SUMMER SESSION 1966

THE UNIVERSITY OF BRITISH COLUMBIA

VANCOUVER 8, BRITISH COLUMBIA

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REGULATIONS AFFECTING REGISTRATION IN CREDIT COURSES

1. Last day for registration without late fee, May 10.
2. Last day for registration with late fee, June 1.
3. Late fee for registration after May 10, $20.00.
4. Students enrolled in regular Winter Session 1965-66 will be permitted to register to June 15 on payment of the late registration fee.

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.*

FORMER STUDENTS

Obtain from the Office of the Registrar registration material and return it to this Office together with payment for fees before May 10. 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 1965-66

Forty-seventh Session: JULY 4 to AUGUST 19, 1966

The University of British Columbia

VANCOUVER 8, CANADA Vol. 51, GENERAL SERIES No. 3

Course	*Course*
	10:25 - 12:20
Asian Studies 320	Fine Arts 228, Laboratory
Biology 105, Laboratory	Fine Arts 300, Laboratory
Biology 334, Laboratory	Fine Arts 302, Laboratory
Chemistry 230, Lecture	Fine Arts 303
Classical Studies 331	Fine Arts 402, Laboratory
Classical Studies 333	Fine Arts 403
Commerce 151, Laboratory	Fine Arts 413
Commerce 261	French 110, Section 2
Commerce 376	French 210, Section 2
Economics 300	French 220
Education 301	French 302, Section 2
Education 305, Laboratory	French 304
Education 308	French 411
Education 309, Section B	Geography 100 (Lab. to be arranged)
Education 331, Section B	Geography 304
Education 332, Section B	Geology 105, Laboratory
Education 333, Laboratory	German 407
Education 390	History 202
Education 400, Section B	History 206
Education 401	History 305
Education 404, English	History 406
Education 404, Geography & S.S., July 27-August 19	History 413
Education 404, History & S.S., July 4-26	Home Economics 102/104/106, Lecture
Education 404, Home Ec., Section 2, Lecture	Home Economics 201/300, Lecture
Education 405, Section 2	Mathematics 202
Education 407, Section B	Mathematics 300
Education 411	Mathematics 320
Education 414	Mathematics 412
Education 415, Section B	Mathematics 530
Education 416	Music 302
Education 419	Music 303
Education 430, Section 2	Philosophy 100
Education 460, Section 2	Physical Education 209, 11:25-12:20 July 27-August 17
Education 462, Laboratory	Physical Education 212, 11:25-12:20 July 4-25
Education 470, Section 2	Physical Education 216, 10:25-11:20 July 27-August 17
Education 508, Mathematics	Physical Education 218, 11:25-12:20 July 4-25
Education 521	Physical Education 219, 10:25-11:20 July 27-August 17
Education 523	Physical Education 260, 10:25-11:20 July 4-August 17
Education 535	Physical Education 350, 10:25-11:20 July 4-25
Education 539, Lecture	Physical Education 462, 11:25-12:20 July 4-August 17
Education 557	Physics 101, Lecture
Education 558	Physics 300, Lecture
Education 564	Political Science 200
Education 565, Biology, Lecture, Sections 1 & 2, 11:20-12:20	Political Science 201
Education 570	Psychology 206
Education 578	Psychology 405
English 200, Section B	Russian 200
English 303, Section B	Sociology 200
English 304, Section 2	Sociology 421
English 309	Spanish 100, Section 2
English 311, Section B	Spanish 200
English 360	Theatre 301
English 365	Theatre 310
English 370	
English 380	
English 420	
English 450	
English 519	

Course	*Course*
1:30 - 3:30	
Anthropology 200	Home Economics 201/310, Laboratory 1:30-4:30, Section 1, T.Th., Section 2, M.W. (if necessary)
Asian Studies 410	Mathematics 203
Botany 302, Laboratory 1:30-5:30	Mathematics 303
Botany 330, **Lecture, M.W.F., 1:30-3:30, T.Th., 1:30-2:30**	Mathematics 308
Botany 330, **Laboratory, T. & Th.,** 2:30-5:45	Mathematics 531
Chemistry 101, Laboratory 1:30-4:30	Microbiology 200, Lecture, 1:30-3:00 Laboratory, 3:15-4:45.
Chemistry 230, Laboratory 1:30-4:30, M.W.F.	Music 326
Education 331, Section C	Music 401
Education 404, Commerce	Philosophy 210
Education 404, Guidance Section 1, 1:30-2:30 Section 2, 2:30-3:30	Physical Education 201, 2:35-4:40 July 27-August 17
Education 404, Home Economics Section 1, M.W.F., Laboratory Section 2, M.T.Th., Laboratory	Physical Education 243, 2:35-3:30 July 4-25
Education 415, Section C	Physical Education 244, 2:35-3:30 July 27-August 17
Education 490	Physical Education 250, 2:35-3:30 July 4-25
Education 491, Section 1	Physical Education 262, 1:30-2:25 July 4-August 17
Education 539, Laboratory	Physical Education 470, 1:30-2:25 July 4-August 17 (Lab. to be arranged)
Education 556	Physics 101, Laboratory
Education 560	Physics 300, Laboratory, 1:30-4:30
Education 565, Biology, Section 2 Laboratory, 1:30-4:30	Physics 429, Lecture, 1:30-2:20 Laboratory, 2:30-5:30
English 100	Political Science 301
English 200, Section C	Psychology 308
English 303, Section C	Russian 100, Lecture
English 366	Spanish 100, Laboratory, Sections 1 & 2
English 429	Zoology 301, Laboratory, 1:30-5:30, M.W.F.
English 454	Zoology 416, Laboratory, 1:30-4:30, M.T.W.Th.
Fine Arts 125	
Fine Arts 303, Laboratory	
Fine Arts 401	
Fine Arts 403, Laboratory	
Fine Arts 413, Laboratory	
Home Economics 102/104/106 Laboratory, 1:30-4:30, Section 1, M.W., Section 2, T.Th. (if necessary)	
3:45 - 5:45	
Fine Arts 401, Laboratory	Russian 100, Laboratory, 1 hr. Tues. 1 hr. Thurs.
Physical Education 251, 3:45-4:40 July 4-25	

NOTES:

Examination Schedule

8:30 a.m., Thursday, August 18—courses in which lectures scheduled during session in period 8:15-10:10 a.m., except sectioned classes.

12:00 noon, Thursday, August 18—English 100, English 200, English 303, English 304.

3:30 p.m., Thursday, August 18—courses scheduled in lecture period 1:30-3:30 p.m., except sectioned classes.

8:30 a.m., Friday, August 19—courses scheduled in lecture period 10:25 a.m.-12:20 p.m., except sectioned classes.

12:00 noon and 3:00 p.m., Friday, August 19—reserved for examinations as needed to meet special requirements, including courses in which classes are sectioned.

Physical Education Activity Courses

The examinations for courses scheduled from July 4 to July 25 inclusive will be held on July 26.

The examinations for courses scheduled from July 27 to August 17 inclusive will be held on August 18 or 19.

All classes meet initially in the War Memorial Gymnasium.

REGULATIONS AFFECTING COURSE CHANGES

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

Preliminary study is essential for each Summer Session course if the normal course content is to be covered in the time available during the summer. Prospective Summer Session students must, therefore, commit themselves to their programmes of study by the last day for registration, May 10 (June 1 for students who have paid the late registration fee).

Changes in registration, where permitted, must be made on the first day of lectures, July 4, and reported to the Registrar's Office not later than July 5. 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 oversubscription 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 9, 1966, at 3:30 p.m. Students who cannot write the examination at the University will have the opportunity of writing at one of various centres throughout the Province. In exceptional circumstances special centres will be established.

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DALE REUBART, B.A., M.M., D.M.A., Assistant Professor.
FRENCH TICKNER, B.Mus., Assistant Professor.
G. CAMPBELL TROWSDALE, B.Mus., M.Ed., Ed.D., A.R.C.T., Assistant Professor.

Philosophy

S. C. COVAL, B.A., M.A., Ph.D., D.Phil., Assistant Professor.
HOWARD JACKSON, B.Sc., Assistant Professor.
JOHN STEWART, B.S., M.S., Assistant Professor.

Physical Education

ERIC W. BANISTER, B.Sc., M.P.E., Ph.D., Dip. Phys. Ed., Assistant Professor.
STANLEY R. BROWN, Dip. of Phys. Ed., M.S., Ph.D., Associate Professor.
JAMES R. LOUNSBERRY, B.A., M.S., Ed.D., Associate Professor, Western Washington State College.
MRS. MARIAN E. M. PENNEY, B.A., M.A., Associate Professor.
MISS BONNIE PHILLIPS, B.A.(P.E.), M.Sc.(Educ.), Instructor.
JACK B. POMFRET, B.A., M.S., Associate Professor.
LIONEL PUGH, B.A., D.P.E., Assistant Professor.
MISS BARBARA SCHRODT, B.P.E., M.S., Assistant Professor.
BRIAN J. WIGHTMAN, D.L.C. (Dip.Phys.Ed.), M.S., Instructor.
H. DOUGLAS WHITTLE, B.P.H.E., M.Sc., Ph.D., Professor.
GRANT VINCENT, Dipl. Imperial Society of Teachers of Dancing, Lecturer.

Physics

FRANK L. CURZON, B.Sc., A.R.C.S., D.I.C., Ph.D., Associate Professor.
DEREK L. LIVESEY, B.A., Ph.D., Associate Professor.
ROY NODWELL, B.E., M.A.Sc., Ph.D., Associate Professor.

Political Science

WILLIAM P. IRWIN, B.A., M.A., Ph.D., Chairman, Department of Political Science, Western Reserve University.
J. A. LAPONCE, Dip. I.E.P., Ph.D., Professor.
WILLIAM E. WRIGHT, B.A., M.A., Assistant Professor.

Psychology

ROBERT D. HARE, B.A., M.A., Ph.D., Assistant Professor.

DOUGLAS T. KENNY, M.A., Ph.D., Professor and Head of the Department of Psychology.

DONALD L. G. SAMPSON, B.A., M.A., Ph.D., Assistant Professor.

E. I. SIGNORI, M.A., Ph.D., Professor.

CHARLES W. TOLMAN, B.S., M.S., Ph.D., Assistant Professor, University of Victoria.

Russian

MISS IRINA REBRIN, B.A., Instructor.

MRS. IRINA M. REID, B.A., M.A., Assistant Professor.

Sociology

DONALD W. BALL, Assistant Professor, California Lutheran College.

JEROME LAULICHT, Ph.D., Peace Research Centre, Lancaster, England.

Spanish

MRS. MARGUERITE HALL, B.A., M.A., Instructor.

MISS MARIA G. TOMSICH, B.A., M.A., Instructor.

Theatre

DONALD E. SOULE, B.A., M.A., Ph.D., Associate Professor.

KLAUS G. STRASSMANN, Ph.D., Assistant Professor.

MISS JANIE STEVENSON, L.R.A.M., L.G.S.M., A.L.A.M., Assistant Professor.

Zoology

GEORGE HEINSOHN, Ph.D., Associate Professor, Lewis & Clark College, Portland.

HENRY H. WEBBER, B.Sc.

Admission, Registration and Attendance

CREDIT COURSES

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

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

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

1. **Application:**
   (a) Students registering in the University for the first time:
   Obtain from the Registrar's Office an *Application for Admission* form. Return this, duly completed, together with certified copies of ALL University Entrance Certificates and any higher certificates possessed not later than 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 must, in addition, request the Registrar, Department of Education, Victoria, B.C., to forward to the Registrar of the University a "transfer of credit" statement certifying their status as teachers in this province, *if this has not been done previously;* this statement should be requested early in order that it may reach the University by April 1.
   (b) Students who have previously registered in the University:
   Apply by letter stating Session last attended, and programme to which admission is being sought.

2. **Registration:**
   (a) Registration material will be sent upon request; registration cards must be completed fully, including courses to be taken (and section number if section is indicated), and returned to the Registrar's Office. Students are reminded that it is their responsibility to ensure that the courses elected are applicable to their programmes.
   (b) Registration will not be considered complete unless the registration cards are accompanied by a certified cheque or a postal or bank money-order to cover the total fee assessed.
   (c) **All registrants who have not completed registration by May 10 will be assessed the late registration fee of $20.00; no registration will be accepted after June 1.**
   (d) A student who has established his eligibility for admission and who has completed registration will receive a "Library and Identification" card which must be carried by the student at all times during the Summer Session to identify him as a fully registered student.
   (e) Applicants who submit a registration booklet by May 10 but who have not also submitted the necessary fees will be assessed the late fee and issued the "Library and Identification" card on payment of fees in full including the late fee of $20.00.

3. **Restriction on registration in the Summer Session:**
   (a) A student who obtained *Fail* standing during the last Winter Session attended *may not* enrol in Summer Session.
   (b) A student in attendance at a secondary school during the previous winter *may not* enrol in the Summer Session.
   (c) Students enrolled in the Winter Session 1965-66 may be permitted to register as late as June 15 on payment of the late registration fee, if circumstances justify late acceptance.

(d) 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.

Regulations Governing Credit Courses:

1. The maximum credit for Summer Session work in any one calendar year is 6 units.
2. Credit will not be given toward the B.A. or B.Sc. degrees for courses in Commerce (except 151 and 371), Education, Home Economics, or Physical Education. In the departments of English, Fine Arts, Music, and Theatre some courses are useful for credit only toward the B.Ed. degree.
3. Students must attend regularly the classes in a course for which they register. Those whose absences from a course are considered excessive by the Instructor will not be credited with attendance in that course.
4. A student will be granted a supplemental examination in a subject which he has taken during the Summer Session provided (i) he has written the final examination and has obtained a mark of not less than 40% and (ii) he has obtained 3 units of credit in the session. Supplemental examinations for summer session students will be held in December 1966. Supplemental privileges will not be granted students who fail the laboratory work of science or industrial arts courses.
5. Except for English 100 and English 200 no course may be repeated more than once.

GRADUATION

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

Students who complete degree requirements will be given a statement indicating their status, and may, if they so desire, obtain their degree diplomas in the Fall. The Congregation ceremony will be held in early June, 1967.

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.

All fees are due and payable at time of registration.

A fee of $20.00 for "Late Registration" will be charged all students registering for credit courses after May 10.

Registration will not be considered complete until fees are paid.

Scale of Fees

Tuition:

3-unit course	$100.00
2-unit course	68.00
1½-unit course	50.00
1-unit course	34.00
½-unit course	17.00
Summer Session Association fee	2.00
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 22. In the computation of refunds prior to this date an amount equal to one-fifth of the course fees will be charged for each week or part of a week prior to the date on which the student notifies the Registrar officially of his cancellation of registration or his withdrawal from the University. A student who cancels registration before classes begin will be refunded all but $10.00 of fees paid.

Special Fees

For Auditors ..... One-half regular tuition fee

NOTES—

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

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

Supplemental Examination, per paper

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

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

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

NON-CREDIT COURSES

Registration Procedure

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

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

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

Students seeking credit for Extension courses where applicable must register through the Registrar's Office before May 10.

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 Dean of Inter-Faculty and Student Affairs, must be received by the University not later than May 31.

The Summer Session Association Loan Fund

This fund, established in 1947, provides loans for students proceeding to a degree by summer session. A limited number of loans, to a maximum of $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 Dean of Inter-Faculty and Student Affairs. Loans cannot be made until after the beginning of summer session, but those who will require loans may write in advance to determine whether they are eligible.

The Dr. H. T. J. Coleman Scholarship

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

Gilbert Tucker Memorial Summer Session Prize

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

The Summer Session Association Prizes

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

Summer Session Association Prize for Graduate Students

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

Scholarships for Summer School of the Arts

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

SUMMER SESSION ASSOCIATION

1966 Executive Committee

President - - - - - - Tom Walters
Past President - - - - Don A. Ross
1st Vice-Pres. - - Sheila Bowyer-Smith
Secretary - - - A. A. (Bob) Ferguson
Treasurer - - - - - - Howard Cross
Athletics - - - - - - - Bob Blount
Concert - - - - - - - Doris Standly
Dance - - - - Sheila Bowyer-Smith
Resolutions - - - - Frank McPhalen
Bulletin - - - - - - - Peter Barrett
Advertising - - - - Nobby Sakiyama
Shop Teachers' Rep. - Ken Matsuzaki
Members at Large - Gwen Stevenson, Bill Lucey, Harry Kannigan, Trevor Jenkins.

Free 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, also to each activity.

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

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

Schedule of Activities

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

Activities will commence the first week of Summer Session.

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

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

Additional information regarding the activities sponsored by the Summer Session Association may be obtained from the Summer Session Association Office.

Summer Chorus

Students are invited to participate in a Summer Chorus. This group will meet

in the Auditorium of the Education Building on Tuesdays and Thursdays at 12:30. Bring lunch.

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

TRAFFIC AND PARKING REGULATIONS

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

Registration:

Faculty, staff and students who have not already registered their automobiles, motorcycles and scooters for 1965-66 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, 1801 Wesbrook Crescent, and registration must be completed by July 8, 1966.

Day Parking:

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

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

Fees:

Faculty and staff automobiles	$5.00
Faculty and staff motorcycles or scooters	1.25
Student automobiles	2.50
Student motorcycles or scooters	1.25

Visitors' Pay Lots:

First hour	10c
Second hour	15c
Each additional hour	25c
up to a maximum of	75c per day
Meters ½ hour to 2 hours	Use NICKELS ONLY

Night Parking:

Regulations come into force at 5:00 p.m. Monday through Friday and at 12:30 p.m. Saturday. Pay parking lots are available for visitors, but drivers may also park free at night in any other designated parking lot except in:

(a) Lots, meters and individual parking spaces which are signed restricting parking by night as well as by day.

(b) The Faculty Club and Graduate Centre lots reserved for members and their guests.

(c) Lots which are not the property of the University, such as the Theological College parking lots.

Short Course Students:

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

THE UNIVERSITY BOOK STORE

The book store was established for the convenience of the students, and has effected a considerable saving to the students in time and money. It is prepared

to supply all the textbooks required for the various courses offered in the University, also such articles as note books, loose-leaf books, fountain pens, drawing paper, and instruments.

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

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

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

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

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

LIBRARY INSTRUCTION

It is recommended that all students new to this campus attend an orientation lecture given by members of the Library staff. The lecture, which will be illustrated by slides, will provide an introduction to the Library and information on finding books and periodical articles. The lecture will be given in Buchanan 106 at the following times:

Monday, July 11th and Tuesday, July 12th at 10:25 a.m. and 1:30 p.m.

UNIVERSITY HEALTH SERVICE

Wesbrook Building

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

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

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

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

HOUSING ADMINISTRATION

General Information

Accommodation is available in permanent residences for students attending Summer Session.

Totem Park Residences will be made available for single applicants and married students without children. Families with children will be accommodated at Dorothy Mawdsley House, Lower Mall. *Non-academic courses and work shop participants* will be accommodated together with Summer Session students.

Dates Rooms Available

From July 4 to August 19 inclusive.

Students may be accommodated from July 3, in the evening, and must vacate not later than 1 p.m. August 20.

Students who fail to take up accommodation reserved for them will have $15.00 confiscated from their Board and Residence payment.

Only room and board arrangements are available.

Payment

In order to make your assignment effective, payment must reach the Accounting Department of the University not later than June 17, 1966. Only certified cheques or money orders are accepted. *Post dated cheques are not accepted.*

Cheques should be made payable to the University of British Columbia.

Meals

Meal passes will be available at the Residence Clerk's office of the area, provided payment has been made beforehand, and will cover breakfast from July 4 to dinner August 19 inclusive. No meal pass is provided for children under eighteen months of age. No cooking is permitted anywhere in the residences.

Lunch and dinner may be purchased for cash on July 3 in the residence dining hall. Breakfast may be purchased for cash on August 20.

Private Married Accommodation — Off Campus

A list of accommodations offered for married people with or without children during the summer or for the duration of Summer Session is available from the Housing Administration Office. All arrangements must be made directly between the interested parties. The Housing Office does not act as an agent for either contracting parties.

Parking

Summer Session stickers will be available from the Traffic Office. No cars are permitted to park in the University area without proper parking stickers. No house trailers or boat trailers are permitted on campus. There are no house trailer facilities in the University area.

Facilities in Residences

Coin operated washers and dryers are available within the area. Limited storage facilities for trunks and personal effects are available also.

Rooms are furnished but you are asked to bring your own towels and soap.

Canteen facilities are available and pay phones are on every floor.

Married Accommodation for Families with Children at Dorothy Mawdsley House, *Lower Mall*

Dorothy Mawdsley House is a four-storey building, normally used by single women students. It has no special facilities for children and there are no playgrounds in the vicinity. Parents are to assume full responsibility for their children and for any damage caused by them.

Since we do not provide cribs or the means of heating or refrigeration of baby food and since cooking is prohibited, the University does not encourage the bringing of very small children.

Each person above eighteen months of age must be on a meal pass and eat in the central dining hall.

Rates

For single Students attending Summer Session

In Single Room	$135.00
In Double Room	$127.75

Rates for Married Accommodation — Room and board per person

Adults and children 12 years and over — In Double Room	$127.75
Children under 12 years of age and over 5 years	$ 63.88
Children eighteen months and under	$ 31.94

For non-academic short courses and work shops

Participants in this category will be charged on a daily conference rate. Rates include room and board.

In Single Room ..... $8.00 per day

In Double Room ..... $7.00 per day

There will be no refund for those leaving during the last seven days of Summer Session. There is no refund for meals not taken on meal passes.

Inquiries and Application

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

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

TEACHER CERTIFICATION

All enquiries concerning certification must be directed to the Registrar, Department of Education, Victoria.

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

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

In general to fulfil course requirements for the Permanent E.B. certificate teachers whose training was taken in a B.C. Normal School, 1955-56, or who completed or commenced professional training in the Faculty of Education prior to July 1962, must complete six units of credit in the Third Year in an Education programme (either Elementary or Secondary) or Second Year in a programme leading to some other degree. Teachers who completed B.C. Normal School training prior to July 1955 may continue to qualify for the permanent Elementary Basic certificate under the regulations applicable to them. If in doubt, consult the Registrar, Department of Education, Victoria. Students who entered the Faculty of Education after July 1962 for basic teacher training are required to complete Elementary A requirements for permanent certification. Questions concerning the number of courses required by teachers who do not clearly fit the Department's certification regulations must be answered by the Registrar, Department of Education, Victoria.

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

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

Full Second Year — Elementary A
Full Third Year — Elementary B
Full Fourth Year — Professional C
Full Fifth Year — Professional Basic

Teachers with an acceptable year of professional training may proceed to the Bachelor of Arts degree and qualify for certificates as follows:

Full First Year — Elementary B
Full Second Year — Elementary A

Full Third Year — Professional C
Full Fourth Year — Professional Basic

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

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

Attention is drawn to course requirements for the degree programmes as prescribed in the Calendar of the University. Enquiries concerning Education course or degree requirements should be directed to the Records Office, Faculty of Education, The University of British Columbia, Vancouver 8, B.C.

APPLICATION FOR TEACHER CERTIFICATION

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

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

EMERGENCY SUMMER SESSION TEACHER TRAINING PROGRAMME FOR HOME ECONOMICS GRADUATES

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

Persons holding an acceptable Bachelor of Home Economics degree may complete teacher-training for the Professional Basic certificate through *three summer sessions* of prescribed work totalling 18 units. All work must be completed in residence through summer session. Extra-sessional courses may not be credited. Those enrolling for their first summer session of work in 1966 are expected to complete the second and third summers in 1967 and 1968.

1. *Home Economics graduates enrolling for the first summer session are required to take the following courses:*
   (1) Education 404—Curriculum and Instruction (Home Economics) 3 units
   (2) Education 410—The Organization and Administration of B.C. Schools ..... 1½ units
   (3) Education 435—Introduction to Evaluation ..... 1½ units
2. *Home Economics graduates who have completed one summer session of the required courses should enrol for their second session in the following courses:*
   (1) Education 301—Educational Psychology ..... 3 units
   (if not completed previously) and
   (2) One of the following—
   Education 332—Psychology of Adolescence ..... 3 units
   Education 411—Foundations of Vocational Planning ..... 3 units
   Education 461—Diagnostic and Remedial Teaching ..... 3 units
   Education 470—Educational Sociology ..... 3 units
   Education 410—The Organization and Administration of B.C. Schools ..... 1½ units
   Education 435—Introduction to Evaluation ..... 1½ units
   (if not completed previously)

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

(1) Education 301—Educational Psychology ..... 3 units
(if not completed previously) and

(2) One of the following—
Education 332, 411, 461, 470 ..... 3 units

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

TEACHERS WITH ELEMENTARY BASIC CERTIFICATES TRAINING TO TEACH HOME ECONOMICS

Summer session courses available in 1966 for prospective teachers in Home Economics holding Elementary Basic certificates are:

Home Economics 102, 104, 106 ..... 3 units
Home Economics 201, 310 ..... 3 units
Home Economics 421 ..... 3 units
Education 404 (Home Economics) ..... 3 units

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

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

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

In order that E.B. teachers starting on a three-year summer session programme may plan their selection of courses, the probable offerings for 1967 are as follows:

H.E. 101-403, 105, 300
Ed. 404 (H.E.)

SPECIAL NOTE FOR PHYSICAL EDUCATION TEACHERS-IN-TRAINING

Training programmes offered for teachers of Physical Education:

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

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

Those commencing training for the Elementary B certificate who wish to qualify in Physical Education may complete ten of the fifteen units required for a Physical Education major by undertaking 4 units during the first two years of teacher-training, plus 6 units of Summer Session work, and may complete the full 15 units needed for the Physical Education major with a further Summer Session. Persons already holding an Elementary C certificate may find it possible to include one or more 3-unit courses in Physical Education towards the Elementary B certificate and then continue with further training as outlined in paragraph two above.

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

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 next summer

B. Proposed for alternate years.

C. Proposed for this summer — future offerings indefinite.

Courses not offered in 1966 but considered for 1967 or 1968 are listed under Departments.

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

ANTHROPOLOGY

200. Introduction to Anthropology. (A)

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

Ten hours lectures a week—3 units.

Mr. Kasdan.

400. Readings in Theory.

A study of the principles used in the analysis of culture, with special reference to the history of anthropological thought and the points of view represented in the classical monographs.

Ten hours lectures a week—3 units.

Mr. Burridge.

ASIAN STUDIES

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

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

Pre-reading recommended: L. C. Goodrich, *A Short History of the Chinese People.* (Harper and Bros., N.Y., 1963-paperback); Derk Bodde, *China's Cultural Tradition,* (Rinehart & Co., N.Y., 1957), paperback.

Textbooks: Latourette, *The Chinese, Their History and Culture.* (Macmillan, N.Y.); FitzGerald, *China: A Short Cultural History,* Praeger, N.Y., 1965 paperback.

Ten hours lectures a week—3 units.

Mr. Liu.

410. The History of India, 1526-1947. (C)

The major political, economic, and social developments in the Indian subcontinent from the Mughal period to the end of British rule, with preliminary treatment of the ancient and medieval periods.

Pre-reading recommended: Spear, *India: A Modern History,* Chapters I-IX; P. Griffiths, *Modern India,* Ernest Benn, London, 1962.

Textbooks: Spear, *India: A Modern History,* Univ. of Mich. Press, 1961; Davies, *An Historical Atlas of the Indian Peninsula,* Oxford, 1961.

Ten hours lectures a week—3 units.

Mr. Spellman.

Note: Asian Studies 330 is proposed for 1967.

BIOLOGY

105. Principles of Biology. (A)

The evolutionary development of biological systems and the adaptation of

living things to their environment emphasizing the unity and diversity of living things.

Limited to 50 students.

Textbook: Simpson and Beck, *Life—An Introduction to Biology,* Harcourt, Brace and World Inc., 2nd ed.

Credit will not be given both for this course and Biology 100 (Grade 13).
Eight hours lectures and twelve hours laboratory a week—3 units.
Mr. Taylor.

334. Fundamental Genetics. (C)

An introduction to the basic principles of heredity, with emphasis on the physical and chemical structure and function of genetic material.

Textbook: SRB, Owen and Edgar, *General Genetics,* Freeman, 2nd ed.
Five hours lectures and ten hours laboratory a week—3 units.
Mr. Spieler.

BOTANY

302. Morphology & Taxonomy of Seed Plants. (C)

The principles and practices of seed-plant taxonomy emphasizing the use of morphological and evolutionary features in classification and identification.

Pre-requisite: Biology 105, Botany 105 or an equivalent course.
Textbook: Lyman Benson, *Plant Classification,* Heath & Co.
Eight hours lectures and sixteen laboratory hours a week—3 units.
Miss Beamish.

330. Plant Physiology. (C)

Introduction to physiological processes in plants, including photosynthesis, transpiration, absorption, enzyme and hormone action, and growth. Chemistry 230 is recommended but not required.

Eight hours lectures and six hours laboratory a week—3 units.
Mr. Ormrod.

CHEMISTRY

101. General Chemistry. (A)

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

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

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

Ten hours lectures and twelve hours laboratory a week—3 units.
Mr. Frost, Mr. Walker.

230. Organic Chemistry (previously 300). (A)

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

Prerequisite: Chemistry 101 or 102.

Textbooks: Morrison and Boyd, *Organic Chemistry,* Allyn and Bacon, 1959; Marmor, *Laboratory Guide for Organic Chemistry,* Heath & Co., 1964.
Mr. McCapra.

Note: Chemistry 310 is proposed for 1967.

CLASSICAL STUDIES

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

Textbook: A. A. Trever, *History of Ancient Civilization,* 2 Vols., Harcourt Brace.

Ten hours lectures a week—3 units.

Mr. Lenardon.

333. The Roman Empire. (B)

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

Prerequisite: Classical Studies 331.

Pre-reading recommended: Penguin translations of Vergil, *Aeneid;* Tacitus *Annals, Histories;* Suetonius, Caesars; Pliny, *Letters.*

Textbooks: A. E. R. Boak and W. G. Sinnigen, *A History of Rome to A.D. 565,* Macmillan, 5th ed., 1965; Lewis and Reinhold, *Roman Civilization: A Sourcebook,* Vol. II, *The Empire,* Harper Torchbooks, 1966.

Ten hours lectures a week—3 units.

Mr. Guthrie.

COMMERCE

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

101. Shorthand Techniques, Practice and Methods. (C)

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

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

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

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

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

Miss Brown.

151. 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.

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

Prerequisite: at least Second Year standing.

Ten hours lectures a week—3 units.

261. Fundamentals of Marketing. (C)

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

Textbook: Jerome McCarthy, *Basic Marketing: A Managerial Approach,* Richard D. Irwin, Revised Edition 1964.

Ten hours lectures a week—3 units.

Mr. Webster.

331. 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; partnership (Partnership Act); and company law (B.C. Companies Act); examination of selected legal and commercial documents.

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

Casebook: Carrothers, *U.B.C. Cases and Materials on Commercial Law.*

References: Smyth and Soberman, *The Law and Business Administration in Canada,* Prentice-Hall, First Edition; Anson, *Contracts;* Sutton & Shannon, *Contracts.* Students should buy the Casebook and *The Law and Business Administration in Canada.*

Ten hours lectures a week—3 units.

Mr. Davis.

371. Business Finance. (A)

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

Prerequisites: Commerce 151, Economics 200.

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

376. Personal and Business Finance. (A)

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

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

Textbook: Reddin, W. J., *Successful Spending, Saving, and Investing,* McGraw-Hill, First Edition.

Ten hours lectures a week—3 units.

Note: Commerce 201 and 391 are proposed for 1967; Commerce 200 and 252 are proposed for 1968.

CREATIVE WRITING

Creative Writing 201 not offered in 1966; proposed for 1967.

ECONOMICS

200. 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.

Prerequisite: First Year standing.

Textbooks: J. J. Deutsch et. al., *The Canadian Economy, Selected Readings,* Macmillan, Rev. ed., 1965; P. A. Samuelson, *Economics,* 6th ed. McGraw-Hill.

Ten hours lectures a week—3 units.

Mr. Will.

300. 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.

Prerequisite: Economics 200.

Pre-reading recommended: Samuelson, *Economics,* 6th ed., (Parts 1, 2, 3, 4.)

Textbooks: Watson, *Price Theory and Its Uses,* Houghton Mifflin; Peterson, *Income, Employment and Economic Growth, W.* W. Norton Co. Inc.

Ten hours lectures a week—3 units.

Mr. Boyd.

321. Economic History of Canada. (C)

Special emphasis on the growth of the Canadian economy in relation to natural resource development, changing market conditions, industrialism, communications and technology.

Pre-reading: Smiley (Ed.), *The Rowell/Sirois Report,* Book I, Paperback, Carleton Library Series; W. T. Easterbrook and Hugh G. J. Aitken, *Canadian Economic History,* Part I (Chapts. 1-7).

Textbook: Easterbrook and Aitken, *Canadian Economic History.*

Ten hours lectures a week—3 units.

Mr. Rae.

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 or have written permission from the Dean.

305. 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, grades 1-12.

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

Prerequisite: Ed. 205 or equivalent.

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

Mrs. Forsyth.

307. Music Education. (A)

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

Prerequisite: Education 207 or Normal School Diploma.

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

Ten hours lectures a week—3 units.

Mrs. Hayden, Mr. Rose.

308. 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.

Prerequisite: Education 209.

Ten hours lectures a week—3 units.

Mr. Watt, Miss Wiseman.

309. General Science for Elementary and Junior High School Teachers. (A)

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

Limited to 28 students in each of six sections.

Prerequisite: Education 201 or equivalent.

Pre-reading recommended: Krauskopf and Beiser, *The Physical Universe,* Chapters 1-11 inclusive, 14, 15, 18.

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

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

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

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

Mrs. Forster, Mr. Gillespie, Mr. Jorgensen, Mr. Krayenhoff, Mr. Webster, Mrs. Woodrow.

331. Psychology of Childhood. (A)

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

Dinkmeyer, *Child Development,* Prentice-Hall, 1st ed.

Ten hours lectures a week—3 units.

Mr. Bain, Mr. Cartwright, Mrs. Golledge, Mr. Kelsey.

332. Psychology of Adolescence. (A)

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

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

Ten hours lectures a week—3 units.

Mr. Fiedler, Mr. Oldridge, Mr. Walters.

333. (3) Curriculum and Instruction in Pre-School (Nursery schools and Kindergartens). (A)

Planning and developing an 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.

Textbooks: Read, *The Nursery School,* (Saunders, Third Edition); Heffernan and Todd, *The Kindergarten Teacher,* (D. C. Heath and Co., 1960 Edition).

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

Mrs. Borden.

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

Observation alternates with seminar. Students should not register for any other course in the morning.

336. Modern Theories of Pre-School Education. (B)

A theory course intended for teachers and administrators interested in pre-school and primary education.

Students will take this course in conjunction with the A.C.E.T. Workshop on "The Educationally Deprived Child". The course will open on July 27 and continue until August 19. Students should not register for any other course.

Two hours per day, July 27 - August 2. All day sessions at Workshop. Lectures resume August 15 - 19—3 units.

Miss Baxter.

390. Librarianship: Sources of Information (Formerly 490). (A)

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

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

Ten hours lectures a week—3 units.

Mr. Albrecht, Mrs. Coggin.

400. 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.

Ten hours lectures a week—3 units.

Mr. Coombs, Mr. Elliott.

401. Theoretical Bases of Educational Psychology. (C)

The psychological basis of classroom learning and teaching, with emphasis upon the verbal and reasoning processes.

Prerequisite: Education 102 or 301 and/or consent of instructor.

Ten hours lectures a week—3 units.

Mr. Schwahn.

404. Curriculum and Instruction in Specific Secondary School Subjects.

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

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

Commerce. (B)

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

Textbook: Tonne, Popham, Freeman, *Methods of Teaching Business Subjects,* Gregg Division, McGraw-Hill, Third Edition.

Ten hours lectures a week—3 units.

Mrs. Cameron.

English. (A)

Prerequisite: Three senior courses in English.

Pre-reading: B.C. Programme of Studies for English in secondary grades, 1964 and 1965.

Textbook: Loban, Ryan, and Squire, *Teaching Language and Literature,* Harcourt, Brace, and World, Inc., 1961.

Ten hours lectures a week—1½ units.

Mr. Bertram.

Geography and Social Studies. (A)

Limited to 50 students.

Prerequisite: Geography major or instructor's written consent.

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

Pre-reading recommended: *New Viewpoints in Geography* (National Council for the Social Studies), James, P., ed. Students enrolling in this course should write to Professor F. C. Hardwick, Faculty of Education, for a list of pre-reading.

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

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

Mr. Carter, Mr. Curtis, Mr. McWhannel.

Guidance. (A)

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

Additional reading required during course: Stein and Auld, *The Guidance Worker; Basis for a Profession;* R. H. Mathewson, *Guidance Policy and Practice,* (3rd), Harper & Row, 1962.

Five hours lectures a week—1½ units.

Mrs. Thompson.

History and Social Studies. (A)

Prerequisite: History major or instructor's written consent.

Pre-reading required: Students enrolling in this course should write to Professor F. C. Hardwick, Faculty of Education, for a list of pre-reading.

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

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

Mr. Batho.

Home Economics. (A)

Curriculum and Instruction.

Limited to 30 students.

Section 1—Experienced teachers holding Elementary Teaching certificates who are preparing to teach Home Economics.

Section 2—Graduates in Home Economics without teaching experience.

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

Miss West.

Mathematics. (A)

Textbook: Davis, *The Teaching of Mathematics,* Addison-Wesley Publishing Co.

Ten hours lectures a week—1½ units.

Mr. MacLean.

405. Curriculum and Instruction in Primary Grades—Advanced. (A)

Current research findings; trends and problems dealing with personality development, classroom management, the language arts, arithmetic, science, social studies, music and art, in the primary grades, with reference to readiness in the kindergarten.

Prerequisite: Education 203, 204 or Normal School training.

Ten hours lectures a week—3 units.

Mrs. Birkett, Miss McRae.

407. Introduction to the Study of Exceptional Children. (A)

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

Pre-reading recommended: Kirk, *Educating Exceptional Children,* Houghton Miflin, 1962.

Textbook: Dunn, *Exceptional Children in the Schools,* Holt, Rinehart, Winston, 1963.

Ten hours lectures a week—3 units.

Mr. Garfunkel, Mr. Kendall, Mr. McGann.

408. Teaching the Mentally Superior. (B)

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

Ten hours lectures a week—3 units.

Mr. Sutherland.

411. Foundations of Vocational Planning. (A)

Theories of vocational development, occupational information and trends, counselling and the process of vocational choice. Laboratory and field experience will be included.

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

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

Ten hours lectures a week—3 units.

Mr. Norton

412. 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*; Kidd, J. R., Editor, *Learning and Society.*

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

Ten hours lectures a week—3 units.

Mr. Whaley.

414. 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 each section.

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

Ten hours lectures a week—3 units.

Mr. Cameron, Mr. Pollock.

415. Developmental Reading. (A)

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

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

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

Textbook: Russell, *Children Learn to Read,* (Ginn, Fourth Edition), Elementary Division; McCullough, Strang and Traxler, *Problems in the Improvement of Reading,* McGraw-Hill, Revised, Secondary Division.

Prerequisite to Education 462, *Remedial Reading.*

Ten hours lectures a week—3 units.

Mr. Buckley, Mr. Campbell, Mrs. Juhasz.

416. Speech Education (A)

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

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

Ten hours lectures a week—3 units.

Miss Elliott.

417. Educating the Slow Learner and the Emotionally Handicapped. (A)

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

Prerequisite: Education 407.

Textbooks: F. J. Schonell, *Backwardness in the Basic Subjects,* Oliver and Boyd

(Toronto), 1962; N. Kephart, *Slow Learner in the Classroom,* Chas. E. Merrill Book Co., 1960.

Ten hours lectures a week—3 units.

Mr. McPherson.

419. 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.

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

Ten hours lectures a week—3 units.

Miss Washington.

430. History of Education. (A)

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

Pre-reading recommended: Robert H. Beck, *A Social History of Education,* (Englewood Cliffs, N.J.: Prentice-Hall, 1965) paper-back.

Textbook: As for pre-reading.

Ten hours lectures a week—3 units.

Mr. Berry, Mr. Dolan.

460. An Introduction to Educational Administration. (C)

Textbook: Campbell, *Introduction to Educational Administration,* (Allyn and Bacon, Second Edition, 1962).

Reference: *Selected Readings in Educational Administration,* edited by Hack et al., Allyn and Bacon, 1965.

Ten hours lectures a week—3 units.

Mr. Brown, Mr. Smith.

462. Remedial Reading. (A)

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

Limited to 20 students.

Prerequisites: Education 415 or equivalent.

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

Textbook: Ruth Strang, *Diagnostic Teaching of Reading,* McGraw-Hill, 1964.

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

Mrs. Rizer.

470. Educational Sociology. (A)

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

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

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

Ten hours lectures a week—3 units.

Mr. Pedersen, Mr. Swift.

490. Book Selection and Evaluation. (B)

Criteria; aids; sources; reading interests; individual and group reading guidance.

Limited to 30 students.

Ten hours lectures a week—3 units.

Mr. Stubbs.

491. The Acquisition and Organization of Library Materials. (A)

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

Limited to 25 students.

Ten hours lectures a week—3 units.

Miss Rice.

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

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

Prerequisite: Education 204 or 404.

History and Geography. (B)

Prerequisite: History or Geography Major or instructor's written consent.

Pre-reading required: Students enrolling for this course should write to Professor F. C. Hardwick, Faculty of Education, for a list of pre-reading.

Textbooks: Burston and Green, *Handbook for History Teachers,* Methuen, 1962; J. O. M. Brock, *Geography: Its Scope and Spirit* (Toronto, Nelson or U.B.C. Bookstore); W. D. Pattison, *The Four Traditions of Geography* (Pamphlet, U.B.C. Bookstore, 25c).

Ten hours lectures a week—3 units.

Mr. Batho, Mr. Tomkins.

Mathematics. (A)

Research, thought and practice of Mathematics education at the secondary level.

Ten hours lectures a week—3 units.

Mr. Horne.

521. Advanced Seminar in Philosophy of Education. (B)

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

Prerequisite: Education 400 or Philosophy 100 or consent of instructor.

Pre-reading recommended: Peters, *Authority, Responsibility and Education;* Peters, *Education as Initiation.*

Ten hours lectures a week—3 units.

Mr. Peters, Mr. Savery.

523. Comparative Education. (A)

Comparative analysis of the social economic and political determinants of the organization and administration of selected foreign educational systems.

Limited to 30 students.

Prerequisites: Education 400, 430 or 410.

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

Ten hours lectures a week—3 units.

Mr. Katz.

535. Evaluation (A)

Basic principles; tests and other instruments for measuring instruction.

Prerequisite: Education 435, or 301 (Learning and Evaluation).

Pre-reading recommended: Review of elementary descriptive statistics.

Textbooks: G. S. Adams, *Measurement and Evaluation in Education, Psychology, and Guidance,* Holt, Rinehart, and Winston, 1964; B. S. Bloom (Ed.), *Taxonomy of Educational Objectives, Handbook I: Cognitive Domain;* David McKay Co., Paperback, 1956.

Ten hours lectures a week—3 units.

Mr. McKie.

539. Educational Television. (A)

An extensive study of the theory, practice and evaluation of educational television.

Prerequisite: Education 414 or consent of the instructor.

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

Mr. Whitinger.

556. Administration of School Systems. (A)*

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

Education 556/560 should be taken as a 3-unit course.

Prerequisite: Education 557 or 558 or permission of instructor.

Five hours lectures a week—1½ units.

*See Note 2 on page 39.

557. Administration and Supervision of the Elementary School. (A)*

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

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

Ten hours lectures a week—3 units.

*See Note 2 on page 39.

558. Administration and Supervision of the Secondary School. (A)*

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

Ten hours lectures a week—3 units.

Mr. Downey.

*See Note 2 on page 39.

560. Theories and Principles of Educational Administration. (A)*

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

Education 556/560 should be taken as a 3-unit course.

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

Five hours lectures a week—1½ units.

*See Note 2 on page 39.

564. Research Problems in Curriculum Organization. (B)

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

Prerequisite: Education 204 or 404.

Ten hours lectures a week—3 units.

565. Special Course in a Subject Matter Field.

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

For credit only in the Faculty of Education.

Biology. (A)

Student investigations of the following blocks: Microbes: their growth, nutrition, and interaction; regulation in plants by hormones; animal growth and development; field ecology; and genetic continuity.

(Recommended for biology teachers.)

Pre-reading required: Schwab, *Biology Teachers' Handbook,* Chapters 5-13 inclusive.

Textbooks: Schwab, *Biology Teachers' Handbook,* John Wiley and Sons, Inc., New York; Florence Moog, *Animal Growth and Development,* Copp Clark Co., 1963, ($1.70); Edwin A. Phillips, *Field Ecology,* Copp Clark Co. 1964, ($2.15); Alfred S. Sussman, *Microbes: Their Growth, Nutrition, and Interaction,* Copp Clark Co., 1964, ($2.15); W. P. Jacobs, and C. E. LaMotte, *Regulation in Plants by Hormones,* Copp Clark Co., 1962, ($2.15); A. G. Richards, *The Complementarity of Structure and Function,* Copp Clark Co., 1963 ($1.70); Glass, *Genetic Continuity,* Copp Clark Co. (if available).

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

Mr. Brough, Mr. Wade.

569. Administrative and Supervisory Problems of the District Junior or Community College. (B)

The history, philosophy, organization and administration of the two-year district or regional community college. Admittance: consent of the instructor.

Textbooks: Medsker, *The Junior College,* McGraw Hill, 1960; Blocker, Plummer, Richardson, *The Two-Year College—A Social Synthesis,* Prentice-Hall, 1965.

Ten hours lectures a week—3 units.

Mr. Dennison.

570. Advanced Seminar in Educational Sociology. (B)

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

Prerequisite: Education 470 or consent of instructor.

Ten hours lectures a week—3 units.

Mr. London.

574. Supervision of Reading. (C)

Curriculum analysis and planning. Implications for the administrator, the consultant and supervisor of reading.

Prerequisite: Consent of instructor.

Pre-reading required: Review of a basic text on Developmental Reading such as, Russell, *Children Learn to Read.*

Textbooks: Newton, *Reading in Your School,* McGraw-Hill; Strang and Lindquist, *The Administrator and the Improvement of Reading,* Appleton-Century Crofts; H. Allen Robinson, *Guiding the Reading Programme,* Science Research Associates (Canada) Ltd.

Limited to twelve students.

Ten hours lectures a week—3 units.

Mr. Covell.

578. Advanced Seminar in Theories of Guidance and Counselling. (A)

Theory, research, techniques and ethical practices in counselling .

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

Pre-reading: Goldman, *The Use of Tests in Counseling,* Appleton-Century-Crofts, 1961; Wrenn, *The Counselor in a Changing World,* APGA, 1962.
Textbooks: Stefflre, *Theories of Counseling,* McGraw-Hill, 1963; McGowan and Schmidt, *Counseling Readings in Theory and Practice,* Holt, Rinehart, Winston, 1962; Tyler, *The Work of the Counselor,* Appleton-Century-Crofts, 1961.

Ten hours lectures a week—3 units.

Mr. Zingle.

581. Methods of Educational Research. (C)

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

Open to Master's degree candidates only.

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

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

Five hours lectures a week—1½ units.

Mr. Stein.

582. Statistics in Educational Research I. (C)

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

Prerequisite: Education 482 or consent of instructor.

Open to Master's degree candidates only.

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

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

Five hours lectures a week—1½ units.

Mr. Stein.

Note: Education courses not offered in 1966 but planned for 1967 and 1968:

1967: 306, 334, 404 (French), 404 (P.E.), 409, 428, 461, 481, 482, 492, 508 (Reading), 508A (Math.), 519, 522, 523, 540, 551*, 552*, 559/560, 561, 562/563, 565 (English), 571, 577, 585.

1968: 336, 461, 481, 482, 492, 508 (Science), 519, 524, 551, 552, 561, 572, 575, 579, 584, 585.

***Note 1.** Ed. 551 and 552 are new courses required for M.A. and M.Ed. in educational administration.

2. Ed. 556 when taken in Summer Session will be offered with Ed. 557 for elementary school administration majors and with Ed. 558 for secondary school administration majors. This sequence will start in 1967.

INDUSTRIAL EDUCATION

352. Mechanical Drawing.

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

Limited enrolment.

Prerequisite: Education 150.

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

Twenty hours laboratory a week—3 units.

Section 1: 8 a.m. - 12 noon; Mr. Combe.

Section 2: 1 p.m. - 5 p.m.; Mr. Kiewitz.

B.C. Vocational School, Burnaby, Building 7.

353. Design in Industrial Education.

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

Limited enrolment.

Prerequisite: Education 150.

Twenty hours laboratory a week—3 units.

Section 1: 8:00 a.m. - 12 noon; Mr. Matoush.

Section 2: 1:00 p.m. - 5 p.m.; Mr. Larter.

B.C. Vocational School, Burnaby, Building 7.

354. Oxy-Acetylene and Arc Welding.

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

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

Prerequisite: Education 150.

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

Twenty hours laboratory a week—3 units.

Mr. Held.

Limited to 15 students.

8:00 a.m. - 12 noon.

Welding Shop, Vancouver Technical School.

356. Electronic Fundamentals.

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

Limited to 12 students.

Prerequisite: Education 150.

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

Central Secondary School (Burnaby), Electronics Laboratory, 8:00 a.m. to 12:00 noon.

Twenty hours laboratory a week—3 units.

Mr. Berkey.

450. Technology of Woodworking II.

Modern methods and design in cabinet-making; veneering; wood-finishing; care and maintenance of woodworking machinery.

Limited enrolment.

Prerequisites: Education 150, Education 350.

Textbooks: G. L. Steele, *Fibreglass Projects and Procedures,* McKnight and McKnight; C. Newell, W. F. Haltrop, *Coloring, Finishing and Painting of Wood,* Bennett.

Twenty hours laboratory a week—3 units.

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

Section 2: 1:00 p.m. - 55:00 p.m., Mr. Merriam.

B.C. Vocational School, Burnaby, Building 3.

451. Technology of Metalwork II.

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

Limited enrolment.

Prerequisites: Education 150, Education 351.

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

Textbooks: Holbrook L. Horton (editor), *Machinery's Handbook,* Industrial Press, 16th edition; Straper, *Elementary Metallurgy & Metallography* (paperback).

Twenty hours laboratory a week—3 units.

Section 1: 8 a.m. - 12 noon; Mr. Trant.

Section 2: 1 p.m. - 5 p.m.; Mr. Johnstone.

B.C. Vocational School, Burnaby, Building 3.

452. Technology of Woodworking III.

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

Limited to 20 students.

Prerequisite: Education 150.

Textbook: Burbank, *House Carpentry and Joinery,* (Simmons Boardman, latest edition).

Senior Shops, Vancouver Technical School, 1 p.m. - 5 p.m.

Twenty laboratory hours a week—3 units.

Mr. Morrice.

453. Auto Mechanics.

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

Limited to 18 students per section.

Prerequisite: Education 150.

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

Twenty hours laboratory a week—3 units.

Section 1: 8 a.m. - 12 noon; Mr. Mitchell.

Section 2: 1 p.m. - 5 p.m.; Mr. Crowe.

Vancouver Technical School, Automotive Shop.

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

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

Limited to 18 students.

Prerequisite: Education 150.

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

Twenty hours laboratory a week—3 units.

Mr. Catherall.

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

Foundry, Vancouver Technical School.

455. Principles of Design and Construction of Small Boats.

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

Limited to 18 students.

Prerequisite: Education 150.

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

Twenty hours laboratory a week—3 units.

One section only, 8 a.m. - 12 noon; Mr. Douglas.

Vancouver Technical School, Senior Workshop.

Note: Programme change planned for 1966-67. Consult Director regarding course offerings for 1967.

ENGLISH

100. Literature and Composition. (A)

A study of modern literature and of the principles of composition. Essays and class reports required.

Pre-reading required: Hardy, *Tess of the d'Urbervilles;* Conrad, *Lord Jim;* Shaw, *St. Joan;* Bolt, *A Man for All Seasons.*

Textbooks: Guth, *Words and Ideas,* 2nd ed. (Wadsworth); Mansfield, *The Garden Party* (Penguin); Joyce, *Dubliners* (Penguin); Hemingway, *The Snows of Kilimanjaro* (Scribner's); Faulkner, *Selected Short Stories* (Modern Library); Shaw, *St. Joan* (Penguin); *New English Dramatists — 6* (Penguin); Hardy, *Tess of the d'Urbervilles* (Macmillan); Conrad, *Lord Jim; A Little Treasury of Modern Poetry,* ed. Oscar Williams, rev. ed. (Scribner's). *All but Guth, Faulkner, and Williams are available in paperback editions.*

Ten hours lectures and discussions a week—3 units.

Mr. Layman, Mr. McNeal.

200. Literature and Composition. (A)

A detailed reading list is available from the Secretary, Buchanan 469.

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

Prerequisite: English 100.

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

Textbooks: Dunn, *A Chaucer Reader* (Harcourt); *Hamlet,* ed. Rylands (Oxford); Mack, *Milton* (Prentice-Hall); Swift, *Gulliver's Travels* (Riverside); Austen, *Pride and Prejudice* (H. Mifflin); Dickens, *Great Expectations* (Macmillan, Canada); Eliot, *Middlemarch* (H. Mifflin); *Poems in English,* 1530-1940, ed. Daiches and Charvat (Ronald).

Ten hours lectures a week—3 units.

Mr. Atkin, Mrs. Blom, Mrs. Hartley, Mr. Labrie, Mr. Quartermain, Mr. Rosengarten, Mr. Seamon, Mr. Shucard.

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

303. English Composition (A)

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

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

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

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

(c) those who previously failed English 300 or 303.

(Please indicate your priority on your registration material.)

Limited to 15 students.

Textbooks: Sanderson and Gordon, *Exposition and the English Language,* Appleton; Roberts, *Understanding English,* Harper. A third text will be announced at the first class meeting.

Ten hours lectures a week—3 units.

Mr. Broome, Mrs. Harder, Mr. McKay, Mr. Ross, Mrs. Sinclair, Miss Smith, Mrs. Tedford.

304. Advanced English Composition. (A)

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

Limited to 15 students.

Textbook: Read, *English Prose Style.*

Ten hours lectures a week—3 units.

Mr. England, Mr. Mayne.

309. Modern English and Its Background. (A)

The student will be introduced to linguistic methods and will examine some traditional and contemporary descriptions of modern English structure: phonetics, phonology, grammar. Lexicography, theories of usage and trends in computational linguistics will also be discussed.

Pre-reading required: Jespersen, *Growth and Structure of the English Language* (Anchor); Laird, *The Miracle of Language* (Premier); Sapir, *Language* (Harvest); Schlauch, *The Gift of Language* (Dover); Marckwardt, *American English* (Oxford); Clark, *Early English* (Norton).

Textbooks: Stageburg, *An Introductory English Grammar,* Holt, 1965; Allen, *Readings in Applied English Linguistics,* Appleton, 2nd ed., 1963.

Ten hours lectures a week—3 units.

Miss Baxendale.

311. Children's Literature. (A)

A survey of children's literature from early sources to recent books. An historical approach to the appraisal of books and authors for children. For credit only in the Faculty of Education.

Pre-reading and background reading (all paperbacks): Bulfinch: *Bulfinch's Mythology;* David, *The Twelve Dancing Princesses;* Defoe, *Robinson Crusoe;* Forbes, *Johnny Tremain;* Grahame, *Wind in the Willows;* Kipling, *Jungle Books;* Lewis, *The Lion, The Witch and the Wardrobe;* Montgomery, *Anne of Green Gables;* Nesbit, *The Wood-be-goods;* Twain, *Tom Sawyer.*

Textbook: Smith, *The Unreluctant Years.*

Ten hours lectures a week—3 units.

Mr. Ashley, Mrs. Haddon, Mrs. Hart, Mrs. Matthews.

340. The English Novel. (B)

A critical introduction to the major English novelists of the eighteenth, nineteenth, and early twentieth centuries. Critical theories of the novel form, its development and changing techniques, will be discussed mainly through a detailed study of the novels listed below.

Pre-reading required: All the novels from Defoe to Austen. A test on these books will be given at the end of the first week.

Textbooks: Defoe, *Moll Flanders* (1722); Richardson, *Clarissa* (1748); Fielding, *Tom Jones* (1749); Sterne, *Tristram Shandy* (1759-1767); Walpole, *The Castle of Otranto* (1765); Burney, *Evelina* (1778); Radcliffe, *The Mysteries of Udolpho* (1794, selected passages); Austen, *Northanger Abbey* (1805), *Emma* (1815); Bronte, *Jane Eyre* (1847); Bronte, *Wuthering Heights* (1847); Thackeray, *Vanity Fair* (1847-48); Dickens, *Bleak House* (1852-53), *Hard Times* (1854); Eliot, *The Mill on the Floss* (1860); Hardy, *Tess of the D'Urbervilles* (1891); Butler, *The Way of All Flesh* (1884-1903); Conrad, *Lord Jim* (1900); Lawrence, *The Rainbow* (1915); Woolf, *To the Lighthouse* (1927).

Ten hours lectures a week—3 units.

Mr. Hulcoop.

360. Sixteenth Century Survey to 1611. (C)

A study of the formative ideas of the English Renaissance and of its literature, with particular emphasis on the work of Sidney, Shakespeare, Bacon and Donne.

Textbooks: Edmund Spencer, *Selected Poetry,* ed. Kirschbaum; *Elizabethan Fiction,* ed. Ashley and Moseley; *Portable Elizabethan Reader,* ed. Hayden; *Age of Shakespeare,* ed. Ford; *Three Renaissance Classics,* ed. Milligan; *Elizabethan Lyrics,* ed. Ault; *English Literary Criticism; The Renaissance,* ed. Hardison; *Shakespeare, Love's Labour Lost and Antony and Cleopatra.*

Ten hours lectures a week—3 units.

Mr. Johnson.

365. Shakespeare (A)

Lectures on various aspects of Shakespeare's art: Detailed study of *Richard II, King John, Twelfth Night, Julius Caesar, Othello, Macbeth, The Tempest, All's Well That Ends Well.* Home reading: *Richard III, As You Like It, Timon of Athens* and *Cymbelline.*

Textbooks: Please refer to the information given for English 366.

Ten hours lectures a week—3 units.

Mr. Lawlor.

366. Shakespeare. (A)

Pre-reading recommended: Harbage, *William Shakespeare: A Reader's Guide* (Noonday); Halliday, *A Shakespeare Companion* (Penguin); 20th Century Views on Shakespeare (3 vols.); British Council Booklets, *Writers and their Work* (10 available). A detailed study in class of eight plays: *Love's Labours Lost, Henry IV,* parts I and II; *Much Ado About Nothing, Troilus and Cressida, King Lear, Anthony and Cleopatra, Winter's Tale.* Four other plays comprise the home reading: *A Midsummer Night's Dream, Romeo and Juliet, Measure for Measure, Henry V.*

Textbook: A general acquaintance with Shakespeare's canon is useful, and for this any reliable complete edition will suffice (e.g., Craig, Kittredge, Sisson, Alexander, Harrison). For class use, individual copies in a paperback series will be suitable (e.g., the Signet series).

Ten hours lectures a week—3 units.

Mr. Ingram.

370. Seventeenth-Century Literature. (B)

The century's prose and poetry, exclusive of Milton. Emphasis upon the ideas, forms and styles as an expression of the educational, religious, moral and political controversies of the age.

A survey of major prose writers, especially Bacon, Browne, and Bunyan, with representative selections from the sermon literature (including Donne), from Walton, Hobbes, Locke, and others; and a survey of principal poets, especially Donne and the "metaphysicals", Jonson and his "sons", the "Spenserians", and Dryden and the Restoration wits. The course is designed to illustrate through the study of aesthetic, philosophic, and critical traditions the changing literary and intellectual milieu. The work of Donne and Dryden will epitomize the contrast between the ideals of the earlier and the later part of the century.

Textbooks: *17th Century Verse and Prose,* eds. White, Wallerstein, and Quintana. Two volumes. *Donne,* ed. Wanning (Laurel), Bacon, *Essays . . .,* ed. Jones (Odyssey); Browne, *Religio Medici* (Everyman); Bunyan, *The Pilgrim's Progress* (Rinehart); Dryden, *All for Love,* (Bredvold).

Textbooks recommended: Willey, *17th Century Background* (Anchor); Bredvold, *The Intellectual Milieu of John Dryden* (Ann Arbor).

A detailed reading list is available in Buchanan 469.

Ten hours lectures a week—3 units.

Mr. Stanwood.

380. Eighteenth-Century Literature. (B)

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

Textbooks: Bredvold, *Eighteenth Century Poetry,* 2nd ed.; Swift, *Gulliver's Travels,* Modern Library; Defoe, *Moll Flanders,* Rinehart; Johnson, *Selected Prose and Poetry,* Rinehart; Boswell, *Life of Johnson,* Scribner; Goldsmith, *Selections,* Methuen, or *The Vicar of Wakefield,* Modern Library. Inexpensive editions of some Restoration and 18th century plays may also be needed.

Ten hours lectures a week—3 units.

Mr. Macaree.

390. A Survey of English Literature of the 19th Century. (B)

The course traces the main movements of prose, poetry, and drama from 1800 to 1900. It begins with the writers of the Romantic Revival, deals with romanticism as a continuing force, and sketches the emergence and rise of realism.

Textbooks: Bowyer and Brooks, *The Victoria Age,* Appleton, 2nd ed.; Woods, *English Poetry and Prose of the Romantic Movement,* Scott Foresman, Rev. ed.

Ten hours lectures a week—3 units.

Mr. Parry.

420. Modern Period. (B)

The course gives a detailed study of selected texts and a knowledge of the ideas and social forces, especially as revealed through the literature of the period 1870-1914.

Textbooks: Hardy, *The Return of the Native, Tess of the D'Urbervilles* (Signet); Butler, *The Way of All Flesh* (Signet); Bennett, *The Old Wives' Tale* (Signet); Wilde, *The Picture of Dorian Gray* (Penguin); Wells, *Tono-Bungay* (Signet); Conrad, *The Secret Agent Victory* (Penguin), *The Nigger of the Narcissus, Heart of Darkness* (Vintage); Ford, *The Good Soldier* (Vintage); Wilde, *Lady Windemere's Fan, The Importance of Being Earnest* (Penguin); Synge, *Riders to the Sea, The Playboy of the Western World* (Everyman); Shaw, *Mrs. Warren's Profession, Candida, Man and Superman* (Signet), *Major Barbara, Pygmalion, Heartbreak House* (Penguin); Yeats, *Selected Poetry* (Macmillan); *Modern British Poetry,* ed. Untermeyer.

Ten hours lectures a week—3 units.

Mr. Whitehead.

429. Contemporary Literature. (A)

The course gives detailed study of selected texts and a general knowledge of the social, intellectual, and artistic trends of the period.

Textbooks: Joyce, *The Essential James Joyce* (Penguin); Eliot, *Selected Poems* (Faber); Lawrence, *The Rainbow, Women in Love* (Penguin); Forster, *Passage to India* (Arnold); Woolf, *To the Lighthouse* (Everyman); Huxley, *Crome Yellow* (Penguin); Waugh, *Decline and Fall* (Penguin); Greene, *Brighton Rock* (Penguin); Orwell, *Homage to Catalonia, 1984* (Penguin); Mansfield, *The Garden Party* (Penguin); Isherwood, *Goodbye to Berlin* (Penguin); Graves, *Goodbye to All That* (Penguin); O'Casey, *Three Plays* (St. Martin's); Golding, *Lord of the Flies* (Penguin); Yeats, *Selected Poetry* (St. Martin's), *Four Modern Verse Plays* (Penguin); Ford, *Some Do Not . . .* and *A Man Could Stand Up . . .* (Signet); *The Pocket Book of Modern Verse,* ed. Williams (Washington Square); *The New Poetry,* ed. Alvarez (Penguin).

Ten hours lectures a week—3 units.

Mr. Yeomans.

450. A Survey of American Literature. (B)

An examination of the main movements in American literature from Puritanism to Naturalism.

Textbooks: *The American Tradition in Literature,* ed. Bradley and others (rev. ed., 2 vols.; Norton); Hawthorne, *The Scarlet Letter* (in Bradley); Twain, *The Adventures of Huckleberry Finn* (in Bradley); James, *The American* (Riverside); Melville, *Moby-Dick* (Bobbs-Merrill); Dreiser, *The Financier* (Signet);

Fitzgerald, *The Great Gatsby* (Scribner's); Faulkner, *Absalom, Absalom!* (Modern Library).

Ten hours lectures a week—3 units.

Mr. Singleton.

454. American Fiction. (A)

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

Textbooks: The works starred will be treated in detail; other works will also receive some attention. Anderson, Winesburg, *Ohio;* Bellow, *The Victim;* Cather, *My Antonia;* *Cooper, *The Prairie* (Rinehart); *Crane, *The Red Badge of Courage etc.* (Rinehart); Dos Passos, *Manhattan Transfer;* *Dreiser, *An American Tragedy* (Dell); *Faulkner, *The Sound and the Fury, Go Down Moses* (Modern Library); *Fitzgerald, *Tender Is the Night* (Scribner's); *Hawthorne, *The House of the Seven Gables* (Riverside); *Howells, *The Rise of Silas Lapham* (Riverside); *Hemingway, *In Our Time, The Sun Also Rises* (Scribner's); *James, *What Maisie Knew* (Doubleday), *Selected Short Stories;* Lewis, *Babbitt;* *Melville, *Moby-Dick* (Bobbs Merrill); *Poe, *Selected Writings* (Riverside); Sinclair, *The Jungle;* Steinbeck, *The Grapes of Wrath;* *Twain, *Huckleberry Finn* (Viking); Wolfe, *You Can't Go Home Again.* A supplementary list is available from the secretary, Buchanan 469.

Ten hours lectures a week—3 units.

Mr. Hall.

519. 16th Century Studies. (C) (Spencer and the Spenserian Tradition.)

Limited to 12 students. Permission of the department's graduate committee required. No other course may be taken concurrently.

Textbook: The Oxford standard edition—two volumes for The Faerie Queen, one for the Minor Poems—is recommended; the three volumes of the Everyman series are acceptable.

Ten hours lectures a week—3 units.

Mr. Blissett.

Note: English 321 is proposed for 1967, English 329 for 1968.

FINE ARTS

NOTE: *The following courses are for credit only in the Faculty of Education, with the exception of Fine Arts 125 and 228, which are for credit in the Faculty of Arts or Science. Students enrolling in Education Fine Arts courses above the "300" level must be prepared to submit art work to their instructor on the first day of lectures. The work submitted should show evidence of serious extra-curricular effort and will assist the instructor in guiding the student.*

101. History of the Fine Arts. (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.

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

Ten hours lectures a week—3 units.

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

125. 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.

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

Ten hours lectures a week—3 units.

Mr. Kaplan.

228. Design Fundamentals. (A)

An intensive and advanced study of line, shape, light, texture, colour, space, through creative experiments closely related to illustrated lectures and demonstrations.

30 students per section.

Textbooks: Ocvirk, Bone, Stinson and Wigg, *Art Fundamentals, Theory and Practice;* Maurice de Sausmarez, *Basic Design: The Dynamics of Visual Form.*

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

Mr. Baxter.

300. 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 University Book Store.

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

Mr. Foster.

302. 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.

Prerequisites: Fine Arts 101 and Fine Arts 300.

For credit only in the Faculty of Education.

Limited to 20 students majoring in Art.

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

Mr. Healy.

303. Ceramics and Modelling I. (B)

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

Limited to a total of 20 students for Fine Arts 303, 403, 413.

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

For credit only in the Faculty of Education.

Textbook: J. R. Krum, *Hand-Built Pottery,* International Textbook Co.

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

Mr. Clarke.

331. Social History of Art. (C)

A study of the social, political, religious and economic background of the arts to account for changes of theme and style, from paleolithic times to the present.

Textbooks: Arnold Hansen, *The Social History of Art,* Vintage Books, paperback; H. W. Janson, *History of Art,* Prentice Hall-Abrams.

Ten hours lectures a week—3 units.

Mr. Cragg.

401. 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.

Prerequisites: Fine Arts 300 and 302 or equivalent courses.

Limited to 20 students. For credit only in the Faculty of Education.

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

Mr. Fisher.

402. 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.

Prerequisite: F.A. 401.

Limited to 20 students. For credit only in the Faculty of Education.

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

Mr. Jones.

403. Ceramics and Modelling II. (B)

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

For credit only in the Faculty of Education.

Limited to a total of 20 students for Fine Arts 303, 403, 413.

Prerequisite: Fine Arts 303 or equivalent course.

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

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

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

Mr. Clarke.

413. Ceramics and Modelling. (B)

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

Prerequisites: Fine Arts 303 and 403 or equivalent courses.

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

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

Limited to a total of 20 students for Fine Arts 303, 403, 413.

For credit only in the Faculty of Education.

Ten hours lectures a week—3 units.

Mr. Clarke.

Note: Fine Arts 301, 305/405/415, 307/407/417 are proposed for 1967.

FRENCH

110. First Year French. (A)

Prerequisite: French 11 or 20.

Pre-reading: *Si un jour* (Lessons 1-10).

Textbooks: Mondelli and François. *French Conversational Review Grammar,* Gage, 2nd ed., Muller and Raffanel, *Si un jour,* Heath.

Ten hours lectures a week—3 units

Mrs. Farquhar.

120. French Language and Literature, Part I. (A)

Prerequisite: French 92.

Textbooks:

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

(2) *Voix du Siècle,* (Edition by Smith-Savacool), (Harcourt, Brace and World).

(3) Albert Camus, *L'Etranger,* (Edition by G. Bree and Carlos Lynes, Jr.). (Appleton, Century, Crofts, New York, 1955).

(4) Jean Anouilh, *Antigone,* ed. R. Laubreaux, Didier.

Ten hours lectures a week—3 units.

Mr. MacKay.

210. Second Year University French. (A)

Prerequisite: French 110.

Pre-reading: There will be a test before the end of the first week on the following required pre-reading: Mulhauser, Desberg, Saisselin, *Le Français d'aujourd'hui: écrit et oral,* pp. 145-186; *La France Actuelle,* pp. 3-60 (excluding dialogues and exercises).

Textbooks: Mulhauser, Desberg, Saisselin, *Le Français d'aujourd'hui: écrit et oral,* (Ginn & Co.); Bauer, *La France Actuelle,* Houghton Mifflin Co.

Ten hours lectures a week—3 units.

Miss Kaplan, Miss Richardson.

220. French Language and Literature, Part II. (A)

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

Pre-reading required: *Forme et fond,* pp. 201-346.

Textbooks: Breunig et al, *Forme et fond,* Macmillan; Molière, *L'Avare,* ed. Yarrow. Textes francais classiques et modernes, University of London Press; Voltaire, *Candide,* ed. Taylor, Blackwell's; Mansell Jones and Richardson, *A Book of French Verse,* Oxford.

Ten hours lectures a week—3 units.

Mr. Knutson.

223. Training in Speech and Writing. (A)

Composition, discussion, stylistics.

Prerequisite: Completion of French 210 or equivalent.

Textbooks: O'Brien, Lafrance, Brachfeld, *Advanced French,* Ginn; Mauger, *Cours de Langue et de Civilisation Françaises, III,* Hachette, (Paris).

Ten hours lectures a week—3 units.

Mr. St. Clair.

302. Studies in French Language and Style. (A)

Composition; syntax.

Limited number of students.

Prerequisite: 2nd class standing in French 220.

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

Ten hours lectures a week—3 units.

Mrs. Knutson, Mrs. McBride.

304. Advanced Studies in French Language and Style. (A)

Prerequisite: French 302.

Textbook: Vinay, Darbelnet, *Stylistique comparée du français et de l'anglais,* and *Cahier d'exercices,* tome I, Beauchemin; Ginestier, Maillet, Alvernhe, *Culture et Civilisation françaises.*

Ten hours lectures a week—3 units.

Mrs. Bird.

411. The Romantic Movement in France. (C)

A study of representative works from the poetry, theatre and novel of the first half of the 19th century.

Pre-reading recommended: Stendhal, *Le Rouge et le Noir.*

Textbooks: Lagarde et Michard, *XIX Siècle.* Classiques Larousse: Mme. de Staël, *De l'Allemagne;* Chateaubriand, *René;* Lamartine, *Méditations poétiques;* Vigny, *Poésies choisies, Chatterton;* Hugo, *Choix de poésies lyriques, La Légende*

des Siècles (Vol. I), *Les Travailleurs de la mer;* Musset, *Il ne faut jurer de rien.* Classiques Garnier: Balzac, *Le Père Goriot;* Stendhal, *Le Rouge et le Noir;* Flaubert, *Madame Bovary.*

Ten hours lectures a week—3 units.

Mr. Bird.

420. French Language and Literature. (C)

Discussion of selected topics. (Contemporary French Literature: symbolism to existentialism.)

Textbooks: Baudelaire, *Les Fleurs du Mal,* Livre de Poche; *Arthur Rimbaud,* (Poètes d'aujourd'hui), ed. Pierre Seghers; *Paul Verlaine,* Poètes d'aujourd'hui, ed. Pierre Seghers; Valéry, *Poésies,* Gallimard; Péguy, *Morceaux choisis, poésies,* Gallimard; Claudel, *Cinq grandes odes,* Gallimard; Sartre, *Les Mains sales,* Livre de poche; Malraux, *La Voie royale,* Livre de poche; Bernanos, *Journal d'un curé de campagne,* Livre de poche.

Ten hours lectures a week—3 units.

Father Barjon.

Note: *Intensive course in spoken French (non-credit), see page 69.*

GEOGRAPHY

100. The Geography of Culture and Environment. (A)

An introduction to the geographic analysis of reciprocal relationship of man, culture and environment.

Enrolment limited to 175.

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

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

Mr. Hardwick.

101. Introduction to Physical Geography. (A)

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

Limited to 100 students.

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

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

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

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

Mr. Stager.

201. Economic and Human Geography. (A)

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

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

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

Ten hours lectures a week—3 units.

Mr. Golledge.

304. Rural Geography. (B)

A survey of agriculture and associated settlement at various technological stages, with emphasis on underdevelopment. Field work in the Fraser Valley. Prerequisite: Geography 100 or Geography 201. Assigned readings.

Limited to 40 students.

Ten hours lectures a week—3 units.

Mr. Siemens.

404. Geography of the Soviet Union. (C)

Students register for Slavonic Studies 404.

GEOLOGY

105. 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.

Textbooks: W. C. Putnam, *Geology*, Oxford Press, 1964; lab manual by Hamblin and Howard, Burgess Publishing Co., 1965.

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

Mr. Mills.

GERMAN

100. First Year German. (A)

Introduction to the language.

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

Ten hours lectures a week—3 units.

Mr. Medveczky.

200. Second Year German. (A)

Reading, grammar, composition.

Prerequisite: German 100.

Textbooks: Russon, *Complete German Course for First Examinations*, Longman's Canada Ltd., First ed. (1964 impression); *Lesen und Hören*, Daniel C. McCluney, Jr. ed., Norton, 1963; Theodor Storm, *Der Schimmebreiter*, Methuen, 1953.

Ten hours lectures and one hour laboratory a week—3 units.

Mr. Mornin.

223. Intermediate Composition and Oral Practice. (B)

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

Textbooks: Dutton, *German Prose Composition for Sixth Forms*, George G. Harrap & Co. Ltd.; Schulz-Griesbach, *Deutsche Sprachlehre fur Ausländer*, M. Huebner, Munich.

Ten hours lectures a week—3 units.

Mr. Miller.

310. German Literature 1700-1870. (C)

A study of major literary trends and representative figures from the Enlightenment to Naturalism.

Pre-reading required: Franz Grillparzer, *Der arme Spielmann;* E. Morike, *Mozart auf der Reise nach Prag;* T. Storm, *Der Schimmelreiter.*

Pre-reading recommended: parts from textbook.

Textbook: *German Literature since Goethe, Part One.* Houghton Mifflin Co.

Ten hours lectures a week—3 units.

Mr. Martin.

407. Survey of German Literature to 1700. (C)

Reading from selected texts.

Pre-reading required: List available in the Department office.

Textbooks: Werner Burkhard: *Schriftwerke deutscher Literatur*, Vol. I; Hartmann von Ouwe: *Der arme Heinrich*, ed. Bostock (Blackwell's German Texts); Hans Sachs: *Selections*, ed. Calder (Blackwell's German Plain Texts); Andreas

Gryphius: *Zwei Trauerspiele,* ed. Roos (København 1938); Grimmelshausen: *Simplicissimus* (Reclam edition).

Ten hours lectures a week—3 units.

Mr. Katz.

HISTORY

202. History of Canada. (A)

Introductory general course.

Textbook: McInnis, *Canada.*

Ten hours lectures a week—3 units.

Mr. Upton.

206. Main Currents in Twentieth-Century History. (C)

This course offers a background for contemporary world problems. This course is prerequisite for a combined major in International Relations. Not open to students who have received credit for History 101 or International Studies 100.

Ten hours lectures a week—3 units.

Mr. Conway.

305. Expansion of Europe — the Atlantic Area. (C)

The history of European colonization and colonial administration in North and South America, the West Indies, and Africa.

Ten hours lectures a week—3 units.

Mr. Williams.

326. British North America, 1783-1867. (B)

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

Ten hours lectures a week—3 units.

Mr. Wise.

327. American Colonial and Revolutionary History. (C)

From the first establishment of the colonies to the ratification of the Constitution.

Limited enrolment.

Ten hours lectures a week—3 units.

Mr. Wilson.

328. The United States, 1789-1877. (C)

Attention will be centered upon America's internal economy, society and politics, especially the Civil War.

Textbook: Bailey, *The American Pageant.*

Ten hours lectures a week—3 units.

406. History of France, 1715-1939. (C)

Special attention will be given to the revolutions of the 18th and 19th centuries.

Textbooks: A. B. Cobban, *A History of Modern France* (3 volumes), Pelican; G. Lefebvre, *The Coming of the French Revolution* (Paperback).

Ten hours lectures a week—3 units.

Mr. Bosher.

413. The Reformation. (C)

Intellectual, social, political aspects to the religious developments.

Ten hours lectures a week—3 units.

Mr. Walton.

426. Canada After 1867. (B)

A survey of the main features of political and economic development of Canada after 1867, with some consideration of foreign policy.

Ten hours lectures a week—3 units.

Mr. Humphries.

HOME ECONOMICS

H.E. 102, 104 and 106 are presented as a 3-unit course and must be taken in this manner.

Limited to 30 students.

Ten hours lectures and six hours laboratory a week.

Miss Borror, Mrs. Richards.

102. Textiles. (B)

A study of the physical and chemical characteristics of textile fibres; the consumption and care of fabrics.

Textbook: Jules Labarthe, *Textiles: Origins to Usage,* Macmillan, New York.

104. Introductory Clothing. (B)

A study of physical, psychological, cultural, economic and aesthetic factors which influence clothing consumption.

Textbooks: Erwin and Kinchen, *Clothing for Moderns,* 1964, Macmillan, 3rd ed.; Roach and Eicher, *Dress Adornment, and the Social Order,* Wiley.

106. Clothing Construction. (B)

Investigation and application of clothing construction principles on traditional and newly developed fabrics.

H.E. 201 and 310 are presented as a 3-unit course and must be taken in this manner.

Limited to 30 students.

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

201. Food Management II. (B)

Food supply - distribution and government regulations for protection of the consumer in Canada. Study of basic nutritional requirements; reference to world nutritional needs. Management of resources in meal preparation.

Prerequisite: H.E. 105.

Textbooks: Heseltine and Dow, *The New Basic Cook Book,* 1957; Hughes, Osee, *Introductory Foods,* or Justin, Rust and Vale, *Foods.*

310. Introduction to Human Nutrition. (B)

Background information required for effective teaching of Nutrition.

Textbook: Bogert, Jean, *Nutrition and Physical Fitness.*

421. Human Development and Family Relations. (B)

A multidiscipline course designed to provide the students with an understanding of normal growth and development of the individual throughout the life cycle; family relations and their significance in the development of family members; special problems in family living and community resources available to help meet them. Observations to be arranged.

Ten hours lectures a week—3 units.

Note: Home Economics 101, 105, 300, and 403 are proposed for 1967.

ITALIAN

100. First Year Italian. (A)

Grammar, reading, conversation.

Pre-reading recommended: *Listen and Learn Italian,* 3 records and manual, Dover Publications.

Textbooks: Olga Ragusa, *Essential Italian Grammar,* Dover, 2nd ed.; C. Fowler e T. Della Torre, *Andiamo in Italia,* Harrap, 2nd ed.; George Kay, ed., *The Penguin Book of Italian Verse,* Penguin Books Ltd., 2nd ed.

Mrs. Ciccone.

200. Second Year Italian. (A)

Prerequisite: Italian 100 or equivalent.

Pre-reading recommended: A. Manzoni, trans. A. Colquhoun, *The Betrothed,* Everyman's Library, Dent.

Textbooks: Goldoni, editor E. Maddalena, *La Locandiera,* Sansoni (Firenze), 1963; Moravia, *Racconti Romani,* Bompiani, Milano; A. Manzoni, *I Promessi Sposi,* Sansoni (Firenze), 1963; *Penguin Book of Italian Verse;* Either Cioffari, *Beginning Italian* (Heath), or Ragusa, *Essential Italian Grammar.*

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

Mrs. De Stefanis.

LATIN

120, 200, 210, 220, 403 or 522. Composite Course in Latin. (A)

Intended primarily for students attending the Summer Session. A substantial amount of a Roman author (in 1966, Horace, *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, 210, 220, 403 or 522 will register for this course under the appropriate number and will receive three units of credit upon the successful completion of the appropriate amount of work. Students who have failed Latin 110 in the winter session will not be admitted.

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

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

Textbooks: *Odes and Epodes,* ed. C. E. Bennett (revised J. C. Rolfe), Allyn and Bacon, Rev. ed. Translation: *The Odes and Epodes of Horace,* J. P. Clancy (University of Chicago Press).

Ten hours lectures a week—3 units.

Mr. Rutter.

MATHEMATICS

120. Fundamental Mathematics. (A)

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

Prerequisite: Mathematics 91 or equivalent.

Textbook: Thomas, *Calculus and Analytic Geometry,* Addison-Wesley, 3rd ed.; Christian, *A Brief Trigonometry,* Blaisdell, 2nd ed.

Ten hours lectures a week—3 units.

Mr. Lefevre.

200. Algebra and Geometry. (B)

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

Prerequisite: Mathematics 120.

Textbook: Davis, *The Mathematics of Matrices,* Ginn & Co.

Ten hours lectures a week—3 units.

Mr. Howitz.

202. Calculus. (B)

Differential and integral calculus, with applications.

Prerequisite: Mathematics 120.

Textbook: Thomas, *Calculus and Analytic Geometry,* Addison-Wesley, 3rd ed. (complete).

Ten hours lectures a week—3 units.

Mr. Smith.

203. Elementary Mathematics for Teachers. (A)

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

Students should not register for another course.

Textbooks: Keedy, *A Modern Introduction to Basic Mathematics,* Addison-Wesley, 1963; Harting et al., *Charting the Course for Arithmetic,* Scott Foresman (Gage), latest edition.

Ten hours lectures a week—3 units.

Mr. Gray, Mr. Kusnir.

300. Calculus II. (A)

Differential and integral calculus with applications.

Prerequisite: Mathematics 202 or 220.

Textbook: Protter and Morrey, *Modern Mathematical Analysis,* Addison-Wesley.

Ten hours lectures a week—3 units.

Mr. Wexler.

303. Mathematics for Elementary Teachers. (A)

A survey of elementary mathematics to follow Mathematics 203 for credit only in the Faculty of Education.

Prerequisite: At least second class standing in Mathematics 203 or equivalent.

Ten hours lectures a week—3 units.

Mr. Bates.

305. Statistics. (B)

Distribution theory, testing of statistical hypotheses, point and set estimation, parametric and non-parametric problems, elements of decision theory, analysis of variance.

Prerequisite: Mathematics 300 or 321 (which may be taken concurrently).

Textbook: Freund, *Mathematical Statistics,* (Prentice-Hall).

Ten hours lectures a week—3 units.

306. Topics in Geometry. (A)

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

Prerequisite: Mathematics 200.

Ten hours lectures a week—3 units.

308. 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 202 or 220.

Textbook: McCoy, *Introduction to Modern Algebra,* Allyn and Bacon.

Ten hours lectures a week—3 units.

Mr. Macskasy.

320. Elementary Real-Variable Theory. (C)

Point sets, continuity, Stieltjes integrals, series of functions, implicit-function theorems.

Ten hours lectures a week—3 units.

Mr. Froderburg.

412. 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. Poincare's theorem on vector fields on the surface of a sphere.

Prerequisite: Mathematics 300.

Ten hours lectures a week—3 units.

Mr. Lovaglia.

530. Homological Algebra. (C)

Prerequisite: Mathematics 400 and 401, or the equivalent.

Ten hours lectures a week—1-3 units.

Mr. Maranda.

531. Linear Topological Spaces. (C)

Prerequisite: Mathematics 400 and 401, or the equivalent.

Ten hours lectures a week—3 units.

Mr. Granirer.

532. To be announced. (C)

Note: Mathematics 202, 302 and 410 are proposed for 1967.

MICROBIOLOGY

200. Introductory Microbiology. (A)

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

Prerequisite: Chemistry 110 or 101 or 102, and either Biology 101 or 105, Botany 105 or Zoology 105.

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

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

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

Mr. Bismanis, Mrs. Gerwing.

MUSIC

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

120. Introduction to Music History and Literature. (A)

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

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

Mr. Reubart.

201. Counterpoint and Harmony. (C)

A continuation and expansion of Music 101.

Prerequisite: Music 101 or equivalent.

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

For credit only in the Faculty of Education.

Ten hours lectures a week—3 units.

Mr. De Coursey.

302. Instrumental Technics. (A)

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

Limited to 25 students.

For credit only in the Faculty of Education.

Prerequisite: Music 201 or equivalent.

Textbooks: Prescott & Chidester, *Getting Results with the School Band,* Carl Fischer; Kuhn, *Instrumental Music,* Allyn & Bacon; Collins, *Violin Teaching in Class,* Oxford Univ. Press.

Ten hours lectures and laboratory a week—3 units.

Mr. Clingman, Mr. Trowsdale.

303. Choral Music. (A)

Principles and technics of choral music.

Prerequisite: Music 201 or equivalent.

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

Textbooks: Ehret, *Choral Conductor's Handbook,* Edward B. Marks Music Corp.; *Five Centuries of Choral Music,* G. Schirmer, latest ed.

For credit only in the Faculty of Education.

Ten hours lectures a week—3 units.

Mr. Gibbard.

326. Music Appreciation. (A)

Designed for senior students with no musical background.

Limited to Third or Fourth Year students; or others with permission of the instructor.

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

Ten hours lectures a week—3 units.

Mr. Hokanson.

339. Opera Workshop I. (B)

Preparation of and participation in excerpt scenes and complete productions of operatic works of varied repertoire. Emphasis upon musical and dramatic styles and acting techniques.

Prerequisite: Pre-registration audition required.

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

Fifteen hours lectures a week—3 units.

Mr. Tickner.

401. Orchestration and Arranging. (A)

Technics of writing and arranging for chorus, band, and orchestra.

Keennan, *Technique of Orchestration with Workbook,* Prentice-Hall.

Prerequisite: Music 201 or equivalent.

Ten hours lectures a week—3 units.

Mr. Goldberg.

439. Opera Workshop II. (B)

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

Fifteen hours lectures a week—3 units.

Mr. Tickner.

PHILOSOPHY

100. Introduction to Philosophy. (A)

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

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

Ten hours lectures a week—3 units.

Mr. Jackson.

210. Ancient Philosophy. (C)

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

Prerequisite: Philosophy 100 or equivalent.

Textbooks: Kirk & Raven, *Pre-Socratic Philosophers,* Cambridge, paperback ed.; Plato, *Plato: Meno (LLA12) and Phaedo (LLA120) (Hackforth),* Liberal Arts Press, paperback ed.

Ten hours lectures a week—3 units.

Mr. Stewart.

415. Contemporary Philosophy. (B)

A brief introduction to the writings of recent analytic philosophers.

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

Pre-reading required: A. J. Ayer, *The Foundation of Empirical Knowledge.*

Pre-reading recommended: D. Pears, *Freedom of the Will.*

Textbooks: John Austin, *Sense and Sensibilia,* Oxford Univ. Press; P. H. Nowell-Smith, *Ethics,* Pelican.

Ten hours lectures a week—3 units.

Mr. Coval.

PHYSICAL EDUCATION

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

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

101. Gymnastics I. (A)

A first course in gymnastics.

Limited to 40 students.

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

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

One hour per day, July 27 - August 17 inclusive—1 unit.

Miss Phillips.

201. Gymnastics II. (B)

A second course in gymnastics including theory of gymnastics.

Limited to 30 students per section.

Prerequisite: P.E. 101.

Pre-reading recommended: Babbitt & Haas, *Gymnastic Exercises for Girls.*

Textbooks: James A. Baley, *Gymnastics in the Schools,* Allyn & Bacon, 1st ed.; Tom De Carlo, *Handbook of Progressive Gymnastics,* Prentice-Hall, 1st ed.

(men); Eric Hughes, *Gymnastics for Girls*, Ronald Press, 1st ed.

Two hours per day, July 27 - August 17 inclusive—1 unit.

Mr. Whittle.

209. Softball. (B)

Fundamentals and rules.

Limited to 36 students.

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

Pre-reading required: Softball Rule Book, 1965.

One hour per day, July 27 - August 17 inclusive—½ unit.

Mr. Lounsberry.

210. Basketball. (A)

Fundamentals, basic drills, simple offensive tactics.

Limited to 50 students.

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

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

Mr. Pomfret.

212. Football. (B)

Fundamentals, basic drills and formations.

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

Mr. Lounsberry.

214. Rugby. (B)

Basic skills, laws, principles of instruction, philosophy.

Pre-reading recommended: Laws of the Game and notes on the laws of the game.

Textbooks: Rugby Football Union, *Why the Whistle Went*, Sidney Press Ltd., Bedford; Rugby Football Union, *Know the Game Rugby Union Football*, Educational Productions Ltd., 17 Denbigh St., London; *Laws of the Game and Notes on the Laws of the Game, The Basic Skills, The Art of Refereeing, Coaching Rugby Footballers, Training for Rugby Footballers*, Rugby Football Union, Twickenham, England.

One hour per day, July 27 - August 17 inclusive—½ unit.

Mr. Wightman.

215. Soccer and Speedball for Women. (C)

Fundamentals, basic drills, rules, and team play.

Textbook: D.G.W.S., *Official Soccer-Speedball Guide*, Am. Assoc. Health, Phys. Ed. and Recreation, current ed.

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

Miss Schrodt.

216. Soccer. (B)

Basic skills, rules, emphasis on playing.

Pre-reading recommended: *Know the Game. The Laws of Association Football.*

Textbooks: Walter Winterbottom, *Soccer Coaching*, Naldrett Press Ltd., 1955; E. R. Slade, *Soccer Coaching Manual for Schools and Colleges*, Canadian Soccer Football Association (Veteran Press Ltd., Winnipeg); *Know the Game. The Laws of Association Football*, Published by Educational Productions, Ltd., 17 Denbigh St., London, S.W. 1.

One hour per day, July 27 - August 17 inclusive—½ unit.

Mr. Wightman.

218. Games, Contests and Relays. (A)

Relay, group and recreational games and activities.

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

Miss Schrodt.

219. Volleyball. (A)

Basic skills, rules, team tactics.

Limited to 48 students.

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

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

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

One hour per day, July 27 - August 17 inclusive—½ unit.

Mr. Lounsberry.

230. Swimming. (A)

Elementary swimming skills, strokes, entries, water safety.

Textbook: *Notes for Instructors,* (Canadian Red Cross Society).

One hour per day (12:30 - 1:25 p.m.), July 27 - August 17 inclusive—½ unit.

Mrs. Penney.

240. Dance. (A)

Ballroom: waltz, foxtrot, Latin-American dances.

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

Mr. Vincent.

242. Ballroom Dance II. (B)

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

Prerequisite: Physical Education 240.

One hour per day, July 27 - August 17 inclusive—½ unit.

Mr. Vincent.

243. Square Dance. (C)

Square and couple dance.

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

Mrs. Penney.

244. National Dance. (A)

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

Textbook: Kraus, *Folk Dancing,* Macmillan.

One hour per day, July 27 - August 17 inclusive—½ unit.

Miss Phillips.

250. Track and Field I. (A)

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

Limited enrolment.

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

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

Textbooks: As above.

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

Mr. Pugh.

251. Track and Field II. (A)

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

Limited to 40 students.

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

Textbooks: as for P.E. 250.

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

Mr. Pugh.

260. Principles of Physical Education. (A)

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

Pre-reading recommended: Editor: M. L. Van Vliet, *Physical Education in Canada,* Prentice-Hall, 1965.

Textbook: Charles Bucher, *Foundations of Physical Education,* C. V. Mosby, 4th ed.

One hour per day, July 4 - August 17 inclusive—1½ units.

Mrs. Penney.

262. Health I. (A)

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

Prerequisite: Second Year Standing or consent of Instructor.

Textbook: Anne B. McNaught, Robin Callander, *Illustrated Physiology,* E. S. Livingstone Ltd., Edinburgh & London, 1963.

One hour per day—1½ units.

Mr. Banister.

310. Advanced Basketball. (A)

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

Prerequisite: Physical Education 210.

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

One hour per day, July 4 - 25 inclusive—1 unit.

Mr. Pomfret.

330. Swimming. (A)

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

Prerequisite: Physical Education 230.

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

One hour per day (12:30 - 1:25 p.m.) July 4 - 25 inclusive—1 unit.

Mr. Pomfret.

350. Advanced Track and Field. (B)

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

Prerequisite: Physical Education 250 or Physical Education 251.

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

Textbooks: Doherty, *Modern Track and Field,* Prentice-Hall; International Amateur Athletic Federation, *International Amateur Athletic Federation Official*

Handbook, 1965-66, I.A.A. Federation, Windsor House, 46 Victoria St., London, S.W. 1, England.

One hour per day, July 4 - 25 inclusive—1 unit.

Mr. Pugh.

460. Organization and Administration of Physical Education. (B)

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

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

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

One hour per day, July 4 - August 17 inclusive—1½ units.

Mr. Lounsberry.

462. Health II. (B)

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

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

Textbook: Diehl, *Textbook of Healthful Living,* McGraw-Hill, Sixth Edition; Heen & Farnsworth, *Living,* Scott-Foresman, Fourth Edition.

One hour per day, July 4 - August 17 inclusive—1½ units.

Mr. Whittle.

470. Tests and Measurements. (B)

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

Textbooks: Donald K. Mathews, *Measurement in Physical Education,* W. B. Saunders, 2nd ed.; Frank F. Gorow, *Statistical Measures,* Chandler Publishing Company, 1st ed.

One hour lecture per day and laboratory hours to be assigned, July 4 - August 17—1½ units.

Mr. Brown.

PHYSICS

101. Elementary Physics. (A)

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

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

Prerequisite: Mathematics 120 or equivalent. (May be taken concurrently.)

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

Textbook: Fowler & Meyer, *Physics for Engineers and Scientists,* Allyn & Bacon, 2nd ed.

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

Mr. Curzon.

300. Electricity and Magnetism. (B)

Fundamentals of magnetism and electricity including basis A.C. circuit theory.

Prerequisites: Physics 200; Mathematics 202 or 220.

Textbook: Duckworth, *Electricity and Magnetism,* (Macmillan, latest edition).

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

400. Atomic and Nuclear Physics. (A)

The major phenomena in the fields of atomic and nuclear physics.

Prerequisite: Physics 300 or equivalent.

Textbook: Sproule, *Modern Physics,* Wiley, 2nd ed., 1963.

Ten hours lectures a week—3 units.

Mr. Nodwell.

429. Experimental Atomic Physics. (C)

Experimental investigations in atomic and nuclear physics with lectures providing mathematical background. (Credit will not be given for *both* Physics 419 and Physics 429.) Available for credit in the Faculty of Education.

Prerequisite: Physics 300 or equivalent.

Pre-reading recommended: *A Laboratory Course in Physics,* Books I and II, Livesey, Cannon and Ryniak.

Five hours lectures and twelve hours laboratory a week—2 units.

Mr. Livesey.

Note: Physics 200, 308 and 400 are proposed for 1967.

POLITICAL SCIENCE

200. Democratic Government and Politics. (B)

A basic course designed to introduce the student to the scope, problems, and methods of political science; a comparative and analytical inquiry into the political institutions and processes of Canada, the United Kingdom, and the United States.

Prerequisite: First Year Standing. (Not open to students who have taken political Economy 101.)

Textbook: Pennock and Smith, *Political Science, An Introduction,* (Collier, Macmillan); John T. Saxwell and John C. Ricker, *How Are We Governed?*

Ten hours lectures a week—3 units.

Mr. Irwin.

201. Governments of Britain and the United States. (B)

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

Prerequisite: First Year standing.

Textbooks: *British Political Parties,* Robert T. McKenzie, Praeger (paperback); Marian D. Irish & James W. Prothro, *The Politics of American Democracy,* Prentice-Hall, 3rd (or 4th ed. if available) ed.; Jean Blondel, *Voters, Parties, and Leaders,* Penguin Books, (Pelican Books, A638); *The British Constitution,* Harvey and Bather; Robert B. Dishman, *The State of the Union,* Charles Scribner's Sons (1965).

Ten hours lectures a week—3 units.

Mr. Wright.

301. Comparative Government. (C)

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

Textbook: Beer and Ulam, *Patterns of Government,* Random House, 2nd ed.

Ten hours lectures a week—3 units.

Mr. Laponce.

PSYCHOLOGY

100. Introductry Psychology. (A)

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

Ten hours lectures a week—3 units.

Mr. Hare.

206. Dynamics of Behaviour. (A)

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

Prerequisite: Psychology 100 or equivalent.

Textbook: A. W. Staats & C. K. Staats, *Complex Human Behavior,* Holt, Rinehart and Winston, latest ed.

Ten hours lectures a week—3 units.

Mr. Tolman.

305. Personality Theory. (C)

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

Prerequisite: Psychology 206.

A reading list will be provided.

Ten hours lectures a week—3 units.

Mr. Signori.

308. Social Psychology. (B)

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

Credit not allowed for both 201 and 308.

Prerequisites: Psychology 100 and one 200 course, except 201.

Ten hours lectures a week—3 units.

Mr. Sampson.

405. Social Learning. (A)

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

Prerequisite: Psychology 100 and 200 or 206.

Textbooks: Editors: Martin Land, Los W. Hoffman, *Review of Child Development Research:* Volume 1, Russell Gage Foundation, 1st ed.; A. Bandura and R. H. Walters, *Social Learning and Personality Development,* Holt, Rinehart and Winston, Inc., 1st ed.

Ten hours lectures a week—3 units.

Mr. Kenny.

RUSSIAN

100. Basic Russian. (A)

Introductory course for all beginners.

Limited to 20 students.

Textbook: Stilman and Harkins, *Introductory Russian Grammar,* Blaisdell Publishing Co., 1964 ed., or later.

Ten hours lectures a week—3 units.

Mrs. Reid.

200. Second Year Russian. (A)

Limited to 30 students.

Prerequisite: Russian 100 or its equivalent.

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

Ten hours lectures a week—3 units.

Miss Rebrin.

SLAVONIC STUDIES

404. Geography of the Soviet Union. (C)

The distribution of population and its historical origins. The nature of the physical environment. The distribution of resources and economic activities. The major regions. Soviet power in the modern world. Atlas: Oxford Regional Economic Atlas of the U.S.S.R. and Eastern Europe 1960.

Textbook: Cole and German, *Geography of the U.S.S.R.*

Ten hours lectures a week—3 units.

Mr. Ruggles.

SOCIOLOGY

200. Introduction to Sociology. (A)

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

Readings to be assigned.

Ten hours lectures a week—3 units.

Mr. Ball.

421. Political Sociology. (C)

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

Ten hours lectures a week—3 units.

Mr. Laulicht.

SPANISH

100. First Year Spanish. (A)

Grammar, composition, translation, oral practice.

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

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

Mrs. Hall, Miss Tomsich.

200. Second Year Spanish. (A)

Grammar, composition, translation, oral practice, readings.

Prerequisite: Spanish 100 or equivalent.

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

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

Ten hours lectures a week—3 units.

THEATRE

300. Theatre Practice. (A)

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

For credit in the Faculties of Arts and Education.

Limited to 20 students. Registration permitting, a small number of recommended non-credit students may be admitted to this course. (Application for admission

of non-credit students must be made to the Department of Theatre not later than May 2, 1966.)

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

Textbooks: Charles McGraw, *Acting Is Believing;* Turner, *Voice and Speech in the Theatre,* (Pitman & Sons, 1962).

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

Mr. Strassmann.

301. Children's Theatre. (A)

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

For credit only in the Faculty of Education.

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

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

Ten hours a week—3 units.

Miss Stevenson.

310. History of the Theatre to 1700. (B)

A study of the theatre from its beginnings in primitive ritual, through Classical and Mediaeval theatre, to the merging of the Graeco-Roman, Christian and folk traditions in the theatres of Italy, England, France and Spain in the 16th and 17th centuries. Emphasis will be placed on the various arts of the theatre and their relation to the social, religious and philosophical movements of the periods studied.

Textbook: Gassner, *Masters of the Drama,* Crown.

Ten hours lectures a week—3 units.

Mr. Soule.

Note: Theatre 320 is proposed for 1967.

ZOOLOGY

301. Invertebrate Zoology. (C)

Morphology; taxonomy; life histories of invertebrates with special reference to marine forms. Field work is considered essential, and the time involved is over and above that of the scheduled lectures and laboratories. It will not be possible for a student to enrol in any other summer session course.

Limited to 36 students.

Prerequisite: Biology 101 or Zoology 105 or equivalent.

Textbooks: Borradaile and Potts, *The Invertebrate,* 4th ed., Macmillan; Bullough, *Practical Invertebrate Anatomy,* 2nd ed., Macmillan.

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

Mr. Webber.

416. Biology of the Vertebrates. (C)

The evolution and major features of the terrestrial vertebrates. The form and function of terrestrial vertebrates as related to their distribution and abundance. The laboratory part of the course includes the classification, life histories, and ecology of terrestrial vertebrates with particular attention to those of British Columbia.

Prerequisite: Biology 101 or Zoology 105 or equivalent.

Textbooks: O. S. Pettingill, *A Laboratory and Field Manual of Ornithology,* Burgess Publishing Co., 3rd ed.; E. L. Cockrum, *Laboratory and Field Manual*

or Introduction to Mammalogy, 2nd ed., Ronald Press Co.; B. P. Glass, *A Key to the Skills of North American Mammals*, 1st ed.; Cowan and Guiget, *The Mammals of British Columbia*, B.C. Provincial Museum, 2nd ed.; Peterson, *A Field Guide to Western Birds*, Houghton Mifflin Co., 2nd ed.; G. C. Carl, *The Reptiles of British Columbia*, B.C. Provincial Museum, 3rd ed.

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

Mr. Heinsohn.

SUMMER SESSION REGISTRATION — 1965

Credit Courses

MEN	WOMEN	TOTAL
3206	3024	6230

CORRESPONDENCE CREDIT COURSES

Students are reminded that the following correspondence courses are available: Commerce 151, Education 412, English 200, English 303, English 321, English 392, French 210, German 200, History 212, Philosophy 100, History 413, Political Science 200, Psychology 100, Psychology 301.

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

A full descriptive booklet on the foregoing courses, including texts required, may be obtained by writing to the Secretary, Correspondence Courses, Department of University Extension.

DEPARTMENT OF UNIVERSITY EXTENSION

SUMMER SCHOOL PROGRAMME

In an endeavour to create a greater opportunity for lifelong learning the Department of University Extension announces an expanded SUMMER PROGRAMME in CONTINUING EDUCATION for 1966.

In previous years the summer programme has concentrated in the areas of fine arts and public affairs. This year the broadened programme will include the following areas:

Education	Business
Fine Arts	Travel
Communications	Languages
Natural Sciences	Public Affairs
History	Social Work

Most courses will be offered in the daytime during the month of July. Intensive French language classes will extend through the full University summer session, seven weeks.

A brochure with complete information on the SUMMER PROGRAMME will be available in late spring. Contact the Department of University Extension, University of British Columbia, Vancouver 8, B.C.

SUMMER SCHOOL ON PUBLIC AFFAIRS

A three-day seminar on public affairs will be presented during Summer Session this year. In addition, a series of five Tuesday evening public affairs lectures will be open to the public.

A brochure with full details will be available May 1. Copies of this brochure may be obtained by writing to the Director, Summer School on Public Affairs, Department of University Extension, The University of British Columbia, Vancouver 8, B.C. (Telephone 228-2181).

Seminar on India Today — July 7, 8 and 9

Continuing the policy of presenting annually a study of a distinctive country or area, the Summer School on Public Affairs will, this year, focus attention on the Indian sub-continent but with the major emphasis on India.

In the state of physical and economic exhaustion in which she found herself after World War II, Britain was unwilling and unable to resist the intense pressures of Indian nationalists who demanded independence. Nor was Britain able to withstand the divergent demands coming from within the nationalist movements. When, on August 15, 1947, independence was granted, two nations, not one came into being—the secular state of India and the officially Moslem state of Pakistan. Whether partition could have been avoided is now a moot point but it could only harden the enmity between Hindu and Moslem, a factor which has kept the two nations almost continuously at odds.

In the ideologically polarized world of the 1950's, India under Nehru was able to project the image of spokesman for the underdeveloped "third world" which desired to remain neutral in the world power struggle. To the West also, India was to be the prime example of Asian development within a democratic framework in contrast to the totalitarian approach of the People's Republic of China.

In the past several years a series of events has seriously tarnished this image. Continuing serious economic and social problems have hampered India's attempt to set up a viable democratic state. The border clashes with China and the more recent outbreak of hostilities with Pakistan over Kashmir have emphasized her military weakness and forced her to retreat from her neutralist position.

The problems of India are typical of much of Asia and as such, are of critical importance to the world community. For this reason alone Canadians should take an active interest in developments in the area. In addition however, our interest is heightened by the fact that India, Pakistan and Ceylon are sister nations

within the Commonwealth and have been, through the Colombo Plan, the primary focus of our foreign aid efforts.

In addition to examining the historical and cultural background of the subcontinent, this seminar will attempt to explore and assess the problems and prospects, both intra-national and international, confronting these nations.

PUBLIC AFFAIRS LECTURE SERIES

A series of five public affairs lectures designed to provide an opportunity for all interested persons to hear distinguished visitors to the University of British Columbia campus will be held on Tuesday evenings, in Room 106 of the Buchanan Building at 8 p.m. Specific dates and topics will be announced later.

AN INTENSIVE COURSE IN SPOKEN FRENCH

Advanced registration only. Please make cheque payable to the University of British Columbia and mail to the Extension Department, The University of British Columbia, Vancouver 8, B.C.

Voix et Images de France — Premier Degré

After a number of years of experimentation and research the language institute at St. Cloud near Paris has developed a radically new method of rapidly acquiring fluency in foreign languages using the latest audio-visual method developed by linguists for language learning. Part I, the first sixteen lessons of the Premier Degré, *Voix et Images de France*, enables a student with no previous knowledge or ability to obtain a sound basis for understanding and speaking French. It will be of equal value to those whose previous studies in French have been grammatical rather than oral. Part I is complete in itself though only a limited proficiency will be attained at the end of it. Entry into Part II, lessons seventeen to thirty-two, will be restricted to those who have successfully completed Part I or its equivalent. This course will be of special value to civil servants, airline personnel, teachers, faculty members and others wishing to improve their competency in the language.

Classes will be limited to 22 students and instruction will be five days per week for the period of the summer session. Classes will be organized only if seventeen or more wish to enrol.

Instructors: Mrs. Catherine Rosetti, Miss Olga Kempo, Miss Maureen Cromie.

Section I — Part I and Part II, lessons 1 - 32.

Prerequisite: At least one year High School French.

9 a.m. - 2 p.m. with an hour break for lunch.

140 hours of instruction.

Fee: $140.00, includes records and books.

Section II — Part I, lessons 1 - 16.

Prerequisite: At least one year High School French.

70 hours of instruction.

Fee: $70.00, includes records and books.

Section III — Part II, lessons 17 - 32.

Prerequisite: Part I or its equivalent.

12:30 - 2:30 p.m.

70 hours of instruction.

Fee: $70.00, includes records and books.

Voix et Images de France — Deuxième Degré (Advanced)

Throughout the thirty-two lessons of Voix et Images de France all conversations originate from a visual situation. Students have been helped further by audio-visual aids of take-home records and picture books. The Deuxième degré offers the student an opportunity to increase his conversational ability; however at this stage the pictures and records are withdrawn. More and more the student relies

on his auditory ability to acquire mastery of taped dialogues which are the bases for conversation. At this level the dialogues emphasize mastery of more idiomatic forms as well as a vocabulary pertaining to discussion, opinion and judgment. Students receive a copy of each dialogue upon completion of each lesson. The number of lessons to be covered during the course will depend on the ability of the class as a whole to master in depth each conversational lesson.

Class will be limited to 22 students and instruction will be five days per week for the period of Summer Session. Class will be organized only if seventeen or more wish to enrol.

Instructor: Mr. Alexander Snowdon.

Section IV — Advanced

10:30 - 12:30 p.m.

Prerequisite: Premier Degré, University French or its equivalent.

70 hours of instruction.

Fee: $70.00.

EDUCATIONALLY DEPRIVED CHILDREN

A Two-Week Residential Workshop, August 2 - 12, 1966 at the University of B.C.

The objectives of this workshop will be to explore:

—the meaning of educationally deprive dchildren.

—ways and means of understanding the needs of educationally deprived children, which will include an examination of their cultural and physical environment.

—means of assessing their needs.

—the development of appropriate instructional materials and methods.

A combination of methods—lectures, discussion groups, independent study and field trips—will be employed during the workshop.

By taking this workshop and an additional week of classes, it will be possible to obtain credit for Education 336. Those wishing credit for Education 336 in this way should contact Professor Grace Bredin, The Faculty of Education, The University of British Columbia.

Sponsored by the **Association for Childhood Education International** in co-operation with the Faculty of Education and the Department of University Extension. Further information may be obtained by writing to the Education Programme, Department of Extension, The University of British Columbia.

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 summer session and extra-sessional courses as well as by full-time attendance at the university for one full academic year.

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

ADVANCED DRAWING WORKSHOP

MR. BRUCE BOYD, Vancouver School of Art

Monday through *Thursday*, July 4 to 28, 1:30 to 4:00 p.m.

Room 206, Frederic Lasserre Building, U.B.C.

Fee: $50.00.

Class limit 20 students.

A study of the most important concepts in drawing from the Renaissance to the present and an examination of the techniques which were used to develop them.

Problems will be presented to help each individual clarify his own attitude towards drawing and to develop an awareness of the reality created by means of line, tone and texture as opposed to the imitation of light and shadow on objects.

Discussions will be held on the significance of anatomy to the artist, personal reactions to space and movement, the creating of three dimensional illusions and depth, the use of symbolism and other problems which may arise during the working sessions. Every effort will be made to help the students increase their sensitivity to what they see and to develop the skills and knowledge to enable them to make a statement in terms of drawing.

PAINTING WORKSHOP

MR. IAIN BAXTER, Department of Fine Arts, U.B.C.

Tuesdays and *Thursdays*, July 5 to August 18, 7:30 to 9:30 p.m.

Room 206, Frederic Lasserre Building, U.B.C.

Fee: $50.00

Class limit 20 students

The emphasis will be upon individual awareness and involvement into a personal idiom of expression. All types of media will be allowed with each person being encouraged to work out a program which will satisfy his personal vision. Landscape, still life and figure painting will be done.

POTTERY FOR BEGINNERS

MR. WAYNE NGAN, Vancouver School of Art

Monday through *Thursday*, July 4 to 28

Pottery Hut 82, Acadia Camp

Fee: $60.00

Class limit 12 students

Section I: 1:30 - 4:00 p.m.

Section II: 7:30 - 10:00 p.m.

Mr. Ngan will teach the basic rudiments of ceramics and will assist students individually according to their needs and abilities. The content of the course will consist of hand-building, throwing, ceramic sculpture or painting, tile work, design, clays and glazes and other concepts of ceramics.

TEACHER-IN-SERVICE SHORT COURSES

The British Columbia Teachers' Federation, in co-operation with the Department of University Extension ,will sponsor non-credit short courses for the tenth year. These will be practical courses of the workshop type and will mainly be intended as preparation for curriculum changes.

Registration will be limited to ensure the full participation of the course members. Lectures, demonstrations, and group discussions will be used. Most courses will be held on campus, Monday to Friday, for five hours each day. Time, dates, locations and other information will be announced in *The B.C. Teacher* at a later date.

Present plans are for courses to be offered in the following:

Elementary Arithmetic
Elementary Language Arts
Mathematics
Secondary English
Secondary Sciences (Chemistry, Biology, and Junior Secondary)
Educational Television
Team Teaching.

Register with, and seek additional information from the
B.C. Teachers' Federation,
1815 West Seventh Avenue,
Vancouver 9, B.C.