secondary schools.
Limited to 35 students per section.
Instructors: Mrs. Coggin and Miss Curley.
Time: Ten hours lectures a week, Monday through Friday – Section 1 (Elementary) – 8:15 a.m.–10:10 a.m.; Section 2 (Secondary) – 10:25 a.m.–12:20 p.m.

400. (3) Philosophy of Education. (A)
An introductory course in which consideration is given to the philosophical foundations of education and to the practical bearings of theory upon curriculum content and classroom practice in our schools.

Limited to 40 students per section.
Instructors: Mr. Burnett, Mr. Coombs, Miss Cooper.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.; Section 3: 1:30 p.m.–3:30 p.m.

403. **(1½) Mental Retardation. (B)**
Characteristics of mentally retarded children: classification; overview of medical, legal, educational, and social provisions for the mentally retarded.
Pre-reading: recommended–Robinson & Robinson, *The Mentally Retarded,* McGraw Hill, 1965.
Instructor: Mr. Poutt.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 10:25 a.m.–12:20 p.m.

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.
Prerequisite: Completion of one senior course of the major. A second course of the major must be undertaken concurrently.
Be sure to indicate the individual subject on registration cards.

(1½) Commerce (B)
Limited to 30 students.
Prerequisite: Completion of a reasonable proportion of requirements for Commerce major or majors.
Pre-reading: British Columbia Department of Education Curriculum Guides for Commerce Courses. The instructor will assume that students are familiar with the contents.
Instructor: Mrs. Cameron.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – Lecture: 1:30 p.m.–3:30 p.m.; two laboratory sessions a week: 3:45 p.m.–5:45 p.m. Days to be arranged.

(1½) English. (A)
Prerequisite: Three senior courses in English.
Pre-reading: Please write, by May 15th, to Professor F.E. Bertram, for a more detailed description of course.
Instructor: Mr. Bertram.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 10:25 a.m.–12:20 p.m.

(1½) Geography and Social Studies. (A)
Limited to 35 students.
Prerequisite: as shown in course detail above.

Pre-reading: required–Feldman & Seifman, *The Social Studies, Structure, Models and Strategies.*
Instructors: Staff and Special Lecturers.
Time: Five hours lectures and five hours laboratory a week, Monday through Friday – July 6–August 21 – 8:15 a.m.–9:10 a.m.

(1½) History and Social Studies. (A)
Limited to 35 students.
Prerequisite: as shown in course detail above.
Pre-reading: required–Feldman & Seifman, *The Social Studies, Structure, Models and Strategies.*
Instructors: Staff and Special Lecturers.
Time: Five hours lectures and five hours laboratory a week, Monday through Friday – July 6–August 21 – 9:15 a.m.–10:10 a.m.

(1½) Home Economics. (A)
Curriculum and instruction.
Limited to 40 students.
Prerequisite: as shown in course detail above.
Must be taken concurrently with Education 440 for graduates on the Home Economics Emergency Programme.
Instructor: To be announced.
Time: Lectures – Monday, Wednesday, Friday – 1:30 p.m.–3:30 p.m.; Discussion – Tuesday OR Thursday – 1:30 p.m.–2:30 p.m.

(1½) Mathematics. (A)
Prerequisite: as shown in course detail above.
Instructor: Mr. Howitz.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 8:15 a.m.–10:10 a.m.

405. (3) Curriculum and Instruction in the Primary Grades. Advanced. (A)
Limited to 30 students per section.
Prerequisite: Education 303 or 304.
Pre-reading: Recommended–Logan and Logan: *A Dynamic Approach to Language Arts* or Howes and Darrow: *Reading and the Elementary School Child.*
Instructors: Miss Brown and Mrs. Ferguson.
Time: Ten hours lectures a week, Monday through Friday – Section A: 10:25 a.m.–12:20 p.m.

407. (3) Introduction to the Study of Exceptional Children. (A)
A course covering all groups of exceptional children in diagnosis, classification, treatment.
Limited to 40 students per section.
Pre-reading: recommended–L.M. Dunn, *Exceptional Children in the Schools.*
Instructors: Mr. Clarke, Mr. Kendall.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.

412. **(3) Introduction to Adult Education. (A)**
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.*
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

414. **(3) Audio-Visual Education. (A)**
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 30 students per section.
Instructor: Section I–Mr. White; Section II–to be announced.
Time: Ten hours lectures a week and outside laboratory work required, Monday through Friday – Section 1 – Elementary Teachers – 8:15 a.m.–10:10 a.m.; Section 2 – Secondary Teachers – 10:25 a.m.–12:20 p.m.

416. **(3) Speech Education. (A)**
Characteristics and Standards of good speech; self-evaluation; the physiology and mechanics of good voice production; means of preventing voice fatigue; guided practice aimed at increasing ability to speak effectively in a variety of speech situations.
Limited to 30 students.
Instructor: Mrs. Campbell.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

419. **(3) Introduction to Speech Correction. (A)**
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.
Instructor: Miss Washington.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

429. **(1½) Special Education for the Educable Retarded. (B)**
An examination of techniques for identifying and educating mildly retarded (E.M.R.) children.
Prerequisite: Education 403 or consent of Instructor.
Instructor: Mr. Poutt.
Time: Ten hours lectures a week, Monday through Friday, July 29–August 21 – 10:25 a.m.–12:20 p.m.

430. **(3) History of Education (A)**
Development of educational theory and practice from the time of ancient Greece to the present day.
Limited to 40 students per section.
Pre-reading: Recommended–Robert H. Beck, *A Social History of Education*, (Englewood Cliffs, N.J., Prentice-Hall, 1956) paperback.

Instructors: Mr. Dahlie, Mrs. Dienes and Mr. Stevenson.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.; Section 3: 1:30 p.m.–3:30 p.m.

431. (1½) Primary Learning Disabilities. (B)
The identification and assessment of basic motor, perceptual, and language disabilities in children.
Limited to 25 students per section.
Instructor: Mrs. Koopman.
Time: Ten hours lectures a week, Monday through Friday – Section 1: July 6–28 – 10:25 a.m.–12:20 p.m.; Section 2: July 29–August 21 – 10:25 a.m.–12:20 p.m.

436. (1½) Behaviour Disorders in Children. (B)
An introductory course dealing with identification, classification, and aetiology of emotional disturbance and social maladjustment in children.
Limited to 25 students.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 8:15 a.m.–10:10 a.m.

437. (1½) Teaching Maladjusted Children. (B)
An examination of techniques for educating maladjusted children in public school, residential schools, and day hospital programmes.
Limited to 25 students.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 1:30 p.m.–3:30 p.m.

440. (1½ or 3 units, at option of Department). Special Study in a Subject-matter Field. (A)
Topics in a subject field relevant to teaching and not covered in previous undergraduate work. Director's approval required.
(Open only to students admitted with an academic deficiency).
Limited to 15 students per section.
Prerequisite: Must be taken concurrently with Education 404–Home Economics for the Emergency Programme for Home Economics graduates.
Instructor: Mrs. Moon.
Time: Ten hours laboratory a week, Monday through Friday – Section 1 – 8:15 a.m.–10:10 a.m.; Section 2 – 10:25 a.m.–12:20 p.m.

460. (3) An Introduction to Educational Administration. (A)
Historical, social and conceptual views of administration, administrative theory, purposes, functions and tasks.
Instructor: Mr. Wallin.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

470. **(3) Educational Sociology. (A)**
Social organization, culture and communities. The school as a social institution. Social stratification and sub-cultures. Socialization, educability, motivation. Educational opportunity. Roles and status of the teacher. Professional and social policy implications.
Limited to 40 students.
Pre-reading: recommended – Section 1: Bremeld, Theodore, *Cultural Foundations.*
Instructors: Mrs. Burnett, Mr. Jones.
Time: Ten hours lecture per week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.

472/473. **Developmental Reading Elementary.**
Time: Ten hours lectures a week, Monday through Friday – Elementary – Section A: 8:15 a.m.–10:10 a.m.; Section B: 10:25 a.m.–12:20 p.m.

472. **(1½) Developmental Reading, Theoretical, Elementary. (A)**
Psychological, sociological and sensory bases and learning processes of reading. Students registering for Education 472 Elementary must at the same time register for Education 473.
Limited to 35 students per section who are registering at the same time for Education 473.

AND

473. **(1½) Developmental Reading, Practical, Elementary Grades. (A)**
Basic skills, reading in the subject fields, materials, tests, classroom organization, corrective reading in the regular classroom. Students registering for Education 473 must at the same time register for Education 472 Elementary.
Limited to 35 students a section.
Instructors: Mr. Ahrendt, Mr. Covell, Mr. Rogers and Mr. Slade.

472/474. **Developmental Reading Secondary.**
Time: Ten hours lectures a week, Monday through Friday – Secondary – 10:25 a.m.–12:20 p.m.

472. **(1½) Developmental Reading, Theoretical, Secondary. (A)**
Psychological, sociological and sensory bases and learning processes of reading. Students registering for Education 472 Secondary must at the same time register for Education 474.
Limited to 35 students who are registering at the same time for Education 474.

AND

474. **(1½) Developmental Reading, Practical, Secondary Grades. (A)**
Content as for Education 473 except at secondary school and adult levels. Students registering for Education 474 must at the same time register for Education 472 Secondary.
Limited to 35 students.
Instructor: Mr. Summers.

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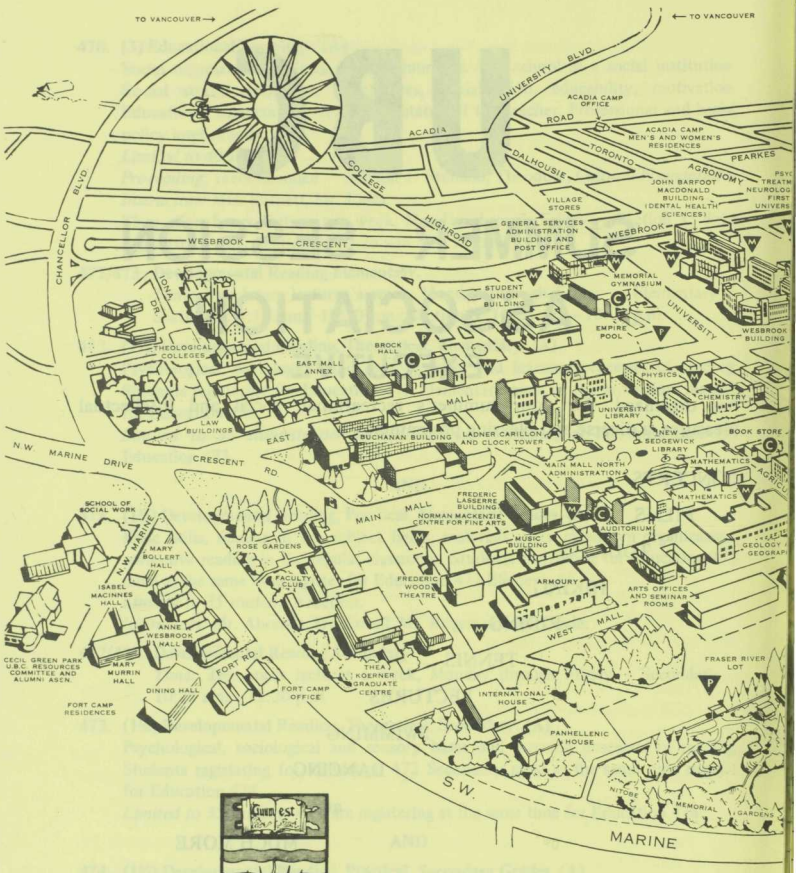

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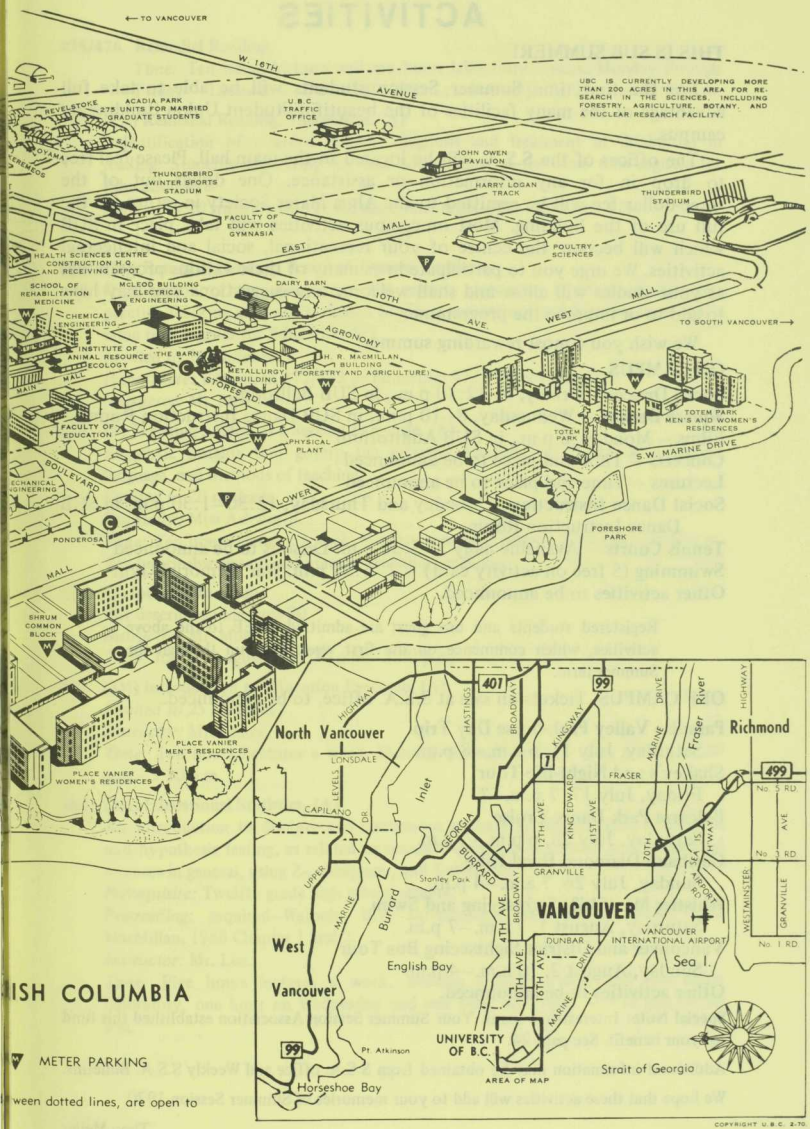

ISH COLUMBIA

METER PARKING

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ACTIVITIES

THIS IS SUB SUMMER!

For the first time Summer Session students will be able to take full advantage of the many facilities of the beautiful Student Union Building on campus.

The offices of the S.S.A. will be located in the main hall. Please feel free to drop in for any information or assistance. One dollar out of the three-dollar fee will be remitted to the Alma Mater Society in return for the full use of the building. Most on-campus activities will take place in SUB which will become the centre of your recreational, social and intellectual activities. We urge you to participate in as many of these various programmes as your studies will allow and shall welcome any suggestions you may have to add to or improve the programme.

We wish you a most rewarding summer!

ON CAMPUS

Social Dances – Friday, 9–12:30 p.m., in SUB Ballroom.
Square Dances – Wednesday, 8–10 p.m., in SUB Dance Instruction Room.
Films – Monday, 8 p.m., in SUB Auditorium
Concerts – Time and place to be announced
Lectures – Time and place to be announced
Social Dance Instruction – Monday and Thursday, 12:30–1:30 p.m. in SUB Dance Instruction Room.
Tennis Courts – Available daily 2–5:30 p.m. Lessons to be announced
Swimming (5 free on activity card) – 2–5:30 p.m. War Memorial Gym
Other activities to be announced.

Registered students and one guest are admitted FREE to the above activities, which commence on the first week and run through the Summer term.

OFF CAMPUS Tickets on sale at S.S.A. office, to be announced.

Paradise Valley Pack-horse Day Trip
Saturday, July 11, 6 a.m.–8 p.m.
Shakey's and Night-life Tour
Friday, July 17, 7 p.m.–?
Belcarra Park Dance Cruise
Saturday, July 25, 6 p.m.–2 a.m.
Garibaldi Diamond Head Hike
Sunday, July 26, 7 a.m.–4 p.m.
Whistler Mt. (Ski?) Sightseeing and Swim
Saturday, August 1, 7 a.m.–7 p.m.
Vancouver and District Sightseeing Bus Tour
Sunday, August 2, 10 a.m.–4 p.m.
Other activities to be announced.

Special Note: Interest-free loans. Your Summer Session Association established this fund for your benefit. See page 24.

Additional information may be obtained from S.S.A. office and Weekly S.S.A. Bulletins.

We hope that these activities will add to your memories of Summer Session 1970.

Theo Meijer
President
University of British Columbia
Summer Session Association

475/476. Remedial Reading.

Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m.

475. (1½) Remedial Reading, Theoretical. (A)

Indentification of retarded readers; diagnosis and treatment of disabilities in reading. Students registering for this course must at the same time register for Education 476.

Limited to 20 students who at the same time register for Education 476.

AND

476. (1½) Remedial Reading, Practical, General Problems.

Organization of the special remedial reading classroom; selection of materials; practice teaching in remedial classes. Students registering for this course must at the same time register for Education 475.

Limited to 20 students.

Prerequisite: Education 472/473 or Education 472/474 or equivalent.

Instructor: Mr. McKenzie.

478. (3) Teaching English as a Second Language. (A)

Linguistic insights that govern the effective teaching of English as a second language, and methods of teaching.

Limited to 20 students.

Instructor: Miss Ashworth.

Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m. Ten hours observation and practice teaching–evenings.

479. (3) Indian Education.

For description see Page 90

Instructor: Mr. More.

Time: July 6–August 21, 1:30 p.m.–3:30 p.m.

481. (1½) Introduction to Education Research. (A)

Limited to 25 students.

Instructor: Mr. Conry.

Time: Ten hours llectures a week, Monday through Friday – July 6–28 – 1:30 p.m.–3:30 p.m.

482. (1½) Educational Statistics. (A)

An introduction to discrete and continuous probability distributions, estimation and hypothesis testing, as related to research questions in education or behavioral sciences in general, using Z-, chisquare-, and T-statistics.

Prerequisite: Twelfth grade high school algebra.

Pre-reading: required–Walpole, R.E. *Introduction to Statistics.* New York: MacMillan, 1968 Chapter 1 and 2.

Instructor: Mr. Lee.

Time: Five hours lectures a week, Monday through Friday and two hours laboratory, one hour on Wednesday and one hour on Friday – 8:15 a.m.–9:10 a.m.

483. (1½) Educational Statistics. (A)
An introduction to statistical theory with special reference to problems in education. Not for persons intending to take graduate courses.
Instructor: Mr. Conry.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 1:30 p.m.–3:30 p.m.

490. (3) The Secondary School Library: Selection of Materials. (A)
Literature for young people; non-book materials; criteria and standards of selection; bibliographical aids; reading interests and reading guidance.
Limited to 35 students.
Instructor: Mr. Albrecht.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

491. (3) The Acquisition and Organization of Library Materials. (A)
The principles and methods of acquiring, classifying, cataloguing and organizing book and non-book materials.
Limited to 25 students per section.
Note: For laboratory work the student will find useful his own copy of Sears List of Subject Headings, 9th edition; Revised Simplified Scheme of Classification for School Libraries; Library Manual for the Public Schools of British Columbia.
Instructors: Mr. Hurt, Mr. Lanning.
Time: Ten hours lectures a week, Monday through Friday – Section 1 – 8:15 a.m.–10:10 a.m.; Section 2 – 1:30 p.m.–3:30 p.m.

492. (3) The School Library: Sources of Information. (A)
A basic course in the use of books and libraries with special emphasis upon the resources and methods for locating educational information.
Limited to 35 students.
Instructor: Mr. Mahar.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

501. (3) The Psychology of Classroom Learning and Teaching. (B)
A study of educational outcomes and the formulation of the appropriate instructional strategies for their achievement.
Prerequisite: One prior course in general or educational psychology.
Instructor: Mr. Foster.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

508. Review of Research in Methods of Teaching Specific School Subjects.
Three units of credit will be given for each course in an individual subject. No more than 6 units may be credited towards a Master's degree. Each course reviews the philosophy, purpose and function of the subject in school. Studies are made of recent research on curriculum organization, on particular methods of teaching, on the use of material aids, on factual comprehension and attitude testing.
Be sure to indicate the individual subject on the course card.

508. (3) Science. (C)
Limited to 20 students. Those registered on a M.Ed., M.A. in Education or Ed.D. Programme to be given preference.
Instructor: Mr. Cannon.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

508. (3) Social Studies. (A)
Limited to 15 students for Education 508 and 580 combined.
Prerequisite: Acceptance as a graduate candidate or permission from the Social Studies Department.
Pre-reading: required–Reading list available from the Chairman, Department of Social Studies.
Instructor: Social Studies staff and special instructors.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m. *Students registering for this course should leave the period 8:15–10:10 a.m. available for special morning field trips.*

511. (3) Seminar in Science Education. (A)
Limited to 20 students.
Prerequisite: Consent of Instructor.
Instructor: Mr. Boldt.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

519. (3) History of Canadian Education. (B)
The historical growth of public education in Canada from the French regime to the present. The development of provincial public school systems and Canadian educational thought and practice.
Instructor: Mr. Johnson.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

521. (3) Advanced Seminar in Philosophy of Education. (C)
Current issues in educational philosophy, implications of current educational theories.
Prerequisite: Education 400 and/or senior level philosophy courses or consent of instructor.
Pre-reading: recommended–Wilson, John, *Language and the Pursuit of Truth,* C.D. Hardie, *Truth and Fallacy in Educational Theory;* I. Scheffler (Ed.), *Philosophy of Education* (2nd Ed.).
Instructors: Mr. Burnett, Mr. Coombs.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

528. (1½) Basic Principles of Measurement. (B)
Covers some classical test theory, introductory factor analysis. reliability, validity, types of derived scores, norms, and interpretation of test data.
No limit, but please adhere to the prerequisites.
Prerequisite: Education 482 or 483 or equivalent.
Pre-reading: required–Review of elementary descriptive statistics, through correlation and regression. Use any standard statistics text.

Instructor: Mr. McKie.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 10:25 a.m.–12:20 p.m.

529. **(1½) Test Construction. (B)**
Covers procedures in the construction of achievement tests and instruments used in the measurement of attitudes, interests, etc.
Prerequisite: Education 528.
Pre-reading: Review of elementary descriptive statistics through correlation and regression, plus the content of Education 528.
Instructor: Mr. McKie.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 10:25 a.m.–12:20 p.m.

531. **(1½) The Interview and Non-standardized Measures in Guidance Services. (A)**
Theoretical assumptions in the use of non-standardized appraisal techniques: interviews, observation techniques, rating scales, cumulative records, autobiographies, and sociometric procedures. Case studies.
Prerequisite: Admission to a Graduate Programme in Counselling.
Pre-reading: required–Axline, Virginia, *Dibs in Search of Self;* Sohl, Jerry, *The Lemon Eaters;* Brown, Claud, *Manchild in the Promised Land.*
Recommended–Dreikurs, Rudolf, *Psychology in the Classroom,* N.Y., Harper & Row, 1968; Dreikurs, Rudolf and Dinkmeyer, Don, *Encouraging Children to Learn,* Englewood, Cliffs, N.J., Prentice-Hall, 1963; Glasser, William, *Schools Without Failure,* N.Y., Harper & Row, 1969; Gronlund, Norman E., *Sociometry in the Classroom,* N.Y., Harper, 1959; Holt, John, *How Children Learn,* N.Y., Pitman, 1967; *How Children Fail,* N.Y., Pitman, 1964; Moreno, Jacob L., *The Sociometry Reader,* Glencoe, Ill., Free Press, 1969; Neill, Alexander, *Summerhill,* N.Y., Hart Publishing Company, 1960.
Instructor: Miss Williamson.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 10:25 a.m.–12:20 p.m.

532. **(1½) Tests in Pupil Personnel Services. (B)**
The use of standardized measures of mental ability, achievement, aptitude, interest and personality.
Pre-reading: required–Thorndike and Hagen, *Measurement and Evaluation in Psychology and Education,* Chapters 1–7. Recommended–Goldman, L., *Using Tests in Counselling.*
Instructor: Mr. Lee.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – July 6–28 – 10:25 a.m.–12:20 p.m.

533. **(1½) Psychology of Handicapped Children. (B)**
Physical, mental social and emotional characteristics of handicapped children (backward, crippled, hard-of-hearing, etc.)
Prerequisite: Education 407 or consent of Instructor.

Pre-reading: recommended–W.M. Cruickshank: *Psychology of Exceptional Children and Youth,* Second Edition, 1963, Prentice-Hall.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 1:30 p.m.–3:30 p.m.

536. (3) Individual Tests. (A)
Administration, interpretation, and values of tests designed to measure individually, intelligence, perception and other cognitive functions.
Limited to 10 students.
Instructor: Mr. Oldridge.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

549. (1½) Problems in Teaching Secondary School Mathematics. (B)
Prerequisite: Education 404 or equivalent.
Instructor: Mr. Howitz.
Time: Ten hours lectures a week, Monday through Friday, July 29–August 21 – 8:15 a.m.–10:10 a.m.

552. (3) Basic Contributions to Administrative Thought. (A)
Limited to 30 students.
Prerequisite: Education 460 or permission of Department.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

556. (1½) Administration of the Educational Programme. (A)
Limited to 40 students.
Note: This course is offered during the first half of the Session and should be followed by either Education 557 or 558.
Prerequisite: Education 460 or permission of Department.
Instructor: Mr. Housego.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 8:15 a.m.–10:10 a.m.

557. (1½) Administration of the Elementary School. (A)
Limited to 20 students.
Note: This course is offered during the second half of the Session and should follow Education 556.
Prerequisite: Education 460 or permission of Department.
Instructor: Mr. Housego.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 8:15 a.m.–10:10 a.m.

558. (1½) Administration of the Secondary School. (A)
Limited to 25 students.
Note: This course is offered during the second half of the Session. It should follow Education 556.

Prerequisite: Education 460 or permission of Department.
Instructor: Mr. McDonald.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 8:15 a.m.–10:10 a.m.

561. (3) Laboratory Practicum–Counselling. (A)
For departments offering graduate work in Education.
Limited to 15 students per section.
Students should not take another course as the laboratory requirements are extensive.
Prerequisite: Education 578 or consent of instructor.
Pre-reading: required–Dunlop and Hintergardt, *The Counsellor's Week.* Typescripts of two counselling sessions plus calendar information for educational and vocational planning in B.C.
Instructors: Mrs. Lamb, Miss Nevison.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Section 1: Lecture – 8:15 a.m.–10:10 a.m.; Laboratory – 10:25 a.m.–12:20 p.m.; Section 2: Lecture – 10:25 a.m.–12:20 p.m.; Laboratory – 8:15 a.m.–10:10 a.m.

564. (3) Research Problems in Curriculum Organization. (C)
Theories of curriculum development in relation to specification of purposes, selection of learning opportunities, organization and evaluation.
Pre-reading: required–R. Tyler, *Principles of Curriculum and Instruction.* Recommended–Adler, *How to Read a Book.*
Instructor: Mrs. Tyler.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

568. (1½) Special Education of the Orthopaedically and Neurologically Handicapped. (C)
For specialists in the education of the crippled, hospitalized, spastic, etc. Recent research in methods of instruction.
Prerequisite: Education 407 or consent of instructor.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 1:30 p.m.–3:30 p.m.

569. (3) The Regional, Junior or Community College. (C)
History and philosophy of the junior college. Studies of the theoretical bases for its establishment. Organization, finance, personnel and curriculum. Field trip will be arranged.
Limited to 40 students–those in or, planning a future in, the Regional College.
Pre-reading: Recommended–one of Thornton, J.W., *The Community Junior College, Medsker, Leland;* Gleazer, E., *This is the Community College.*
Instructor: Mr. Smith.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

574. (3) Supervision of Reading. (C)
Curriculum analysis and planning. Implications for the administrator, the consultant and supervisor of reading.
Limited to 12 students.
Prerequisite: Consent of instructor and a course in Developmental Reading.
Pre-reading: required–A review of any standard textbook in Developmental Reading.
Instructor: Miss Catterson.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

576. (3) Advanced Seminar in the Supervision of Instruction. (B)
For Superintendents, Principals, Directors of Education and other Supervisory Personnel desiring advanced study in this area.
Limited to 30 students.
Prerequisite: Education 460 or permission of Department.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

578. (1½) Counselling Theory and Procedures I. (A)
Theories and procedures for counselling all individuals in their development decisions and tasks; ethical and legal implications; the counsellor's consultant role.
Prerequisite: Education 531.
Pre-reading: recommended–Blocher D. *Developmental Counselling.* Carkbuff and Berenson, *Beyond Counselling and Therapy.*
Instructor: Mr. Banmen.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 10:25 a.m.–12:20 p.m.

592. (1½) Design and Analysis in Educational Research I. (B)
Estimation and hypothesis testing of parameters involved in various experimental research questions, using t-, chisquare-, and F-statistics under the linear univariate analysis of variance and covariance models.
Prerequisite: Education 482 or consent of instructor.
Pre-reading: required–Myers, J.L., *Fundamentals of Experimental Design,* Boston: Allyn and Bacon, 1967, Chapter 1 and 2.
Instructor: Mr. Lee.
Time: Five hours lectures a week, Monday through Friday – 9:15 a.m.–10:10 a.m. Two laboratory hours a week, Tuesday *and* Thursday–To be arranged.

INDUSTRIAL EDUCATION

230. (3) Electricity in Industrial Education I. (C)
D.C. fundamentals and circuits; D.C. motors and generators; signal circuits; electro-chemical devices; D.C. measurement; residential wiring circuits.
Limited to 18 students.
Instructor: Mr. Benzer.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 1:00 p.m.–5:00 p.m. Division of Industrial Education.

354. (1½) Oxy-Acetylene and Arc Welding. (A)

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

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

Limited to 15 students per section.

Prerequisite: Education 351.

Instructor: Mr. Fritz.

Time: Four hours lectures and six hours laboratory per section a week, Monday through Friday – Section 1: 1:00–5:00 p.m., July 6–28; Section 2: 8:00–12:00 noon, July 29–August 21. Division of Industrial Education.

355. (3) Electricity in Industrial Education II. (B)

Single and polyphase circuit analysis; alternating current machinery and controls; generation and distribution of electrical energy.

Limited to 18 students.

Prerequisite: Education 230.

Instructor: Mr. Ralston.

Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 8:00 a.m.–12:00 noon. Division of Industrial Education.

356. (3) Electronics in Industrial Education I. (A)

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

Limited to 18 students.

Prerequisite: Education 230.

Instructor: Mr. Berkey.

Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 1:00 p.m.–5:00 p.m. Division of Industrial Education.

357. (1½) Industrial Coatings. (A)

Theory and practice of applying industrial finishing materials; manual and mechanical application to wood, metal and synthetic surfaces.

Limited to 18 students per section.

Prerequisite: Education 350, 351.

Instructor: Mr. Taylor.

Time: Five hours lectures and five hours laboratory, per section, a week, Monday through Friday – Section 1: 8:00 a.m.–10:00 a.m.; Section 2: 10:00 a.m.–12:00 noon. Division of Industrial Education.

358. (3) Electronics in Industrial Education II. (B)

Data generation, transmission, and receiving systems; principles of HF, VHF, UHF, and microwave communication systems. R.F. measurements.

Limited to 18 students.

Prerequisite: Education 356 or permission of Instructor.

Instructor: Mr. Smith.

Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 8:00 a.m.–12:00 noon. Division of Industrial Education.

359. (3) Millwork Theory and Practice. (B)
Furniture and fixture design; layout and production; custom and mass production methods; prefabrication techniques.
Limited to 18 students.
Prerequisite: Education 350.
Instructor: Mr. Weslowski.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 8:00 a.m.–12:00 noon. Division of Industrial Education.

360. (3) Power Mechanics Theory and Practice. (C)
Heat engines–internal and external combustion types; fuels; mechanical and hydraulic power transmission; power control.
Limited to 18 students.
Instructor: Mr. Southard.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 1:00 p.m.–5:00 p.m. Division of Industrial Education.

361. (1½) Measurement Theory and Practice. (A)
Principles and practices of electrical measurements; design and construction of measurement devices.
Limited to 18 students.
Prerequisite: Education 230.
Instructor: Mr. Graham.
Time: Five hours lectures and five hours laboratory a week, Monday through Friday – July 29–August 21 – 1:00 p.m.–5:00 p.m. Division of Industrial Education.

450. (3) Technology of Woodworking II. (A)
Modern methods and design in cabinet-making, veneering; wood-finishing; care and maintenance of woodworking machinery.
Limited to 18 students per section.
Prerequisite: Education 350.
Instructors: Mr. Atkins, Mr. Cockroft.
Time: Twenty hours laboratory a week, Monday through Friday – 1:00 p.m.–5:00 p.m. – both sections. Division of Industrial Education.

451. (3) Technology of Metalwork II. (A)
Common non-ferous metals and their alloys; metallurgy; benchwork; grinding; drill press; lathework; shaper; milling machine; forging; heat treatment; simple foundry practice; tool and machine maintenance; metal finishes.
Limited to 18 students per section.
Prerequisite: Education 351.
Instructors: Mr. Beril, Mr. Johnstone.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Section 1: 8:00 a.m.–12:00 noon; Section 2: 1:00 p.m.–5:00 p.m. Division of Industrial Education.

452. (3) Technology of Building Construction I. (B)
Design and construction of single unit residential buildings; custom and prefabrication methods; western platform frame and post and beam construction.
Limited to 18 students.
Prerequisite: Education 350.
Instructor: Mr. Derkson.
Time: Five hours lectures and fifteen hours laboratory a week, Monday through Friday – 1:00 p.m.–5:00 p.m. Division of Industrial Education.

453. (3) Automotive Theory and Practice I. (A)
General construction of power plant, auxiliary systems, fuels, carburetion, lubrication, cooling systems, clutch, gear box, rear axles, drive shafts, universal joints, front suspension and steering gears, brakes.
Limited to 18 students.
Prerequisite: Education 351, 360.
Instructor: Mr. Trant.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 8:00 a.m.–12:00 noon. Division of Industrial Education.

454. (3) Pattern-Making and Foundry Practice. (B)
Influence of foundry techniques and metallurgy on design; practical application of various types of patterns; core box making; green sand moulding; coremakin; gating; gractice; melting and pouring brass, iron, and aluminum alloys.
Limited to 18 students.
Prerequisite: Education 351.
Instructor: Mr. Catherall.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 1:00 p.m.–5:00 p.m. Vancouver Technical School.

458a (1½) Problems in Graphic Representation. (A)
Specific drafting problems associated with construction: millwork and furniture drawings, small boat design; national and local building codes; descriptive geometry.
Limited to 18 students per section.
Prerequisite: Education 252.
Instructor: Mr. Tidmarsh.
Time: Five hours lectures and five hours laboratory a week, Monday through Friday – Section 1: 8:00 a.m.–10:00 a.m.; Section 2: 10:00 a.m.–12:00 noon. Division of Industrial Education.

458b (1½) Problems in Graphic Representation. (A)
Specific drafting problems associated with Metals-mechanics: surface development: gearing; descriptive geometry.
Limited to 18 students per section.
Prerequisite: Education 252.
Instructor: Mr. Turney.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Section 1: 8:00 a.m.–12:00 noon, July 6–28; Section 2: 1:00 p.m.–5:00 p.m., July 29–August 21. Division of Industrial Education.

458c (1½) Problems in Graphic Representation. (A)
Specific drafting problems associated with Electricity-electronics: layout and representation of problems in electrical and electronic design.
Limited to 18 students.
Prerequisite: Education 252.
Instructor: Mr. Graham.
Time: Five hours lectures and five hours laboratory a week, Monday through Friday – 1:00 p.m.–5:00 p.m., July 6–28; Division of Industrial Education.

459. (3) Materials Technology in Industrial Education. (B)
Wood and materials directly derived from wood; metals and alloys; synthetics; adhesives, physical testing of materials.
Limited to 18 students.
Instructor: Mr. Irvine.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – 1:00 p.m.–5:00 p.m. Division of Industrial Education.

463. (3) Technology of Synthetic Materials. (B)
Principles and practices of synthetic materials layup; forming and extrusion; design and production of moulds and plugs; die casting.
Limited to 36 students.
Prerequisite: Education 350 and 351.
Instructors: Mr. Dennis and Mr. Webb.
Time: Ten hours lectures a week, Monday through Friday – 8:00 a.m.–12:00 noon. Division of Industrial Education.

465. (3) Technical Problem. (B)
This course gives the student the opportunity to conduct directed study in an area within his technical field of specialization. The study will culminate in a written paper. (This section will be devoted to directed studies in materials technology).
Limited to 18 students per section.
Prerequisite: Education 459 or permission of instructor.
Instructors: Mr. Lee, Mr. Smith.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Section 1: 8:00 a.m.–12:00 noon; Section 2: 1:00 p.m.–5:00 p.m. Division of Industrial Education.

ENGLISH

100. (3) Literature and Composition. (A)
A study of the principles of composition and of some twentieth-century examples of drama, short story, poetry and novel. Essays will be required.
Limited to 18 students per section.
Pre-reading: required–D.H. Lawrence, *The Rainbow;* William Faulkner, *Absalom, Absolom.* On the second day of classes this pre-reading will be tested.
Instructors: Mr. Levitan, Mr. Macaree.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.

200. (3) Literature and Composition. (A)

A study of representative works of English literature.

Limited to 35 students per section.

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

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 Session term and covering the following: Chaucer, *Wife of Bath's Tale*; Shakespeare, *Hamlet;* Milton, *Paradise Lost,* Bks. I, II, IV; Dickens, *Great Expectations* & *Bleak House.*

Instructors: Miss Bellmaine, Mr. Cockerton, Mrs. Grant, Mr. Johnston, Mr. Oxendale.

Time: Ten hours lectures a week, Monday through Friday – Section A: 8:15 a.m.–10:10 a.m.; Section B: 10:25 a.m.–12:20 p.m.; Section C: 1:30 p.m.–3:30 p.m.

300. (3) Seminar for Majors. (A)

Exercises in practical criticism. A small number of texts will be examined closely in a seminar situation.

Limited to 20 students.

Pre-reading: required–H. Green, *Living;* Lawrence, *The Rainbow;* Woolf, *To the Lighthouse;* Osborne, *Look Back in Anger;* Pinter, *The Homecoming;* Joyce, *Dubliners;* Pope, *Epistle to Arbuthnot* Gardner, ed. *Metaphysical Poets;* A. Alvarez, ed. *The New Poetry.*

Recommended–H. Coombes, *Literature and Criticism* (Penguin); H. Gardner, *The Business of Criticism* (Oxford); I.A. Richards, *Practical Criticism* (Harvest).

Instructor: Mr. Stewart.

Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

303. (3) English Composition. (A)

A study of the principles and practice of good writing.

For credit only in the Faculty of Education.

Limited to 15 students per section.

Instructors: Mrs. Knechtel, Mrs. Sinclair, Mr. Troendle, Miss Ursell, Mr. Whitman, Mr. Wrinkle.

Time: Ten hours lectures a week, Monday through Friday – Section A: 8:15 a.m.–10:10 a.m.; Section B: 10:25 a.m.–12:20 p.m.; Section C: 1:30 p.m.–3:30 p.m.

Individual instructors will choose their own textbook.

309. (3) Modern English and Its Background. (A)

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

Limited to 35 students per section.

Pre-reading: Required–Section 1 – Langacker, R.W., *Language and Its Structure,* Marcourt Moore (paperback), Chapters 1–3; Langendoen, D.T., *The Study of Syntax* (paperback), Chapters 1–3.

Recommended–Section 1 – Langacker, R.W., *Language and Its Structure.*

Required–Section 2 – Curme, G.O., *English Grammar* (paperback).
Recommended–Section 2 – Langacker, R.W., *Language and Its Structure,* Chapters 1, 2, 4.
Instructor: Mr. Bowers and Mr. R.P. Tanaka.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.

311. (3) Children's Literature. (A)
A survey of children's literature from early sources to recent books. A historical approach to the appraisal of books and authors for children.
For credit only in the Faculty of Education.
Limited to 35 students per section.
Pre-reading: Required–Carroll, *Alice in Wonderland;* David, *Twelve Dancing Princesses;* Defoe, *Robinson Crusoe;* K. Grahame, *Wind in the Willows;* Homer, *Odyssey;* L'Engle, *Wrinkle in Time;* L.M. Montgomery, *Anne of Green Gables;* Twaine, *Tom Sawyer;* E.B. White, *Charlotte's Web;* Egoff, *Republic of Childhood* (Canadiana); E. Hamilton, *Mythology;* Hunt, I. *Up a Road Slowly.* In addition, at least one aspect of literature for children (e.g. one type of story-adventure, realistic fiction, historical fiction, etc.) should be explored. Students are strongly advised to acquaint themselves with reading materials for children in general–not specifically for primary or intermediate or secondary. Lists of further resources may be obtained from Prof. L.F. Ashley, Faculty of Education, U.B.C.
Recommended–Egoff et al, *Only Connect: Readings on Children's Literature.*
Instructors: Mr. Ashley, Mr. Blakeslee, Mr. Cole, Mrs. Ralston.
Time: Ten hour lectures a week, Monday through Friday. Section A: 8:15 a.m.–10:10 a.m.; Section B: 10:25 a.m.–12:20 p.m.

340. (3) The English Novel. (A)
A critical introduction to the major English novelists of the eighteenth, nineteenth and early twentieth centuries. The development of the novel will be discussed mainly through a detailed study of twenty novels.
Limited to 35 students.
Pre-reading: An examination on the pre-reading will be given at the end of the first week: DeFoe, *Moll Flanders;* Richardson, *Clarissa;* Fielding, *Tom Jones;* Sterne, *Tristam Shandy;* Smollett, *Humphry Clinker;* Scott, *Waverley;* Austen, *Emma;* Peacock, *Nightmare Abbey.*
Instructor: Mr. Hatch.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

351. (3) History of the English Language. (B)
Development of the English language from the West Germanic to the present period in terms of its phonology, morphology, syntax and vocabulary.
Limited to 35 students.
Prerequisite: English 200.
Pre-reading: Required–Langacker, *Language and its Structure,* Parts I and II.
Instructor: Mrs. Wolfe.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

355. (3) Chaucer. (C)

A detailed study of Chaucer's major works and the reading of some writings of his contemporaries.

Limited to 35 students.

Pre-reading: Recommended–John Gower, tr. T. Tiller, *Confessio Amantis* (Penguin), *Sir Gawain and the Green Knight* tr. J.L. Rosenberg (Rinehart), Wm. Langland, tr. N. Coghill, *Piers Plowman* (Phoenix House)

Instructor: Mr. Thompson.

Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

365. (3) Shakespeare. (A)

Detailed study in class of eight plays: *Richard III, As You Like It, All's Well that Ends Well, Julius Caesar, Othello, Macbeth, Coriolanus* and *The Tempest.* Four other plays comprise the outside reading for this course: *The Taming of the Shrew, Richard II, Two Gentlemen of Verona* and *Timon of Athens.* All these plays will be fitted within the framework of a general study of the evolution of Shakespeare's art.

Limited to 35 students.

Pre-reading: Students should have a copy of the complete works in any standard edition; they should read as many plays as possible before lectures begin. For class use it is suggested that students obtain individual copies of the plays in any popular series, e.g. *Signet Classic Shakespeare.*

Instructor: Mr. Jones.

Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

389. (3) Currents of Thought in Eighteenth-Century Literature. (C)

A close reading of works by Swift, Pope, Johnson and Sterne in conjunction with a study of the aspect of the European Enlightenment.

Limited to 35 students.

Instructor: Mr. Ross.

Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

392. (3) Victorian Poetry. (A)

A study of Tennyson, Browning and Arnold, together with some works by Clough, Meredith and The Pre-Raphaelite Poets. A detailed reading list available from the English Department office.

N.B. An examination on the pre-reading required will be given at the end of the first week of lectures.

Limited to 35 students.

Pre-reading: Required–all the poems by Tennyson in Houghton and Stange, *Victorian Poetry and Poetics; Idylls of the King,* Bantam Paperback; Thomas Carlyle's essay, *"Characteristics"* (available in the *Norton Anthology*); W.E. Houghton, *The Victorian Frame of Mind* (a Yale paperback); Dickens, *Hard Times.*

Instructor: Mr. Hulcoop.

Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

420. (3) The Early Modern Period. (B)

Major trends in English literature between 1870–1918: the course will also be concerned with the ideas and social forces which are reflected in the literature of this transitional period and which underlie significant and conflicting aspects of modern thought. The central figures in the course are Yeats, Hardy, Conrad, Hopkins and Shaw. If possible the course will be organized as a seminar discussion.

Limited to 35 students.

Pre-reading: Required–Butler, *Way of all Flesh* (Penguin); Moore, *Esther Waters* (Riverside); ed. Beckson, *Aesthetes and Decadents* (Vintage); Yeats, *Selected Poems* (Macmillan).

Instructor: Mr. Mayne.

Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

425. (3) British Drama, 1880 to the Present. (B)

A study of the movements and major dramatists in the late nineteenth and twentieth centuries.

Limited to 35 students.

Pre-reading: Required–Ibsen: *A Doll's House, Hedda Gabler;* Chekhov: *Plays;* Wilde: *Plays;* Shaw: *Heartbreak House.*

Recommended–Synge: *Playboy of the Western World;* Eliot: *Murder in the Cathedral.*

Instructor: Mr. Durbach.

Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

429. (3) Contemporary Literature. (A)

The course deals with major figures and trends in English literature between 1914 and 1960: Joyce, Lawrence, Woolf, Forster, Eliot, Yeats, Auden, and others.

Limited to 35 students.

Pre-reading: Required–Conrad, *Victory;* Lawrence, *Sons and Lovers, St. Mawr, The Man Who Died;* Forster, *A Passage to India;* Joyce, *A Portrait of the Artist as a Young Man;* Woolf, *To the Lighthouse;* Golding, *Lord of the Flies;* Greene, *The Heart of the Matter;* Eliot, *Four Quartets;* Yeats, *Selected Poems* (Macmillan).

Instructor: Mr. Randell.

Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

440. (3) Canadian Literature. (B)

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

Limited to 35 students.

Pre-reading: Essential–*Canadian Anthology*, ed. Klinck & Waters. Full course list will be at the Book Store as well.

Recommended–individual readings of personally selected titles from *New Canadian Library.*

Instructor: Mr. Kilgallin.

Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

530. (3) Studies in the Romantic Period. (C)
Wordsworth and Coleridge.
Limited to 10 students.
Pre-reading: Required–Apply to the Secretary, Graduate Committee, Department of English, Buchanan Building.
Instructor: Mr. Lucas.
Time: Seminars to be arranged. – 10:25 a.m.–12:20 p.m.

535. (3) Studies in the Victorian Period. (C)
Tennyson and Ruskin.
Limited to 10 students.
Pre-reading: Required–Apply to the Secretary, Graduate Committee, Department of English, Buchanan Building.
Instructor: Mr. Rosenberg.
Time: Seminars to be arranged – 10:25 a.m.–12:20 p.m.

FINE ARTS

101. (3) History of Fine Arts. (A)
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.
Instructors: Mr. Sandvoss, Mr. Woods.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

125. (3) History of Art. (A)
A survey of the history of architecture, painting and sculpture of the Western World from Ancient Egypt and Mesopotamia to the present.
Pre-reading: Recommended–H.W. Janson, *History of Art*, Prentice-Hall Inc., & Harry Abrams Inc., N.Y., 1968.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

228. (3) Design Fundamentals. (A)
An introductory study of visual forms, conducted through studio work and experiments closely related to illustrated lecture and demonstrations; the basic visual elements explored through two and three dimensional materials and intermedial projects.
Limited to 30 students. Priority–prospective Fine Arts majors.
Instructor: To be announced.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m.

300. (3) Introduction to the Plastic and Graphic Arts. (A)
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 the University Book Store.
Instructor: Mr. Thomas.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 1:30 p.m.–3:30 p.m.; Laboratory: 3:45 p.m.–5:45 p.m.

302. (3) Drawing and Painting. (B)
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.
For credit only in the Faculty of Education.
Limited to 20 students majoring in Art.
Prerequisite: Fine Arts 101 and Fine Arts 300 completed with adequate standing.
Instructor: Mr. Anderson.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 1:30 p.m.–3:30 p.m.; Laboratory: 3:45 p.m.–5:45 p.m.

303. (3) Ceramics and Modelling I. (B)
Introduction to ceramics and modelling with emphasis upon the preparation of clays, use of glazes and kiln-firing techniques. Demonstration and introduction to wheel techniques, including primitive firing techniques and kiln building.
For credit only in the Faculty of Education.
Limited to 10 students majoring in Art.
Prerequisite: Fine Arts 300.
Pre-reading: none, but students should bring 10 lbs. of clay from their locality for experiments.
Instructor: Miss Weakland.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m.

401. (3) Painting I. (A)
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.
For credit only in the Faculty of Education.
Limited to 20 students majoring in Art.
Prerequisite: Fine Arts 300 and 302 or equivalent courses.
Instructor: Mr. Healy.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m.

402. (3) Painting II. (A)
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.
For credit only in the Faculty of Education.
Limited to 20 students majoring in Art.
Prerequisite: Fine Arts 401.
Instructor: Mr. Pinsky.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 1:30 p.m.–3:30 p.m.; Laboratory: 3:45 p.m.–5:45 p.m.

403. (3) Ceramics and Modelling II. (B)
Advanced ceramics and modelling with specialization in the use of the potter's wheel, molds and casting, firing techniques; investigation of local and imported clay; glazing research.
For credit only in the Faculty of Education.
Limited to 7 students, majoring in Art.
Prerequisite: Fine Arts 300, 303.
Pre-reading: none, but students should bring 10 lbs. of clay from their locality for experiments.
Instructor: Miss Weakland.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m.

413. (3) Ceramics and Modelling III. (B)
A special study in an advanced field of ceramics and modelling. Work with primitive firing techniques and kiln building will be included.
For credit only in the Faculty of Education.
Limited to 3 students, majoring in Art.
Prerequisite: Fine Arts 300, 303, 403.
Pre-reading: none, but students should bring 10 lbs. of clay from their locality for experiments.
Instructor: Miss Weakland.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m.

425. (3) History of Modern Art. (C)
Painting and sculpture in Europe and America from 1800 to the present.
Pre-reading: Recommended–H.H. Arnason, *History of Modern Art;* G. Battcock (ed.) *The New Art;* G. Battcock (ed.) *Minimal Art.*
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

FRENCH

110. (3) First Year French. (A)
Limited to 25 students per section.
Prerequisite: French 11 or equivalent. Not available for credit to students who have

completed French 12 or the equivalent.
Instructor: Mrs. Grannis, Mr. Holdaway.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.

120. (3) Contemporary French: Language and Literature. (A)
Limited to 25 students.
Prerequisite: French 12 or French 110 or equivalent.
Instructor: Mr. Hamlin.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

202. (3) Studies in French Language and Style, I. (A)
Composition, oral practice, translation.
Limited to 20 students per section.
Prerequisite: French 120 or equivalent.
Instructors: Mr. Lavigne, Mr. Pesséat.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.

220. (3) An Introduction to French Literature. (A)
Limited to 25 students.
Prerequisite: French 120 or equivalent.
Instructor: Mr. St. Clair.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

302. (3) Studies in French Language and Style, II. (A)
Composition, syntax, versification, advanced translation and oral practice.
Limited to 20 students.
Prerequisite: French 202 (formerly 223).
Instructor: Mr. Bouygues.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

306. (3) French Phonetics. (A)
Theory and practice of French pronunciation.
Limited to 25 students.
Instructor: Mr. Matte.
Time: Five hours lectures and five hours laboratory a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

402. (3) Studies in French Language and Style, III. (A)
Stylistics, textual analysis, translation.
Limited to 20 students.
Prerequisite: French 302.
Instructor: Miss Lanthiez.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.– 10:10 a.m.

410. (3) Literature of the Eighteenth Century. (C)
The drama, the novel and the basic writings of Montesquieu, Voltaire, Diderot and Rousseau.
Instructor: Mr. Beugnot.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

414. (3) The Twentieth-Century Drama. (C)
Representative works and significant trends.
Instructor: Mr. Treil.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

GEOGRAPHY

101. (3) Introduction to Physical Geography. (A)
Weather and climate; origin and distribution of landforms with particular reference to North America.
Limited to 125 students. Priority–Geography Majors.
(Geography 101 may be credited as a science elective in the B.A. or the B.Ed. Programmes).
(Laboratory periods are available throughout each day and will be assigned at the first lecture).
Pre-reading: Recommended–Strahler, A.N., *Introduction to Physical Geography,* Wiley. 1965.
Instructor: To be announced.
Time: Ten hours lectures and eight hours laboratory a week, Monday through Friday – Lecture: 10:25 a.m.–12:20 p.m.; Laboratory: To be arranged.

102. (3) Introduction to Human Geography (A)
The study of human activities in their spatial and ecological contexts: economic development: cultural change; theories of the location of economic activity; urbanization; the geography of population and of resources; theories of the region and regionalization; field studies. Illustration will be drawn from various world regions.
Limited to 270 students. Priority–Geography Majors.
Replaces Geography 100 and 201.
(Laboratory periods to be arranged at first meeting).
Instructors: Mr. Claus, Mr. MacPherson.
Time: Ten hours lectures and four hours discussion groups a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m. Discussion groups to be arranged.

212. (1½) Climatology. (C)
An introduction to climatology with emphasis on the hydrologic cycle; evapotranspiration and runoff estimates; Thornthwaite II classification; topics in applied climatology and paleoclimatology.
Prerequisite: Geography 101.
Instructor: To be announced.

Time: Ten hours lectures and eight hours laboratory a week, Monday through Friday – July 6–28 – Lecture: 10:25 a.m.–12:20 p.m.; Laboratory: 1:30 p.m.–3:30 p.m., M.T.W.Th.

312. (1½) Statistical Climatology. (C)
Frequency, duration and intensity studies of selected climatic elements; microclimatology and its physical basis.
Prerequisite: Geography 212 and 374.
Instructor: To be announced.
Time: Ten hours lectures and eight hours laboratory a week, Monday through Friday – July 29–August 21 – Lecture: 10:25 a.m.–12:20 p.m.; Laboratory: 1:30 p.m.–3:30 p.m., M.T.W.Th.

350. (1½) Introduction to Urban Geography. (B)
Major themes in the geographic study of cities and urban systems.
Instructor: Mr. Trotier.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 10:25 a.m.–12:20 p.m.

360. (1½) Geography of Manufacturing. (B)
Major themes in the geographic study of manufacturing activities.
Prerequisite: Geography 102 (201).
Instructor: Mr. Claus.
Time: Ten hours lectures a week, Monday through Friday – July 6–28: 8:15 a.m.–10:10 a.m.

370. (1½) Air Photograph Analysis. (B)
Aerial photography; measurement from aerial photographs; photo-interpretation in geographic analysis; remote sensing of the earth's surface and atmosphere.
Prerequisite: Geography 101 or Geology 105.
Instructor: Mr. Hsu.
Time: Ten hours lectures and eight hours laboratory a week, Monday through Friday – July 6–28 – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m., M.T.W.Th.

372. (1½) Cartography. (B)
Cartographic methods: distribution mapping; statistical analysis of data on maps, graphs, cartograms; relief representation; map reproduction.
Prerequisite: Geography 101 or Geology 105.
Instructor: Mr. Hsu.
Time: Ten hours lectures and eight hours laboratory a week, Monday through Friday – July 29–August 21 – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m., M.T.W.Th.

494. (3) Geography of the Soviet Union. (C)
Distribution of population and its historical origins; physical environment; distribution of resources and economic activities; major regions; Soviet power in the modern world.
Prerequisite: Geography 100, 102 or 201, or Slavonic Studies 205 or instructor's permission.

Pre-reading: Students should read, in advance, at least one of the following: Hooson, D.J.M., *The Soviet Union,* University of London Press, 1966; Taaffe, R.N. & Kingsbury, R.C., *Atlas of Soviet Affairs,* Methuen, 1965; East, W.G., *The Soviet Union,* Van Nostrand Searchlight. The first two will be texts for the course.
Instructor: Mr. North.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

499. (3) Geography of Canada. (A)
Regional geography; landforms, climate, natural resources, population; primary industries. First half will emphasise Quebec.
Limited to 80 students. Priority–Geography Majors.
Instructors: Mr. Trotier, Mr. Robinson.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

GEOLOGY

105. (3) General Geology. (A)
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.
Instructor: Mr. Cunningham.
Time: Ten hours lectures and ten hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m.

GERMAN

100. (3) First Year German. (A)
Introduction to the language.
Instructor: Mrs. Lenos.
Time: Ten hours lectures and laboratory a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

200. (3) Second Year German. (A)
Reading, grammar, composition.
Prerequisite: German 100 or equivalent.
Instructor: Mr. Stenberg.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

350. (3) German Literature 1700–1800. (B)
Representative works with emphasis on Lessing, Goethe and Schiller.
Prerequisite: German 200 or equivalent.
Pre-reading: Recommended–Lessing, *Nathan der Weise,* Goethe, *Egmont.*
Instructor: Mr. McNeely.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

401. (3) Twenthieth-Century Drama. (C)
Critical interpretation of representative dramas from Naturalism to the present.
Prerequisite: Third year German or equivalent.

Pre-reading: Recommended–Information available from Department Office after May.
Instructor: Mr. Miller.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

516. (3) Guided Research. (C)
Tutorial.
Pre-reading: Required–List available in Department Office.
Instructor: Mr. Profitlich.
Time: Six hours lectures a week, Monday, Wednesday and Friday – 10:25 a.m.–12:20 p.m.

HISTORY

110. (3) Modern European History. (C)
Pre-reading: Recommended–J. Huizinga, *The Waning of the Middle Ages;* Erik Erikson, *Young Man Luther.*
Instructor: Mr. Fry.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

135. (3) Making of Canadian History. (C)
Pre-reading: Recommended–*Approaches to Canadian History, Introduction by Carl Berger, Canadian Historical Readings No. 1.*
Instructor: Mr. Taylor.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

310. (3) British Imperial History. (C)
Instructor: Mr. Naidis.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

316. (3) Ideas and Institutions of the Middle Ages. (C)
Instructor: Mr. Bak.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

318. (3) England Under the Tudors and Stuarts, 1485–1688. (C)
Prerequisite: a course in general European history since the Medieval period.
Instructor: Mr. Coates.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

326. (3) British North America, 1763–1867. (C)
The economic, social, and political development of the British colonies in North America from the cession of New France to Confederation.
Instructor: Mr. Upton.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

407. (3) History of Modern Germany. (C)
Instructor: Mr. Rodes.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

424. (3) Modern Chinese History Since 1840. (C)
Instructor: Mr. Wickberg.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

426. (3) Canada After 1867. (C)
Pre-reading: Reading lists will be available from the Office of the Department of History after March 15.
Instructor: Miss Roy.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

429. (3) History of the American West. (C)
Instructor: Mr. Fehrenbacher.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

HOME ECONOMICS

203. (1½) Elementary Nutrition. (B)
A basic nutrition course for students in the general programme and for other students not majoring in Home Economics. A consideration of the role nutrients (proteins, lipids, carbohydrates, minerals, vitamins and water) play in the diet and of the underlying biochemical and physiological processes involved in their utilization. Students cannot receive credit for Home Economics 203, 305 and 405.
Must be taken concurrently with Home Economics 205.
Prerequisite: Chemistry 103 or 110, Chemistry 230.
Instructor: Mr. Desai.
Time: Approximately five hours a week, on alternate days with Home Economics 205 – 10:25 a.m.–12:20 p.m.

205. (1½) Community and Public Health Nutrition. (B)
A consideration of the food and nutrition situation in Canada and in the developing countries. Attention will be given to dietary standards, public health surveys and nutrition education programmes.
Must be taken concurrently with Home Economics 203.
Pre-reading: Recommended– Basic Nutrition Text.
Instructor: Mrs. Reyburn.
Time: Approximately five hours a week, on alternate days with Home Economics 203 – 10:25 a.m.–12:20 p.m.

310. (1½) Clothing: Relationship to Human Needs and Behaviour. (B)
A study of human needs, cultural, and economic factors which influence clothing consumption and use. Application of sociological and psychological theories that give understanding to the clothing behaviour of an individual, as a unique being and as a member of a group.
Prerequisite: Courses in basic design, human development and social science are desirable.
Pre-reading: Recommended– Horn: *The Second Skin.*
Instructor: Mrs. Beeny.
Time: Four hours lectures a week, Tuesday and Thursday – 10:25 a.m.–12:20 p.m.

312. (1½) Clothing Design. (B)

A study of aesthetic theories and personal needs which influence the design of clothing. Designing of clothing accomplished by flat pattern and draping techniques. A brief investigation of the fashion industry and prominent designers.

Prerequisites: Courses in basic design and clothing construction experience desirable.

Instructor: Mrs. Beeny.

Time: Eight laboratory hours a week, Tuesday and Thursday – 1:30 p.m.–5:45 p.m.

ITALIAN

200. (3) Second Year Italian. (B)

Review of grammar, reading, composition, conversation.

Prerequisite: Italian 100.

Instructor: Mrs. De Stefanis.

Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

LATIN (See Classics)

120, 200, 220, 301, 405 or 521.

(3) Composite Course in Latin. (A)

Intended primarily for students attending the Summer Session. Horace's *Odes* 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, 220, 301, 403 or 521 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: Required–For Latin 200: the first five units of Ullman and Henry, *Second Latin Book* or equivalent.

Instructor: Mr. Morford.

Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

MATHEMATICS

100. (2) Calculus I. (A)

Ideas, techniques and applications of differentiation and integration.

Prerequisite: Mathematics 12 (Secondary School Programme, B.C.) or the equivalent.

Instructors: Mr. Sjerve, Mr. Gamst.

Time: Seven hours a week – Section A: Three 2 hour lectures and one 1 hour lecture a week – 8:15 a.m.–10:10 a.m.

121. (1) Introduction to Vectors and Matrices. (A)
Systems of linear equations, vectors, matrices, determinants, linear dependence.
Prerequisite: Mathematics 12 (Secondary School Programme, B.C.) or the equivalent.
Instructors: Mr. Sjerve, Mr. Gamst.
Time: Three hours a week – Section A: One 2 hour lecture and one 1 hour lecture a week – 8:15 a.m.–10:10 a.m.

200. (3) Algebra and Geometry. (C)
Mathematical induction, complex numbers, polynomials, matrices and determinants, conics and solid analytical geometry.
Prerequisite: Mathematics 120 (1968–69 session or earlier) or Mathematics 100 and 121 (1969–70 session).
Instructor: Mr. Choi.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

202. (3) Calculus. (C)
Differential and integral calculus, with applications.
Prerequisite: Mathematics 120 (1968–69 session or earlier) or Mathematics 100 and 121 (1969–70 session).
Instructor: Mr. Ree.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

300. (3) Calculus II. (A)
Differential and integral calculus with applications.
Prerequisite: Mathematics 202 or 220.
Instructor: Mr. Chang.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

306. (3) Topics in Geometry. (A)
A study of various geometries with some attention to the foundations of the subject.
Prerequisite: Mathematics 200.
Instructor: Mr. Macskasy.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

307. (3) Linear Algebra. (A)
Vector spaces, linear mappings, linear equations and matrices, linear inequalities and convex sets, inner products and norms, quadratic forms.
Prerequisite: Mathematics 200.
Instructor: Mr. Page.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

308. (3) Topics in Algebra. (A)
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 200.

Instructor: Mr. Adler.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

410. (3) Differential Equations. (A)
An introductory course with applications to geometry, mechanics, physics and chemistry.
Prerequisite: Mathematics 300.
Instructor: Mr. Mysak.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

412. (3) Fundamentals of Analysis. (B)
Set theory up to the Cantor-Bernstein equivalence theorem. Real numbers. Continuous-function theorems. Mean-value theorem. Brouwer fixed-point theorem. Poincarè's theorem on vector fields on the surface of a sphere.
Prerequisite: Mathematics 300.
Instructor: Mr. Bressler.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

530. (3) Topics in Algebra. (C)
Instructor: Mr. Higman.
Time: Ten hours lectures a week, Monday through Friday – July 6–August 21 – 10:25 a.m.–12:20 p.m.

MICROBIOLOGY

200. (3) Introductory Microbiology. (A)
Structure and function of bacteria and related microorganisms, bacterial growth and metabolism, virus replication, bacterial genetics chemotherapy, body defences against disease, dynamics of bacterial infection, industrial microbiology and principles of bioassay.
Prerequisite: Biology 101 or equivalent. This course is a prerequisite to all other courses in the Department except 416. It is a required course in Nursing, Pharmacy, Agriculture and Home Economics.
Instructors: Mr. Clark, Miss Robinson.
Time: Seven and one half hours lectures and seven and one half hours laboratory a week, Monday through Friday – Lecture: 8:15 a.m.–10:10 a.m.; Laboratory: 10:25 a.m.–12:20 p.m.

MUSIC EDUCATION

201. (3) Counterpoint and Harmony. (B)
A continuation and expansion of Music 101.
For credit only in the Faculty of Education.
Limited to 25 students.
Prerequisite: Music 101 or equivalent.
Instructor: Mr. DeCoursey.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

302. (3) Instrumental Techniques. (A)
Instruction in the playing and teaching of brasses, woodwinds and percussion. Organization of the instrumental music programme.
For credit only in the Faculty of Education.
Limited to 20 students.
Prerequisite: Music 201.
Pre-reading: Required–Colwell, Richard J. *The Teaching of Instrumental Music.* New York: Appleton-Century-Crofts.
Instructor: Mr. Tupman.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

307. (3) Music Education. (A)
A study of modern methods, materials, objectives, and philosophy pertaining to the teaching of music in elementary schools.
Prerequisite: Education 324 or Normal School Diploma.
Instructors: Mrs. Davies and Mr. Murray.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 8:15 a.m.–10:10 a.m.; Section 2: 10:25 a.m.–12:20 p.m.

542. (3) Theory and Principles of Music Education. (C)
Supervision and administration of music education. Individual projects on special interest areas.
Prerequisite: a major in Music Education or equivalent.
Instructor: Mr. Sandvoss.
Time: To be arranged with instructor.

MUSIC

320. (3) History of Music. (B)
The development of music from circa 1600 to 1900.
Instructor: Mr. Douglas.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

326. (3) Music Appreciation. (A)
Designed for senior students with little or no musical background.
Pre-reading: Recommended–Aaron Copland, *What to Listen for in Music.*
Only Third and Fourth Year students may apply.
Instructor: Mr. Adaskin, Mr. Schell.
Time: Ten hours lectures a week, Monday through Friday – Section 1: 10:25 a.m.–12:20 p.m.; Section 2: 1:30 p.m.–3:30 p.m.

339. (3) Opera Workshop I. (A)
Preparation of and participation in excerpt scenes and complete production of operatic works of varied repertoire. Emphasis upon musical and dramatic styles and acting techniques.
Limited to 20 students.
Prerequisite: pre-registration audition required.

Instructor: Mr. Tickner.
Time: This course will be given 7:00 p.m.–10:00 p.m., Monday through Friday.

439. (3) Opera Workshop II. (A)
A continuation of Music 339.
Limited to 20 students.
Prerequisite: Pre-registration audition and discussion required.
Instructor: Mr. Tickner.
Time: This course will be given 7:00 p.m.–10:00 p.m., Monday through Friday.

NURSING

356. (3) Perspectives in Nursing. (A)
The nature of nursing intervention with emphasis on current theories and concepts.
Prerequisite: Waived for students taking this course: credit for Nursing 252 is helpful but not required.
Instructor:
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

PHILOSOPHY

100. (3) Introduction to Philosophy. (A)
Some influential philosophical writings and doctrines will be studied as an introduction to the problems and methods of Philosophy. Some of the problems to be studies are: the relation of body and mind; appearance and reality; what is knowledge; what is truth; what is right or ethical; is God dead or alive.
Pre-reading: Recommended–Plato, *Euthyphro, Apology, and Crito,* Liberal Arts Press.
Instructor: Mr. Mullins.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

301. (3) Ethics. (C)
A study of some major problems in moral and political philosophy such as utilitarianism, emotivism, egoism, freedom and authority.
Pre-reading: Recommended–J.S. Mill, *Utilitarianism,* H. Sidgwick, *A History of Ethics.*
Instructor: Mr. Sikora.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

PHYSICAL EDUCATION

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

201. (1) Gymnastics IA (Women). (A)
Tumbling and apparatus, rhythmical gymnastics, teaching methods and techniques.
Limited to 30 students.
Pre-reading: Required–Cochrane, *International Gymnastics for Girls and Women,* Addison-Wesley Publishing Company.

Instructor: Mrs. Gordon.
Time: One hour per day, Monday through Friday – 9:15 a.m.–10:10 a.m.

202. **(1) Gymnastic Activities IB (Men). (A)**
Tumbling and apparatus, teaching methods and techniques.
Limited to 30 students.
Pre-reading: Required–Hughes, *Gymnastics for Men,* Ronald Press Company.
Instructor: Mr. Johnson.
Time: One hour per day, Monday through Friday – 2:35 p.m.–3:30 p.m.

203. **(1) Conditioning Programmes (Men/Women). (A)**
Conditioning exercises, fitness assessment, adaptation of exercise programmes, teaching methods and techniques.
Limited to 30 students.
Pre-reading: Required–Cooper, *Aerobics,* Bantam Books.
Instructor: Mr. Gautschi.
Time: One hour per day, Monday through Friday – 11:25 a.m.–12:20 p.m.

209. **(1) Softball. (C)**
Skills, rules, offensive and defensive tactics, teaching methods and techniques.
Instructor: Mr. Thomas.
Time: One hour per day, Monday through Friday – 11:25 a.m.–12:20 p.m.

210. **(1) Basketball. (A)**
Skills, rules, offensive and defensive tactics, teaching methods and techniques.
Limited to 50 students.
Pre-reading: Required–Newell, P., & Benington, J., *Basketball Methods.*
Instructor: Mr. Korchinsky.
Time: One hour per day, Monday through Friday – 8:15 a.m.–9:10 a.m.

212. **(1) Football. (B)**
Skills, rules, offensive and defensive tactics, teaching methods and techniques.
Instructor: Mr. Thomas.
Time: One hour per day, Monday through Friday – 9:15 a.m.–10:10 a.m.

218. **(1) Games, Contests and Relays. (A)**
Individual, pair, team and group activities; teaching methods and techniques.
Limited to 40 students.
Instructor: Mr. Johnson.
Time: One hour a day, Monday through Friday – 1:30 p.m.–2:25 p.m.

219. **(1) Volleyball. (A)**
Skills, rules, offensive and defensive tactics, teaching methods and techniques.
Limited to 40 students.
Pre-reading: Required–*Canadian Volleyball Annual and Rule Book,* 1964.
Recommended–R.C.A.F., *How to Play Better Volleyball,* Queen's Printer.
Instructor: Mr. Coutts,
Time: One hour a day, Monday through Friday – 10:25 a.m.–11:20 a.m.

220. **(1) Badminton. (C)**
Skills, rules, offensive and defensive tactics, teaching methods and techniques.

Instructor: Mr. Bell.
Time: One hour a day, Monday through Friday – 3:45 p.m.–4:40 p.m.

230. (1) Swimming. (A)
Water safety, strokes, skills, entries, survival techniques, teaching methods and techniques.
Limited to 20 students per section.
Pre-reading: Required–*The Water Safety Manual of the Canadian Red Cross.*
Note: Non swimmers should not register for this course. Such persons should consult Mr. J.B. Pomfret for a special programme.
Instructor: Mr. Korchinsky and Mr. Gautschi.
Time: One hour a day, Monday through Friday – 12:30 p.m.–1:25 p.m.

240. (1) Dance. (A)
A composite course of folk, square and ballroom dancing, teaching methods and techniques.
Instructors: Mr. Pedersen and Mrs. Penney.
Time: One hour a day, Monday through Friday – 8:15 a.m.–9:10 a.m.

244. (1) National Dance. (B)
Steps, dances and style characteristics of the folk dance of various countries, teaching methods and techniques.
Instructor: Mrs. Snider.
Time: Two hours a day, Monday through Friday – 2:35 p.m.–4:30 p.m., July 6–28.

250. (1) Track and Field I. (A)
Running, jumping, throwing, hurdling, kinesiological and mechanical principles, conditioning activities, teaching methods and techniques.
Limited to 30 students.
Pre-reading: Recommended–Powell, J.B., *Track and Field for Teachers and Coach;* Pugh, D.L. and Watts, D.C.V., *Athletics for Women; Amateur Athletic Association's Instructional Booklets;* Doherty, K., *Modern Track and Field.*
Instructor: Mr. McNulty.
Time: One hour a day, Monday through Friday – 3:45 p.m.–4:40 p.m.

260. (1½) Foundations of Physical Education. (A)
A study of physical education as a profession; principles, nature and scope, objectives and their interpretations.
Limited to 40 students.
Pre-reading: Required–*Anthology of Contemporary Readings, An Introduction to Physical Education.* Ed.: Howard S. Slusher & Aileene S. Lockhart.
Instructor: Mr. Bell.
Time: One hour lecture, Monday through Friday – 10:25 a.m.–11:20 a.m.

262. (1½) Health I. (A)
An introduction to health education; body systems; growth and development, food habits and problems, personal hygiene.
Limited to 40 students.
Prerequisite: Second Year Standing or consent of Instructor.

Pre-reading: Required–McNaughton and Callander, *Illustrated Physiology.*
Recommended–Miller and Burt, *Good Health.*
Instructor: Mr. Coutts.
Time: One hour a day, Monday through Friday – 1:30 p.m.–2:25 p.m.

365. (1½) Training and Conditioning for Competition. (C)
Methods of athletic conditioning, planning the programme, psychology of training and coaching, athletic evaulation.
Prerequisite: Third Year Standing.
Instructors: Mr. Marteniuk, Mr. Pomfret.
Time: One hour a day, Monday through Friday – 11:25 a.m.–12:20 p.m.

462. (1½) Health II. (B)
Current problems in health education with selection determined by needs of the students–social hygiene, habit-forming substances, communicable and non-communicable diseases.
Prerequisite: Physical Education 262 or Anatomy 390 or Physical Education 391.
Instructor: Mr. Whittle.
Time: One hour a day, Monday through Friday – 10:25 a.m.–11:20 a.m.

470. (1½) Tests and Measurements in Physical Education. (B)
Physical education tests; physical fitness, physiological fitness, posture, strength, motor ability, social efficiency, skill and knowledge tests.
Limited to 25 students.
Instructor: Mr. Marteniuk.
Time: One hour a day, Monday through Friday – Lecture: 1:30 p.m.–2:25 p.m.; Laboratory: 2:35 p.m.–3:30 p.m., T.Th.

PHYSICS

110. (3) Mechanics, Electricity and Atomic Structure. (A)
Prerequisite: Physics 11, Mathematics 120 must precede or be taken concurrently with this course.
Instructor: Mr. Martin.
Time: Ten hours lectures and twelve hours laboratory a week, Monday through Friday – Lecture: 10:25 a.m.–12:20 p.m.; Laboratory: 1:30 p.m.–4:30 p.m., M.T.W.Th.

308. (2) Optics and Spectroscopy. (B)
Geometrical and physical optics; interference, diffraction, polarization, spectroscopy and the vector model.
Instructor: Mr. Mathison.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

316. (3) Particle Mechanics. (B)
Vector methods; Galilean invariance; non-relativistic dynamics; conservation of energy and momentum; harmonic motion; inverse square law forces; speed of light; Lorentz transformation; relativistic dynamics; particles of modern physics.

Instructor: Mr. Balzarini.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

318. (1) Optics Laboratory. (B)
Selected experiments in optics. To be taken concurrently with or following Physics 308.
Instructor: Mr. Mathison.
Time: Twelve laboratory hours a week, Monday through Thursday – 1:30 p.m.–4:30 p.m.

POLITICAL SCIENCE

200. (1½) The Government of Canada. (A)
An examination of the institutions and processes of Canadian government.
Instructor: Mr. Black.
Time: Ten hours a week, Monday through Friday – July 29–August 21 – 8:15 a.m.–10:10 a.m.

202. (1½) Contemporary Ideologies. (B)
An examination of some of the major political ideologies including communism, socialism, fascism, liberalism, conservatism as well as some of the ideologies of contemporary protest.
Instructor: Mr. Steck.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 8:15 a.m.–10:10 a.m.

204. (3) International Politics. (A)
Ways of thinking of international relations; the systems approach, the power approach and other approaches. The concept of the balance of power and distribution of power within the international system. Influences on foreign policy decision-making. Evolution of the present international system and history of the Cold War. Study of the causes of international conflict and war, and alternatives to conflict such as disarmament and international law. Guerilla war and revolution, including a case study of the war in Vietnam. International organizations.
Limited to 75 students.
Pre-reading: Recommended–Karl Deutsch, *The Analysis of International Relations.*
Instructor: Mr. Long.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

300. (3) Development of Political Theory: Basic Concepts and Issues. (A)
Evolution of political ideas and various basic concepts of government including theory of the state, natural law, sovereignty, social contract, divine right of kings, common good, obligation and consent; the problem of power in the state; authority and freedom; citizens' rights and duties; liberty and equality.
Pre-reading: Recommended–Plato's *Republic.*
Instructor: Mr. Smiley.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

306. (1½) Parties and Movements. (B)
A comparative examination of political parties and political movements, with special reference to Europe and North America.
Instructor: Mr. Steck.
Time: Ten hours lectures a week, Monday through Friday – July 29–August 21 – 8:15 a.m.–10:10 a.m.

440. (1½) Democracy in a Changing World. (C)
Basic principles of democracy; a model for international comparison. Survey of liberal democratic states: merits and defects of old-established systems; problems of the emergent democracies. Democratic relativism; democracy and foreign affairs; democracy and nationalism; responsibilities of the mass media; concentration of private power; future of democracy.
Prerequisite: Political Science 201 or 202, or 300 or special permission.
Pre-reading: Required–Bachrach, Peter, *The Theory of Democratic Elitism*, Little, Brown & Co., 1967.
Instructor: Mr. Paehlke.
Time: Ten hours lectures a week, Monday through Friday – July 6–28 – 8:15 a.m.–10:10 a.m.

PSYCHOLOGY

100. (3) Introductory Psychology. (A)
Selected topics in general psychology. Emphasis on current research and the psychologist's appraoch to problems in the context of representational theories and issues in psychology.
Instructor: Mr. Davenport.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

200. (3) Experimental Psychology. (A)
A detailed introduction to experimental and theoretical aspects of sensation, perception, learning and motivation. The emphasis is upon content rather than method.
Limited to 100 students.
Prerequisite: Psychology 100.
Pre-reading: Required–D.K. Cardland, *Psychology–The Experimental Approach*, McGraw-Hill Book Co.
Instructor: Mr. Lakowski.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

301. (3) Developmental Psychology. (C)
The psychological development of infants and children from birth to adolescence. Emphasis on intellectual and social developments and the development of personality.
Pre-reading: Required–Mussen, Conger & Kagan, *Child Development and Personality*, Harper & Row, 1969.
Recommended–Ginsburg & Opper, *Piaget's Theory of Intellectual Development*, Prentice-Hall, 1969.

Instructor: Mr. Pascual-Leone.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

316. **(3) Methods in Research. (A)**
A detailed coverage of basic research methods. The design of experiments and statistical analysis. Methods will be applied in laboratory and project work.
Prerequisite: Psychology 200.
Instructor: Mr. Johnson.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

400. **(3) Abnormal Psychology. (C)**
The definition, history and scope of deviant behavior with emphasis on the psychological factors that control its origins, maintenance and modification.
Pre-reading: Required–Ullman, L.P. and Krasner, L., *A psychological approach to abnormal behavior,* Prentice-Hall, 1969.
Recommended–Southwell, E.A. and Feldman, H., *Abnormal Psychology: Readings in Theory and Research.* Brooks/Cole, 1969.
Instructor: Mr. Craig.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

546. **(1–3) Seminar in Psychological Problems. (C)**
An advanced seminar in clinical psychology, giving emphasis to problems and methods of concern to clinical psychologists. This course is limited to graduate students with the appropriate background and training. Admission by consent of instructor only.
Limited to 6 students.
Instructor: Mr. de Martino.
Time: Ten hours lectures a week, Monday through Friday – 1:30 p.m.–3:30 p.m.

RUSSIAN

180. **(6) Intensive Summer Workshop in Russian. (C)**
Students will be given instruction in language which in scope will correspond to Russian 100 and 200 or Russian 110 and offered an opportunity to integrate their newly acquired knowledge in an all Russian environment specially created for the program. Russian born instructors and language laboratory will be used together with recreational facilities.
Limited to 40 students.
Students graduating from high school in Spring 1970 may enrol in this course.
Instructor: Mr. Solecki and Staff.
Time: Students will be involved all day each day. Monday through Friday.

280. **(6) Intensive Summer Workshop in Russian Intermediate Level. (C)**
Students will be given instruction in language which in scope will correspond to Russian 210 and will be offered an opportunity to integrate their newly acquired knowledge in an all Russian environment especially created for the program (separate from 180). Russian born instructors and language laboratory will be used together with recreational facilities. As with 180, there is a considerable stress on oral participation and performance.
Limited to 24 students.

Prerequisite: Russian 180, Russian 100 and 200, Russian 110 or equivalent.
Instructor: Mr. Solecki and Staff.
Time: Students will be involved all day each day, Monday through Friday.

SOCIOLOGY

200. (3) Introduction to Sociology. (A)
A general introduction to sociological analysis of selected topics: religion, work, politics, stratification kinship, socialization, social roles.
Instructor: Mr. Davies.
Time: Ten hours lectures a week, Monday through Friday – 10:20 a.m.–12:20 p.m.

353. (3) Work and Industry. (C)
Theoretical problems and empirical research in the meaning and social organization of work and the composition of occupational roles.
Limited to 50 students–commitment to Sociology Major or Honours Programme.
Prerequisite: Sociology 200.
Pre-reading: Required–Delbert C. Miller & William H. Form, *Industrial Sociology,* Harper & Row; John C. Leggett, *Class, Race & Labor,* Oxford University Press; Paul Phillips, *No Power Greater: A Century of Labour in B.C.,* Vancouver 1, B.C. Federation of Labour and the Boag Foundation, 1967.
Recommended–Reinhard Bendix, *Work and Authority in Industry;* Arthur Kornhauser et al, *Industrial Conflict,*(New York: University Books, 1956); Martin Robin, *Radical Politics & Canadian Labour: 1880–1930,* Queens University Press, 1968; Harold Welensky & Charles Lebeaux, *Industrial Society & Social Welfare* (New York: The Free Press 1965)
*Instructor:*Mr. Leggett.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

463. (3) Sociology of Religion. (C)
Description and analysis of various religious groups: organization and leadership, relationships to the state and other institutions, religious statistics, problems of definition of "religion"; theories of religion: functionalist, Marxist, psychoanalytic.
Limited to 50 students–commitment to Sociology Major or Honours Programme.
Prerequisite: Sociology 361 or 362, or permission of instructor.
Pre-reading: Required–Max Weber, *The Protestant Ethic and the Spirit of Capitalism;* Gerhard Lenski, *The Religious Factor;* Knudten, *The Sociology of Religion;* Robert Bellah, *The Tokugawa Religion.*
Instructor: Mr. Fusé.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

SPANISH

100. (3) First Year Spanish. (A)
Grammar, composition, translation, oral practice.
Instructor:
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

200. (3) Second Year Spanish. (A)
Composition, translation and oral practice.
Prerequisite: Spanish 100 or equivalent.
Pre-reading: Required–Short Stories in Spanish: *Cuentos hispanicos* (Penguin Parallel Text) Examination, at the beginning of the course, to be written on the eight Spanish stories.
Instructor: To be announced.
Time: Ten hours lectures a week, Monday through Friday – 8:15 a.m.–10:10 a.m.

THEATRE

300. (3) Theatre Practice. (A)
Acting: the fundamentals of inner technique to create character, external techniques to project character, improvisations and class presentations of short scenes for practical application of inner and external techniques.
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. (Application for admission of non-credit students must be made to the Department of Theatre not later than May 10, 1970).
Pre-reading: Recommended–David Magarshack, *Stanislavsky on the Art of the Theatre,* pp. 11–87.
Instructor: Mr. Weese.
Time: Ten hours lectures a week, Monday through Friday – Lecture: 1:30 p.m.–3:30 p.m. Extra rehearsals as arranged.

310. (3) History of the Theatre to 1700. (B)
Prerequisite: Open to Third Year Students and above.
Pre-reading: Recommended–*Treasury of the Theatre,* Volume I (edited John Gassner).
Instructor: Mr. Brockington.
Time: Ten hours lectures a week, Monday through Friday – 10:25 a.m.–12:20 p.m.

ZOOLOGY

416. (3) Terrestrial Vertebrate Zoology. (C)
The forms, function and evolution of terrestrial vertebrates, as related to their distribution and abundance. The laboratory includes classification, life histories and ecology of terrestrial vertebrates with particular attention to British Columbia.
Limited to 25 students.
Prerequisite: Zoology 202 or 203.
Instructor: Miss Smith.
Time: Eight lecture hours, Monday, Tuesday, Thursday and Friday – 8:15 a.m.–10:10 a.m.; Eight laboratory hours, Monday, Tuesday, Thursday and Friday – 1:30 p.m.–3:30 p.m.

SUMMER SESSION REGISTRATION–1969

Credit Courses

MEN	WOMEN	TOTAL
2756	2871	5627

EXTENSION CREDIT COURSES

ON–CAMPUS EXTENSION CREDIT COURSES

May 4–July 30, two evenings a week, 7–9:45 p.m. *Calendar available upon request*; write to Extension Department, University of British Columbia, Vancouver 8, B.C., or, telephone 228-2181, local 25.

Anthropology 200	Introduction to Anthropology
Anthropology 301	Indians of British Columbia
Anthropology 320	Prehistory of the Old World
Anthropology 412	Introduction to Anthropological Problems
Economics 200	Principles of Economics
Economics 352	International Economics
Economics 357	Labour Economics and Manpower
English 200	Literature and Composition
English 303	English Composition
English 311	Children's Literature
English 340	The English Novel
English 365	Shakespeare
English 370	Seventeenth-Century Literature
English 391	The Romantic Period
English 429	Contemporary Literature
English 454	American Fiction
History 326	British North America, 1763–1867
Mathematics 307	Linear Algebra
Nursing 252	Human Behaviour
Nursing 281	Introduction to Statistics and Research Methods
Philosophy 100	Introduction to Philosophy
Political Science 310	Introduction to Political Behaviour
Political Science 405	British Government
Political Science 416	French Government
Psychology 100	Introductory Psychology
Psychology 206	Dynamics of Behaviour
Psychology 305	Theory of Personality
Psychology 308	Social Psychology

Psychology 316	Methods in Research
Psychology 409	Cognitive Processes
Sociology 200	Introduction to Sociology
Sociology 361	Social Stratification
Sociology 362	Collective Behaviour
Sociology 425	Urban Sociology
Sociology 465	Sociology of the Arts

Education 479 – Indian Education

Course Dates: July 6 to August 21

Purpose of Course:

1. To increase, on the part of teachers and prospective teachers, knowledge of the anthropological, sociological, historical, and contemporary background of native Indians, as this relates to classroom teaching.

2. To develop the ability to adapt teaching to the needs of Indian students.

Course Description:

(3 Units) Instructional Techniques for Adapting Teaching to the Needs of Indian Students; Methods of Enriching the Curriculum by Including the Cultural Background of all Students. The course will include some examination of the anthropological, sociological, and historical background of native Indians with an emphasis on contemporary situations as these relate to teaching.

Prerequisite:

Educational Sociology 470, Anthropology 301 – B.C. Indians, or permission of the instructor.

Course Staff:

Instructor – Dr. Arthur More, Faculty of Education, and Faculty members of various University Departments. Guest Lecturers include: Mr. George Clutesi, other members of the Indian community and representatives of the teachers' and trustees' provincial organizations.

Information on Registration for Credit:

Students taking Education 479 should register through the Registrar's Office as Extension Credit Course students. Not more than 6 units may be taken during the Summer Session period, therefore, a student taking Education 479 for 3 units of credit may take only three additional units of credit during Summer Session.

Information on Registration for Auditors:

A limited number of auditors will be accepted into the course. Auditors must apply to Education-Extension and include a fee of $75.00. Persons wishing to audit should *not* contact the Registrar's Office.

Course Enrolment:

Limited to 80 students. Participants will be selected using the following criteria:

1. a balance between teachers already successfully involved in Indian Education and inexperienced teachers.
2. evidence of background knowledge of B.C. Indians.
3. active participation in education of Indian children.

A letter describing the degree to which the applicant fits the above criteria must accompany the application forms.

IN–THE–FIELD COURSES

Geography 495 – Andean South America – July and August 1970

Geography 495, The Geography of Latin America, will be offered in Andean South America during the summer of 1970 for 3 units of credit at The University of British Columbia. The course will deal first with cultural geographical pattern and change in all of Latin America, then concentrate on a detailed consideration of these elements in the various environments between the Pacific coast and Amazonia. Principal stops for lectures and seminars will be Quito, La Paz and Lima. Extensive excursions will be taken from each of these centres. Enrolment is limited and admission subject to instructor's permission. Some background in human or cultural geography will be advantageous. There will be room for a limited number of non-credit participants.

Instructor, Dr. Alfred H. Siemens. Course duration, July 3–August 9, 1970. Airfare $828.00, ticket open-ended. Ground arrangements $972.00, includes tuition, lodging, scheduled field trips, guided tours, airport transportation. Students will be responsible for the purchase of most of their own meals.

Two scholarships of $250.00 each have been made available to the instructor by the *UBC Alumni Association* for the assistance of credit students showing scholastic aptitude, strong motivation and some evidence of need. To apply for one of these scholarships, please forward a transcript of university grades, a letter of reference from someone who is qualified to comment on your educational or professional achievement and a personal statement of no more than 500 words why you think the scholarship should be conferred.

Application for Admission form, to be returned by March 16th, 1970.

Geography 495–The Geography of Latin America. A 3-Unit UBC Course to be held in Andean South America July 3–August 9, 1970.

Mr./Mrs./Miss . . . . . .

Address . . . . . .

Occupation . . . . . .

Age Group Under 21 21–40 41–65 Over 65

Daytime Telephone Evening Telephone

Please check:–

- ☐ I have previously enrolled in credit courses at The University of British Columbia
- ☐ I have *not* previously enrolled in credit courses at The University of British Columbia.
- ☐ I wish to take the course for credit
- ☐ I wish to apply for the scholarship
- ☐ I wish to take the course for non-credit.

This application for admission form must be accompanied by a $50.00 deposit cheque. Please make cheque payable to The University of British Columbia. Mail form and deposit to: *Department of University Extension*, University of British Columbia, Vancouver 8, B.C.

The $50 deposit less an administration charge of $3 will be refundable up until June 3, after that date only if admission to course is refused.

Archaeology of the Ancient Near East, Religious Studies 407

Archaeology of the Ancient Near East, Religious Studies 407, will be offered in the Eastern Mediterranean area July 4 to August 14, 1970 for 3 units of credit at the University of British Columbia. The course will be open to a limited number of persons who do not wish to take it for credit.

The course, a study of the Culture of the Ancient Near East will concentrate on Lebanon, Jordan and Egypt and will include site visits to Baalbek, Byblos, Petra, Jerash and Cairo. Should the political situation necessitate a change of plans, Turkey will be substituted for Egypt and the course will end in Athens instead of Rome.

Instructor: Dr. Hanna E. Kassis

$1575 fee includes:

Airfare – Vancouver/London/return on special low priced flight departing July 4 and returning from London August 24.

Airfare – London/Beirut/Amman/Cairo/London. Course will end in Rome August 14 enabling participants to return to London for August 24 flight at their leisure.

Ground arrangements – Includes tuition, lodging July 4 to August 14 at hotels and the American University of Beirut, field trips, guided tours, museum visits, airport transportation. Participants will be responsible for the purchase of most of their own meals.

Registration Procedure:

Complete and return the Application for Registration form as soon as possible. Students wishing to take course for credit but who have not previously enrolled in credit courses at the University of British Columbia will then be sent Application for Admission forms (deadline March 31). Admitted students, credit and non-credit, will receive course Registration forms, (deadline May 15).

The $50 deposit less an administration charge of $3 will be refundable up until June 5, after that date only if admission to course is refused.

Archaeology of the Ancient Near East, Religious Studies 407 – July–August, 1970

Mr./Mrs./Miss . . . . . .

Address . . . . . .

Occupation . . . . . .

Age Group Under 21 21–40 41–65 Over 65

Daytime Telephone Evening Telephone

Please check:–

- ☐ I have previously enrolled in credit courses at The University of British Columbia
- ☐ I have *not* previously enrolled in credit courses at The University of British Columbia
- ☐ I wish to take the course for credit
- ☐ I wish to take the course for non-credit

This application for registration form must be accompanied by a $50 deposit cheque. Please make cheque payable to the University of British Columbia. Mail form and deposit to: Department of University Extension, University of British Columbia, Vancouver 8, B.C.

CREDIT CORRESPONDENCE COURSES

Students are reminded that correspondence courses are available at this time of year. For an Independent Study Calendar outlining the courses offered, please write to the Secretary, Correspondence Courses, Extension Department, University of B.C., Vancouver 8, or, telephone 228-2181, local 24.

EXTENSION DEPARTMENT PROGRAMMES

READING IMPROVEMENT PROGRAMME

The Reading and Study Skills Centre

Courses for adults and students will begin July 6. Classes meet two hours twice a week for five weeks.

Location: Reading Centre, East Mall Annex, U.B.C. Campus

Fee: $60 for adults, $30 for students

For information contact: Secretary, Reading and Study Skills Programme, Education-Extension, Extension Department, 228-2181

WRITING IMPROVEMENT PROGRAMME

A five-week course for students and adults on improving essay writing begins July 6. Classes meet two hours twice a week.

Location: Buchanan Building, U.B.C. Campus

Fee: $60 for adults, $30 for students

For information contact: Writing Improvement Course, Education-Extension, Extension Department, 228-2181.

INTENSIVE ENGLISH COURSE FOR FOREIGN STUDENTS

July 6–August 14

8:30 a.m.–11:30 a.m. plus one hour in the language laboratory
Instructor: Mrs. Joyce Searcy
Fee: $190.00
Enrolment limited.

An intensive course in spoken and written English to help university-level foreign students improve their proficiency in English. Techniques used in the course will apply the principles and research of modern linguistic science to the teaching of English. The course is intended to help adults master the pronunciation, intonation and grammatical patterns of spoken English and the skills of reading and writing. As well as the three-hour lecture period and one hour in the language laboratory, students will be required to do reading and writing assignments.

This is not a beginners course; it will be assumed that English has been studied in the student's native country.

The enrolment will be limited so that attention can be given to individual requirements. The course is non-credit and will not guarantee admittance to a university.

On-campus room and board is available for the course duration.

For registration or further information: Language Programmes, Extension Department, University of British Columbia, Vancouver 8, B.C. or, telephone 228-2181.

SUMMER COURSE IN JAPANESE LANGUAGE
July 2–August 13

7:30–9:30 p.m., Monday, Wednesday and Thursday evenings
Mr. Kenji Ogawa, Department of Asian Studies, U.B.C.
Location: Room 222, Buchanan Building, U.B.C.
Fee: $70.00
Class Limited

This introduction to spoken Japanese will be of particular interest to persons planning to travel to Japan. It also will provide a sound foundation for further study of the language.

Persons wishing home practice on their own tape recorders will be able to have Language Laboratory tapes duplicated.

DAYTIME PROGRAMMES

Special Daytime Non-Credit Programmes in Art, Environmental Walks, etc., will be offered by the UBC Extension Department during the Summer Session.

For further information on registration please phone: Daytime Programme, Extension Department, 228-2181.

HUMANITIES, SCIENCES AND CREATIVE ARTS PROGRAMMES

Piano Master Classes

Miss Lillian Steuber, Professor of Piano, School of Performing Arts, University of Southern California. July 3–August 7, 1970.

Beethoven Bicentennial Recitals

Miss Steuber will give a series of seven recitals in which she will play all thirty-two of Beethoven's sonatas.

For further information contact:

Humanities, Sciences and Creative Arts Programmes
Extension Department
The University of British Columbia
Vancouver 8, B.C.
Phone 228-2181

SUMMER COURSES FOR TEACHERS 1970 EDUCATION–EXTENSION

Conference

The Consumer in a Changing Society
Annual Conference Sponsored by the School of Home Economics, U.B.C.
Date: June 29 to July 3
Location: Totem Park, U.B.C. Campus

Workshop

An intensive workshop for teachers and counsellors in the field of *Family Life and Sex Education*
Dates: July 24, 25, 26
Location: Totem Park, U.B.C. Campus

Workshop

Techniques of Film-Making for Educational Use
Dates: June 28 to July 5
Location: Totem Park, U.B.C. Campus

Workshop

Art, Music and Drama – A Workshop for Elementary Teachers
Dates: August 3 to 7 (tentative)
Location: Totem Park, U.B.C. Campus

Two Educational Travel Programmes

Summer Studies in Europe – Culture, History, Geography. An eight-week travel programme of studies in Europe in July and August 1970. Periods of study, tours and field work scheduled for Edinburgh, London, Brussels, Uppsala, and Helsinki, with lectures and seminars at major universities. Programme designed for persons with professional interests in education.

Physical Education in England – Offered in cooperation with the Physical Education Department, Faculty of Education, U.B.C. and the U.B.C. Summer Session Office. A three-week course of residential studies during July 1970 in Physical Education for teachers. Course will be located at Borough Road College in the London area and involves visits to schools in several parts of England. Four additional weeks are open for travel and a programme of optional visits to schools and colleges in England and on the Continent. Eligible persons may arrange to have the course of studies considered for university credit.

Vocational Instructors' Certificate

Date: July 6 to August 7
Location: MacMillan Building, U.B.C. Campus

This Certificate Programme of courses is sponsored by the Department of Education, Victoria, for the training of instructors for B.C. Vocational Schools. *Applicants must hold an appointment to a B.C. Vocational School or have permission to take the courses granted by the Technical and Vocational Division of the Department of Education.*

Courses to be offered Summer 1970:

VE 181–Curriculum and Organization in Vocational Education (50 hours)
VE 182–Methods of Instruction in Vocational Subjects (50 hours)
VE 183–Learning Theories and Evaluation (50 hours)
VE 184–Psychology of Development and Adjustment (50 hours)
VE 185–Case Studies (25 hours)
VE 188–Library Reading and Study Skills (25 hours)

Fee Scale: 5 week, 50 hour course – $55 (3 units); 2½ week, 25-hour course – $27.50 (1½ units)

For information and a detailed brochure contact:
Administrator,
Vocational Instructors' Certificate Programme
Education Extension, Extension Department, U.B.C.
228-2181

Education of Young Children Certificate Programme

Courses, dates and campus location to be announced. For information on the Certificate Programme in Summer Session courses contact:

Administrator
Education for Young Children Programme
Education-Extension, Extension Department, U.B.C.
228-2181

SOCIAL WORK

Summer Institutes 1970

Sponsored by the School of Social Work in cooperation with the Extension Department, University of British Columbia.

These non-credit courses are designed for qualified, experienced social workers. Preference will be given to persons having the M.S.W. degree. Early application is advisable, since registration will be limited.

Both courses will be held in the School of Social Work on the Campus of the University of British Columbia.

(Accommodation is available in Totem Park residence on the U.B.C. Campus. Write to the Housing Administration, University of B.C., Vancouver 8, B.C.)

For further information write to Extension Programmes in Social Work, Extension Department, University of British Columbia, Vancouver 8, B.C.

1. *Social Work with Groups, June 15–19.*

Dr. Henry W. Maier, Professor, School of Social Work, University of Washington, Seattle, Washington.

2. *Administration of Public Welfare Agencies, June 22–26*

Mr. John C. Kidneigh, A.C.S.W., Director, School of Social Work, University of Minnesota, Minneapolis, Minnesota.

Advance registration required. Deadline for both institutes: May 31, 1970.

OFFICE OF SHORT COURSES AND CONFERENCES

This Office presently serves faculty and community in several ways. The routine business includes all of the physical aspects of Conferences or Short Courses held on campus. Such items as meeting rooms, meals, sleeping accommodation, signs, etc. are coordinated here.

Accommodation is available for groups in Totem Park Student Residences. Daily room and board rates: $10 (sharing double room); $11 (single room). Reservations can be made through the Office of Short Courses and Conferences.

For further information contact:

Office of Short Courses and Conferences,
Department of Extension,
University of British Columbia
Phone 228-2181.

DIPLOMA PROGRAMME IN ADULT EDUCATION

The Faculty of Education and the Department of University Extension jointly offer a Diploma in Adult Education. This programme is designed for persons who wish to acquire the skills and knowledge required to organize, conduct, evaluate and generally administer programmes in adult education but who, for a variety of reasons, do not wish to pursue a graduate degree. Such persons may be, or wish to be, public school adult education directors, directors of training in business and industry and the like.

The programme is equal to approximately seven months of continuous study at the university but may be taken by a combination of summer session and extra-sessional courses or by full-time attendance at the university for one full academic year.

Further information concerning this programme may be obtained by writing to the Administrator, Diploma Programme in Adult Education, Department of Extension, The University of British Columbia, Vancouver 8.

UBC SUMMER SESSION 1971

(Accommodation is available at Totem Park residence on the U.B.C. campus. Write to the Housing Administrator, University of B.C., Vancouver 8, B.C.)

For further information, write to Summer Programme in Social Work Education, Department, University of British Columbia, Vancouver 8, B.C.

1. *Social Work in the Armed Forces*, June 18 – 30

Dr. Jacob W. Hines, Director, School of Social Work, University of Washington, Seattle, Washington.

2. *Administration of Public Welfare*, August June 23 – 24

Mr. John C. Kalapaski, A.C.S.W., Director, School of Social Work, University of Minnesota, Minneapolis, Minnesota.

Advance registration required. Deadline for both programs: May 31, 1970.

OFFICE OF SHORT COURSES AND CONFERENCES

This Office provides short faculty and community in several ways. The office facilities include, all of the physical aspects of Conferences or Short Courses held on campus. Such items as meeting rooms, meals, sleeping accommodations, and the secretarial task.

Accommodation is available for groups in Totem Park Student Residence. Daily rates are based upon: $10 (sharing double room); $11 (single room). Reservations can be made through the Office of Short Courses and Conferences.

For further information contact:

Office of Short Courses and Conferences,
Department of Extension,
University of British Columbia
Phone 228-2181

DIPLOMA PROGRAMME IN ADULT EDUCATION

The Faculty of Education and the Department of University Extension jointly offer a Diploma in Adult Education. This programme is designed for persons who wish to develop the skill and knowledge required to organize, facilitate, evaluate and generally administer programs in adult education and who, for a variety of reasons, do not wish to pursue a degree. Such persons may be, as well as, public school teachers, adult education directors, instructors in training in business and industry and the like.

The programme is equal in environmental scope to the regular degree programme in quality, but may be taken by a combination of summer session and extension courses or by full-time attendance at the university for one full academic year.

For further information concerning this programme may be obtained by writing to the Administrator, Diploma Programme in Adult Education, Department of Extension, The University of British Columbia, Vancouver 8.