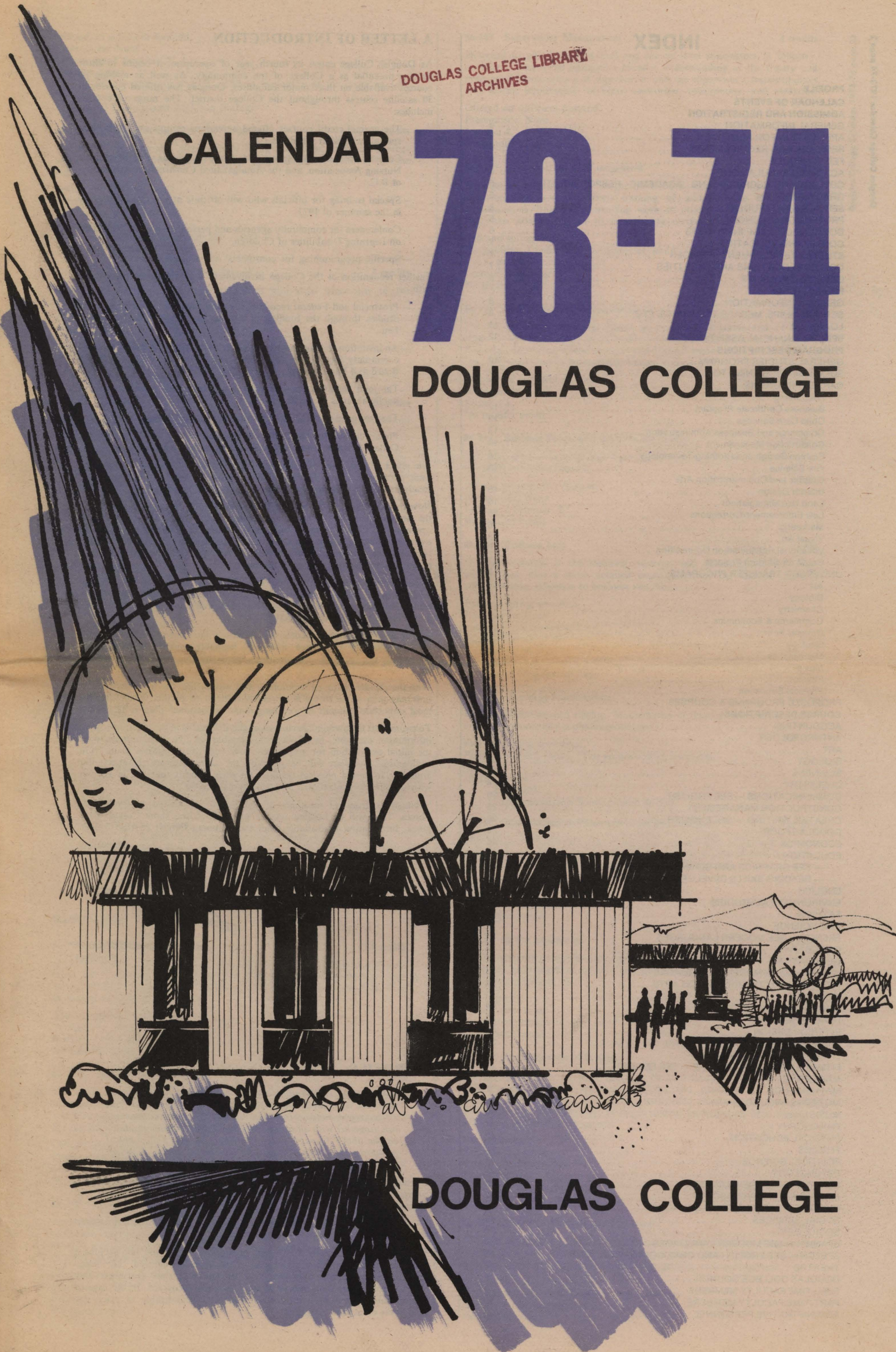


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73-74

DOUGLAS COLLEGE



DOUGLAS COLLEGE



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## A LETTER OF INTRODUCTION

As Douglas College enters its fourth year of operation, it begins to show its true potential as a College of the community. As well as making its courses available on three major campuses, Douglas has offered courses at 30 satellite centres throughout the College district. The range of courses includes:

- The normal credit courses offered at various centres on regular and special swing-shift schedules.
- Contract courses for specialized groups such as the Psychiatric Nursing Association, and the Amalgamated Construction Association of B.C.
- Special training for officials who will officiate at the Canada Games in the summer of 1973.
- Conferences for community agencies and personnel, e.g., A Workshop on Learning Disabilities of Children.
- Specific programming for consumers' and women's groups.

Further recognition of the College involvement with the community came with:

- Provincial and Federal recognition of the Institute of Environmental Studies through the funding of various projects on the Serpentine Fen.
- An invitation to take part as a member of the planning group studying community facilities in Richmond, in conjunction with the School Board and Parks Board.
- The joint signing of co-operative agreements with a number of the public libraries in our area.
- The expanded use of College facilities by outside groups.
- Press releases by various municipalities noting a desire for the College to locate a campus permanently in their area.

The effect of the above developments is reflected in a steadily increasing total enrolment at the College. This is most obvious in the rapid and steady increase in part-time registration in both credit and non-credit courses.

Now that the College has become firmly established, the next major task is the development of permanent campuses from which the College may operate. The College Council has submitted to the Minister of Education a proposal for a multi-campus development that will see the establishment of two or three permanent campuses in the next few years, expanding to a potential seven-campus system in the future.

These centres have been chosen to allow easy access to the College facilities by all residents of the College region. They will be comprehensive centres offering vocational, technical-career, and university-transfer programs on an extended-day timetable.

It is anticipated that each centre will be closely integrated with the community in which it is located and will probably contain a number of community-use facilities — gymnasium, pool, theatre, museum, art gallery, etc.

With the rapidly changing technology and way of life, the form that education may take in the future is extremely difficult to predict. Therefore, the most important element in any long-range educational plan is flexibility.

To ensure that the planning personnel of the College have the most up-to-date information available, the College has established five Task Forces to do the initial exploration for a comprehensive educational master plan. Upon completion, this plan will be used by the administrators, planners, and architects to design physical facilities on each campus that are in keeping with identified organizational and educational needs.

Submissions from all members of the public are invited to these Task Forces. They will be holding regular meetings in the three College campuses. Information is available from the Planning Officer of the College.

Sincerely,



George C. Wootton  
Principal

## A PROFILE:

*After careful deliberation, and in consultation with Faculty members (including deans, chairmen, and directors) and elected representatives from the Student Body, the administrators (together with all members of the College Council) adopted the above 11-point policy statement as the philosophical position most likely to enhance the climate for the advancement of the educational goals of Douglas College.*

- 1 Douglas College is a comprehensive institution offering academic, occupational, technical, and general studies programs and courses in response to community needs.
- 2 College courses and facilities are fully accessible to both full-time and part-time students.
- 3 The College is basically a two-year institution and should not become a degree-granting institution. However, it must be recognized that many programs may require only one year or less and that a student may elect to spend more than two years on a two-year program. In the case of general studies, it is both impractical and often undesirable to place any time limits on a given program.

4 The College has an "open-door" policy. This offers adult citizens of all ages the opportunity to participate in post-secondary education in one form or another. This policy also provides satisfying incentive and opportunity to persons who may have left school early. To ensure that this does not become a "revolving door" concept, Douglas College offers strong counselling as well as remedial and student-aid services.

5 Douglas College is a major community centre for cultural, social, athletic, and academic activities. In this way, the College can continue to enrich the "life" of its neighborhood.

6 Facilities that lend themselves to wide community use should be developed in consultation with local municipal authorities and specific community organizations. Subject to changes in legislation, this development program could then include the possibility of financial co-operation between Douglas College and the 13 municipalities it serves.

7 The student population of the College shall not exceed 4,000 students on any given campus. Since the students' ability to identify with and relate to the College is of prime importance to the educational process, the continuing development of the multi-campus concept is of major concern at Douglas College.

8 The College must continue to be governed by a local council.

9 Fees should remain moderate and be scaled to encourage maximum participation in seminars, accredited courses, programs, non-credit offerings, and the Douglas College Institutes.

10 To avoid duplication of services, the College shall continue to co-ordinate its offerings with other institutions and agencies in its community.

11 Douglas College facilities and personnel shall continue to be available to recognized groups which address themselves to stated educational and kindred problems of the community.

#### PROPOSED CALENDAR OF EVENTS 1973-74

##### Spring 1973

|   |                 |                   |
|---|-----------------|-------------------|
| Registration                              | Sat.-Mon.-Tues. | 13-15-16 January  |
| Classes Begin                             | Wednesday       | 17 January        |
| Last Day to Add a Course or Late Register | Friday          | 26 January        |
| Mid-Semester Reports                      | Friday          | 9 March           |
| Last Day to Drop a Course                 | Friday          | 23 March          |
| Easter Holidays                           | Fri.-Sun.       | 20-23 April       |
| Examinations                              | Mon.-Tues.-Wed. | 30 April, 1-2 May |
| Last Day of Classes                       | Wednesday       | 2 May             |
| College Faculty Development               | Mon.-Thur.      | 7-8-9-10 May      |
| Departmental Faculty Development          | Mon.-Wed.       | 14-15-16 May      |

##### Fall Semester 1973

|   |                  |                   |
|---|------------------|-------------------|
| Orientation for New Faculty               |                  | 1-31 August       |
| College Faculty Development               | Wed.-Thur.-Fri.  | 22-23-24 August   |
| Registration                              | Tues.-Wed.       | 4-5 September     |
| Classes Begin                             | Thursday         | 6 September       |
| Last Day to Add a Course or Late Register | Wednesday        | 19 September      |
| Thanksgiving Holiday                      | Monday           | 8 October         |
| Mid-Semester Reports                      | Friday           | 26 October        |
| Last Day to Drop a Course                 | Friday           | 9 November        |
| Remembrance Day Holiday                   | Monday           | 12 November       |
| Last Day to Withdraw Completely           | Friday           | 14 December       |
| Last Day of Classes                       | Tuesday          | 18 December       |
| Examinations                              | Wed.-Thurs.-Fri. | 19-20-21 December |
| Last Day of Semester                      | Friday           | 21 December       |
| Christmas Holidays                        | Tues.-Wed.       | 25-26 December    |
| Grades Due                                | Thursday         | 27 December       |
| New Year's Holiday                        | Tuesday          | 1 January, 1974   |

##### Spring Semester 1974

|   |                  |                      |
|---|------------------|----------------------|
| College Faculty Development               | Tues.-Wed.-Thur. | 8-9-10 January, 1974 |
| Registration                              | Mon.-Tues.       | 14-15 January        |
| Classes Begin                             | Wednesday        | 16 January           |
| Last Day to Add a Course or Late Register | Wednesday        | 30 January           |
| Mid-Semester Reports                      | Friday           | 8 March              |
| Last Day to Drop a Course                 | Friday           | 22 March             |
| Easter Holidays                           | Fri.-Sun.        | 19-21 April          |
| Last Day for Complete Withdrawal          | Friday           | 26 April             |
| Last Day of Classes                       | Tuesday          | 30 April             |
| Examinations                              | Wed.-Thur.-Fri.  | 1-2-3 May            |
| Last Day of Semester                      | Friday           | 3 May                |
| College Faculty Development               | Tues.-Fri.       | 7-8-9-10 May         |

## ADMISSION and REGISTRATION

### General Information

#### Academic Qualifications

You are eligible for admission if:

- You have complete B.C. secondary-school graduation on any program, or the equivalent from another school system;
- You are deficient in not more than one course for B.C. secondary-school graduation, or the equivalent from another school system;
- You are 19 years of age or older on the first day of the current semester and have not been in regular daytime attendance at school for at least one year.

If you do not meet one of the above requirements, you are eligible to apply for admission as a "special" student. Applications for admission as a "special" student will be reviewed by the Admissions and Appeals Committee.

#### Residence Requirements

Douglas College is operated primarily for qualified residents of the eight school districts (Burnaby, New Westminster, Coquitlam, Langley, Delta, Surrey, Maple Ridge, and Richmond) which compose the College Region. If you live outside the College Region, you may be admitted on a "space available" basis at a higher tuition fee. In cases where career programs are not offered at other community colleges, the higher tuition fee is not charged.

You qualify as a resident if:

- You are under 19 years of age, reside inside or outside the College Region on the first day of the current semester, and your parents or legal guardians have been municipal taxpayers within the College Region for at least three months;
- You are 19 years of age or over on the first day of the current semester, are a municipal taxpayer in the College Region, or have been a resident of the College Region for at least three months prior to the current semester.

If your resident status is in question, you may be required to provide documentary or other proof to obtain admission.

#### Mature Student Admission

Douglas College has a commitment to the adult student, whether full-time or part-time. If you are 19 years of age or older on the first day of the current semester, have been out of school for at least one year, and have not completed B.C. secondary-school graduation (or its equivalent from another school system), you may still qualify for admission to Douglas College. Experience and training related to the courses you wish to take will be evaluated in assessing your application. The College will endeavor to provide courses appropriate to your interests, background, and goals. Depending on your education and experience, you may be advised to take courses offered by an adult-education division in our constituent school districts before being admitted.

#### Students from Other Countries

If you are a student from another country and have landed immigrant status, you are eligible for admission to Douglas College. (You are considered a landed immigrant if you have obtained a Canadian Immigration Identification Card No. IMM 1000.) Landed immigrants must also meet the College's residency requirements stated above. Since the language of instruction is English, those not proficient in both written and oral English may be ineligible for admission to certain courses and should consult the Student Development Centre.

#### Transfer Credit

If you have attended a recognized post-secondary institution, or if you have undertaken special training in a career area, you may be eligible to receive some advanced credit toward a Douglas College diploma or certificate. Advanced credit implies a reduction in the number of semester credits you must earn to qualify for a certificate or a diploma.

You may transfer up to a maximum of 30 semester credits toward a 60-credit Douglas College diploma, or up to 50 per cent of the number of semester credits required for a Douglas certificate. Transfer credits granted will be indicated in your letter of acceptance and recorded on your permanent record.

Douglas College cannot accept responsibility for the transferability of courses not completed at the College. If you have been granted transfer credit at Douglas and plan to transfer to a particular university following attendance at Douglas, you should consult with that university's admissions staff. If you have registered at a university and wish to attend Douglas on a university transfer program, you should consult with the university registrar's office regarding transfer of credit upon returning to that university.

#### Challenge Credit

As a Douglas student, you may obtain credit by challenging a course. This means undertaking written or oral examinations, or both, and other types of evaluation on the content of a specific course. In examining a student who has challenged a course, more than one faculty member will be involved at the department level. Examinations may be in the form of written work, a tape recording, a video tape record, or a movie film. The examination results will be filed by the department for permanent reference.

To challenge a course, you must make a formal application on the official Petition Form (obtainable from the Student Development Centre or from the Admissions Office on each campus) and return it to the Director of Admissions.

Your application will be referred to the department chairman, who will determine your eligibility. If your application is disallowed, it will be returned to you with an appropriate explanation; if it is allowed, you must pay a fee of \$10 to the Admissions Office. The examination and evaluation procedures will be set by the chairman (or his delegate) and a

faculty member or members teaching the subject. They will be responsible for the final assessment after you have completed the testing procedure. If you do not obtain a mark of C or above, this will be noted and the Director of Admissions informed. The failure will not be entered on your College transcript.

If you obtain a mark of C or above, the Director of Admissions will be notified and the mark and credits will be entered on your College transcript. If you are registered in a university transfer program, you are advised to check with the university to which you will transfer regarding the acceptability of "challenge credit" for transfer purposes.

To obtain permission to challenge, you must indicate how you have acquired the knowledge and skills required of the course you intend to challenge. You must be registered as a full-time or part-time student for the semester in which the challenge application is made.

You may challenge a maximum of three semester credits in any one semester, with a maximum of 12 semester credits being allowed to challenge for any two-year diploma program, or a maximum of six semester credits for any one-year certificate program. In some career programs, the maximum of 12 semester credits may be challenged in one semester.

Application for permission to challenge must be made within the first eight weeks of classes in any semester.

#### Advanced Placement

Douglas College recognizes that many of its students should be granted formal recognition for knowledge and skills already acquired. Advance placement involves permission for you to omit introductory or prerequisite courses on a given program, but it presumes that you will still have to complete the required total number of semester credits for a certificate or diploma. You will, however, increase your total number of optional credit hours of instruction.

The decision to grant advanced placement rests primarily with the teaching department. Application may be made directly to the department chairman, or to the Director of Admissions who will refer it to the department concerned. The chairman and one appropriate faculty member from his department will evaluate each applicant's knowledge and skills, and then notify the Director of Admissions if a recommendation for advanced placement can be made. Your application must be submitted on the authorized Petition Form.

#### Interviews

In some cases, interviews may be required as part of the admission process, particularly in career programs. An audition is required for admission to the music programs.

#### Enrolment Limitation

The College may be obliged to limit enrolment in certain programs or courses, and may cancel or revise any of those listed. Courses listed in the course descriptions section of this Calendar are the complete offerings, although not all of them are available in every semester.

#### Medical Examination

A medical examination is not required for admission. However, if you have a medical condition which you feel the College should know about, please provide this information to the Admissions Office.

## APPLICATION FOR ADMISSION

Before applying, study this Calendar and then consult with admissions and counselling staff, who will be pleased to discuss the College programs with you and provide assistance in planning for and selecting courses appropriate to your individual interests and goals. Counsellors and admissions personnel are available on the three campuses; feel free to contact them.

|                              |          |
|------------------------------|----------|
| New Westminster campus ..... | 521-4851 |
| Surrey campus                |          |
| — Counsellors .....          | 588-4411 |
| — Admissions .....           | 588-6404 |
| Richmond campus .....        | 273-5461 |

Admissions staff will be visiting secondary schools in the College Region just before each semester begins, to provide information about the College and to answer questions.

#### How to apply

- Complete the Application for Admission form, which is available at any one of the three campuses and at senior secondary schools in the College Region. Return the completed form to: Director of Admissions, Douglas College, P.O. Box 2503, New Westminster, B.C.

PLEASE NOTE: Your application cannot be processed unless all questions on the form are answered.

- Your application should be accompanied by official transcripts from secondary schools and any institution of higher education you have attended. All transcripts and other documents filed in support of your application become the property of the College and will not be returned. Original documents which are irreplaceable should not be sent. Certified copies of the original will be accepted. Confirmation of admission status cannot be given until all documents have been submitted.

#### When to Apply

You may commence studies at the beginning of any semester. You should apply for admission well in advance of the registration date for the semester in which you will enter the College. (See Calendar for registration dates.)

#### Acceptance of Application

Official notification of acceptance will be issued by the Director of Admissions by mail only.

Douglas College's primary responsibility is that of serving the educational needs of students who reside within the College Region. If you live within this region you will be given first priority for acceptance. However, be-

cause of the large number received, applications must be submitted by June 30 to receive priority consideration. After June 30, qualified applicants will be accepted on a first-come, first-served basis regardless of place of residence.

## REGISTRATION REQUIREMENTS

To register, you must have submitted an Application for Admission form and have received a Certificate of Eligibility to Register from the Admissions Office. Your copy of the latter form must be presented for admission to the Registration Hall. You cannot be admitted without the form, nor at times other than those specified.

#### New Students

When your application is accepted, you will receive by mail a Certificate of Eligibility to Register for a specific program. If on receipt of such notice you wish to change your program of studies, you must obtain a revised notice of eligibility from the Admissions Office before registering.

#### Returning Students

If you satisfactorily complete a semester at Douglas, you will receive another Certificate of Eligibility to Register from the Admissions Office before you re-register. Should you not receive this, please contact the Admissions Office prior to registration. Students who do not satisfactorily complete a semester at Douglas may be placed on academic probation or may be asked to withdraw.

#### Course Selection

You may use the course selection portion of your Certificate of Eligibility to Register form to make a preliminary choice of courses. The Calendar should aid you in your selection before you actually register. Department chairmen, program co-ordinators, and counsellors will also be available before registration to help you confirm your course selection and to assist you with a minimum of difficulty.

#### Registration

Registration will take place on the dates and at the times indicated on your Certificate of Eligibility to Register. You must complete your registration in person. Part-time students may register at special times, as announced at the beginning of each semester.

The College staff will assist in every possible way to ensure that you are registered for courses in which you are interested. If you plan to transfer to another institution after attendance at Douglas, the admissions and counselling staff will assist in planning for such transfers.

PLEASE NOTE: Ultimate responsibility for the accuracy and completeness of your timetable of courses and registration rests with you. You cannot receive credit for a course in which you are not properly registered.

New students are required to view an orientation film and are requested to participate in a testing program as part of the registration process.

#### Late Registration

You may register late for courses, on a space-available basis, up to two weeks after classes have started. A late registration fee of \$10 will be charged.

#### Course Changes — During First 14 Days

If you wish to withdraw from or add a course, or change a section, you must apply to the Admissions Office within two weeks after classes have commenced for each semester. Courses dropped with approval will not appear on your official transcript. You are required, however, to complete a Notice of Change form for any change you make.

#### Course Withdrawal — After 14 Days

If you wish to withdraw from a course after 14 days from the beginning of instruction and before 14 days after the midterm date, you should apply to the Admissions Office to complete a Notice of Change form. Any courses dropped will appear on your official transcript with a W grading.

#### Withdrawal from College

If, after registering, you decide to withdraw, you must fill out a Complete Withdrawal Notice form, obtainable from the Admissions Office. Fees will be refunded only if you follow official withdrawal procedures. You may not withdraw after the last day of class in the semester.

#### Change of Address

Please notify the Admissions Office of any change of address so that correspondence and grades may be mailed to you without delay. Changes in telephone numbers and names of persons to contact in emergencies, etc. should also be submitted.

## FEE SCHEDULE

Unless otherwise authorized, fees are payable in full upon registration. If your fees are to be paid by an agency a letter to this effect is required upon registration.

#### Students Residing Within Douglas College Region

|   |       |
|---|-------|
| Full-time students (taking 12 or more semester credits each semester) ..                        | \$100 |
| Part-time students (taking fewer than 12 semester credits); cost for each semester credit ..... | \$ 9  |
| Senior citizens (taking fewer than 12 semester credits); cost for each semester credit .....    | \$ 3  |
| Student Association fee (full-time students) each semester .....                                | \$ 5  |
| Student Association fee (part-time students) each semester .....                                | \$ 3  |

#### Students Residing Outside Douglas College Region

|   |       |
|---|-------|
| Full-time Students (taking 12 or more semester credits); each semester ..                       | \$200 |
| Part-time students (taking fewer than 12 semester credits); cost for each semester credit ..... | \$ 9  |

|  |      |
|--|------|
| Senior citizens (taking fewer than 12 semester credits); cost for each semester credit ..... | \$ 3 |
| Student Association fee (full-time students) each semester .....                             | \$ 5 |
| Student Association fee (part-time students) each semester .....                             | \$ 3 |

#### Student Association Fees

Proceeds of these fees are used by the association to provide activities for students, both full-time and part-time. These activities are decided by the students; the fees, which are set by the association representatives and approved by the College Council, are considered part of the registration fees.

#### Other Fees

|  |      |
|--|------|
| Challenge fee .....  | \$10 |
| Late registration fee — all students .....   | \$10 |
| Equipment fees: In certain courses you may be required to pay equipment fees and will be so advised at registration. |      |

PLEASE NOTE: Refunds will not be processed or evaluated until six weeks after the beginning of the semester to allow sufficient time for file processing.

#### Tuition Fee Refunds

Refunds are calculated from the day on which the withdrawal form is submitted to the Admissions Office. Tuition fee refunds will be based on the number of semester credits from which you withdraw.

Student Association and late registration fees will not be refunded.

#### Scale of Refunds for Complete Withdrawal

- a) Withdrawal within 14 days of the beginning of instruction — 80 per cent of tuition fee;
- b) Withdrawal between the 15th and 30th days from the beginning of instruction — 50 per cent of tuition fee;
- c) Withdrawal after the 30th day from the beginning of instruction — no refund.

#### Scale of Refunds for Course Reduction

If you reduce the number of semester credits you are taking within 14 days of the beginning of instruction, you may receive full refund of the difference between the adjusted tuition fees and tuition fees paid at registration. No refund will be made for course reduction after 14 days.

## ACADEMIC REGULATIONS

### DEFINITIONS:

#### Semester Credits

The standard unit of credit represents a minimum of one hour a week for each term of class instruction. Most college-level courses carry three semester credits, although they may require more than three hours of classroom and laboratory work, seminars, etc. Certain courses have variable credit, i.e. you may register for a particular course and commit yourself to any one of the credit values assigned to it. In selecting the number of credits for which you will register, you should consult with the instructor to determine the amount of work required for each credit value. You must also obtain the instructor's written approval on your registration form.

#### Full-time Students

If you register for 12 or more semester credits, you will be considered a full-time student and will be charged a maximum of \$100 per semester in tuition fees (students residing within the College region only).

#### Part-time Students

If you register for fewer than 12 semester credits, you will be considered a part-time student and will be charged at the rate of \$9 per semester hour of credit (\$3 per semester hour for senior citizens).

#### College Diplomas

When you complete the requirements of a two-year (four semester) program, you will receive a Douglas College diploma.

#### College Certificates

When you complete a special program of less than two years' duration, you will receive a Douglas College certificate.

## COLLEGE TRANSCRIPTS AND ACADEMIC RESPONSIBILITIES

You will receive, upon written request, an unofficial transcript of marks obtained in your courses. Since student records are confidential, an official transcript will be issued to other agencies or officials only upon your written request. If you have not made satisfactory arrangements with the Bursar's Office to meet any outstanding debt to the College, no transcript will be issued.

Application for a transcript should be made at least one week before it is required.

#### Transcript Fees

Three copies are free. A \$1 charge is made for each additional copy.

#### Faculty Responsibility

Faculty members are available for consultation during posted office hours or by arrangement. They will help in every way possible to make your educational experience at Douglas a successful one.

#### Student Responsibility

It is your responsibility to attend classes regularly, to keep your work up-to-date, and to complete assignments as required. Your final grades are based largely on your completed assignments, tests, and class participation. It is expected that students will conduct themselves as responsible citizens.

### Statement of Grades

You will receive an official statement of grades at the end of each semester. A form will be provided for you to obtain a midterm assessment from your instructors approximately eight or nine weeks after the beginning of each semester.

PLEASE NOTE: All obligations relating to fees, library books, rentals, or borrowed equipment must be met before any statement of grades, transcripts, or diplomas will be released.

Errors and omissions on the statement of grades (or transcript) should be reported immediately to the Admissions Office.

### Scholastic Probation

When you register, you are making a commitment to complete your program of courses in that particular semester. Since there will be a considerable demand for admission, you must complete most of your course commitments to retain your eligibility to reregister.

### Probationary Students

If you do not complete your course commitments in any semester, with a Grade Point Average (GPA) of more than 1.50, you may be placed on Scholastic Probation.

To have your name removed from the Scholastic Probation list, you must complete your course commitments during your probationary semester with a Grade Point Average (GPA) of more than 1.50. If you do not, you may be considered ineligible to reregister unless you change your program to one in which you have more opportunity for success.

If ineligible to reregister, you may reapply for admission after missing one semester. Application for readmission requires a personal interview with the admissions staff and (or) a counsellor.

If you are placed on probation, you

- a) Must participate in a program not exceeding five hours per week; and
- b) Are limited to enrolment in 12 semester hours of credit.

Faculty will do everything possible to assist with your studies so that you can meet your course commitments.

### Student Identification Cards

Loss of your student identification card should be reported to the Admissions Office. Replacement cost is \$2. If you withdraw from the College, your card must be returned to the Admissions Office with your withdrawal notice.

### Graduation Requirements

To meet graduation requirements, you must complete the required course work for a particular College diploma or certificate program, including electives.

Required course work for most university transfer programs and the general studies program includes 60 semester credits. You may select courses from any of the broad areas of the humanities, social sciences, natural sciences, English, and communications. Graduation requirements for particular career and music programs are contained in each of the career program descriptions.

### Course Load

A normal course load for a full-time student is 15 semester credits. Some programs may require more than a normal course load. If you are not enrolled in such a program and wish to take more than 15 semester credits in one semester, you must first obtain permission of the Director of Admissions. Normally, a B average will be required before permission to carry extra courses is granted.

### Auditing or Visiting Other Classes

As a registered student, you may wish to audit additional courses. These should be added to your registration form. If you are not registered but wish to audit a course, you must apply and register in the normal manner. All fees except student fees are charged.

Students may visit other classes from time to time by obtaining permission of the instructor concerned.

### Grading System

The following grading system will apply when evaluating your course work:

| Grade | Grade Points   | Explanation   |
|-------|----------------|---|
| A     | 4              | Consistently exceptional work.  |
| B     | 3              | Consistently good work.   |
| C     | 2              | Consistently average work.  |
| N     | 0              | No credit. Student did not meet requirements of the course.   |
| P     | 1              | Pass. Course requirements successfully completed. This grade does not permit student to pursue another course for which the graded course was a prerequisite.   |
| W     | Not Calculated | Withdrawn. Student withdrew from course by submitting an official withdrawal form before specified deadline.  |
| I     | Not Calculated | Incomplete. Course requirements not yet completed. Written arrangements made with instructor to complete requirements, which may include an examination, assignment, term paper, or an undemonstrated skill. The 'I' will be converted by instructor to another grade by the end of the stated time period (maximum of one semester). |



**"I" Grade Information**

The "I" grade is a procedure to assist a responsible student to carry out his commitments and is not intended to encourage a student to procrastinate. It is reasonable, therefore, to expect that it will not be used frequently. Withdrawal procedure may well be far more realistic for many students. Guidelines used are:

- a) Any "I" mark is subject to review by the department chairman, whose signature is required on the contract. Student applications for "I" grades should be received no later than the deadline for application for withdrawal from a course.
- b) The following criteria are used by instructors in deciding whether to agree to a contract:
  - i) Previous work in the course should have been at a reasonably satisfactory level;
  - ii) Students has been prevented from completing requirements by some abnormal circumstance or juxtaposition of other responsibilities, such as embarking on a project whose completion turns out to be more time-consuming than originally conceived;
  - iii) An emergency situation such as illness or accident has prevented student from completing one or more of the course requirements.
- c) A student receiving an "I" grade will be allowed to re-register in the subsequent semester only after an examination of his course load and his "I" contract by a counselling and (or) admissions team at registration. Thus the student must bring his "I" contract to registration along with his statement of marks.
- d) It is expected that most students will complete their "I" contracts within two to four weeks after they are made.
- e) There is no limit to the number of "I" grades that a student may carry.

**Grade Point Average**

Grade Point Averages (GPA) will be reported on all transcripts of marks. The "Term CPA" is the sum of the grade points earned in a semester divided by the number of credits taken in that semester. The "Cum GPA" is the sum of the grade points earned in all semesters of attendance divided by the total number of credits taken in all semesters.

**Appeals and Petitions**

It is anticipated that some students will have reason to request changes in academic regulations or program requirements affecting them; also that a student may wish to appeal a decision which affects him personally.

Formal appeals must be made on the Petition Form, which is available at the Admissions Office and Student Development Centre. You will be given the opportunity to appear before the committee, which will review your appeal, to present or defend your case.

Should you wish to appeal a decision, the following steps should be taken:

- a) Discuss your appeal with the instructor, faculty member, department chairman, director, etc., concerned. If appeal is granted, it ends there;
- b) If your informal appeal is not granted, you may submit a formal appeal on the Petition Form to the Admissions and Appeals Committee through the Admissions Office. If formal appeal is denied, it ends there;
- c) In cases involving a change of grade, the appeal may be referred to a faculty committee which will re-evaluate your work. This committee will consist of three faculty members — one chosen by the faculty member concerned; one by the department chairman or his designate; and one by you. Specific guidelines are laid down for this committee by the Admissions and Appeals Committee. The committee's decision will be referred to the Admissions and Appeals Committee for ratification and you will be informed immediately of the final decision.

Petitions and appeals will be heard by a standing committee of the College, consisting of the Director of Admissions (chairman), Dean of Curriculum and Instruction, one elected faculty representative, and one student representative appointed by the Student Government. In addition, a counsellor sits on the committee as a non-voting member. In adjudicating a petition and appeal involving a faculty member, that member and his chairman are requested to attend the meeting.

**SERVICES FOR STUDENTS**

Douglas College offers a varied selection of educational programs. If you are to choose your courses wisely, the College believes you should be assisted in identifying your interests and aptitudes and in assessing your strengths and weaknesses. The College believes that you can develop personal initiative and responsibility for planning your future only when you have acquired adequate knowledge about yourself and your goals. Therefore, a wide range of student services is provided to help you to achieve maximum benefit from your experience at Douglas College. These include:

**Faculty Tutorials**

All faculty have been assigned office time to meet with students on an individual or small group basis. Please consult with faculty members regarding these tutorials.

**Career Information**

Each career program offers electives of a general or vocational nature so that you may direct your education toward one of several areas of employment. Transfer programs inherently contain a wide selection of subject areas as well as courses. A significant characteristic of a college education is that one may sample various fields, thus helping to direct one toward a specific career. Work experience after graduation will be of equal assistance.

Douglas College services will assist you in your choice of a career, but no service will provide an easy or final answer. The library offers extensive book and other materials to help you learn about various occupations. Faculty members also offer valuable advice in the area of their experience, and special tests are available through counsellors. Seminars and career meetings are held periodically, and representatives of Canada Manpower are available on and off campus to provide career information.

**Student Placement**

Every effort is made to enhance the employability of career program graduates. For example, a careful survey of the job market in the Greater Vancouver area was made before deciding to offer each program; thus, programs selected will provide graduates with knowledge and skills which are both relevant and in demand in business and industry.

The College expects to have part-time openings on all campuses and in various departments and sections which could suit some students' timetables. Full-time students will be given priority in filling such positions. These opportunities will be advertised on the campuses.

A Student Placement Office has been established in conjunction with Canada Manpower, through which trained counsellors will help in career counselling and in finding suitable employment opportunities for both graduates and undergraduates.

**Student Government**

Each of the three campuses elects students to a Campus Council. The purpose of such decentralized government is to meet the particular needs and interests of students. Representatives from each of these councils meet regularly with other elected officers as the Douglas College Student Council, so that interests of the student body as a whole may be considered.

A Student Society constitution has been approved by Victoria. This provides the structure within which the Student Council will strive to meet the needs and interests of students in all their College activities. Also, committees have been formed to help meet needs relating to athletics, club activities, communications, and social activities. Faculty members assist by taking part in student activities as requested. Provision has also been made for student participation on the various administrative committees.

**Professional Schools**

Training in a number of professional areas is offered at the various universities, in some cases at the graduate level. Students interested in specific professions should study the calendar of the appropriate university.

Both UBC and SFU offer programs in education and commerce. UBC has professional training in: physical education; recreation; fine arts (art, music, theatre); agriculture; applied science; engineering; architecture; dentistry; dental hygiene; forestry; home economics; law librarianship; medicine; rehabilitation; medicine; nursing; pharmacy; and social work.

**Douglas College Institutes**

The Douglas Institutes provide a means of co-ordinating the resources of faculty, students, and the college community into both structured and non-structured programs. These contribute to a better understanding of crucial problem areas often excluded from the formal disciplines.

The two most important problem areas confronting mankind today are the environment and international relations. There are numerous links between the two, since population growth, pollution, and conservation are international problems; and because the deep-seated causes of conflict and war are frequently, indeed usually, matters of territory and resources.

It is not enough to simply touch on these problem areas in the course of traditional studies. We must bring them into proper focus, stress them, and above all insist that whenever possible our work in Douglas is sufficiently practical to be of value to the College community.

Thus, the activities of the Institutes are open to all. In addition, the Institutes reach out to a wide public by using the communications media, field study centres open to the public, and programs designed as a community service for casual visitors to the campuses.

**The Institutes and the Individual**

If the individual is to participate fully in a democracy, he must be able to acquire knowledge relevant to the decisions he should make in public affairs. He must also require the means of exercising judgment. Furthermore, he must be able to contribute to the efforts of society to deal with urgent problems such as those now confronting all of us, both environmentally and in our relationships with others.

Since curricula do not change as rapidly as does the world around them, educational institutions often lack flexibility and become remote from real life. Douglas College Institutes offer the means of linking disciplines and routine courses of formal study to reality. For example, research conducted in courses could be directed toward actual problems in the society and environment of the College community; assignments written or data compiled by such research could be made available to public and private institutions capable of using them for practical ends.

**The Institutes as Co-ordinators of Community Resources**

The increasing costs of education make essential the development of a greater co-ordination of land, capital, and human resources. The multiple-campus college has an opportunity to locate and develop some of its facilities to serve regional social, educational, and recreational needs. Thus, an environmental study centre can be developed, as an integral part of the College, on public land such as a regional park, thereby providing facilities not only for College students, but for all school grades and members of the public.

**THE INSTITUTE OF ENVIRONMENTAL STUDIES**

|  |   |
|--|---|
| Dr. Barry A. Leach,<br>Institute Director          | Ald. Bernard J. Moor,<br>Corporation of Delta   |
| Ald. J.W. (Jack) Gilmore,<br>District of Coquitlam | Mayor George Preston,<br>Township of Langley    |
| Mr. Nick Mansfield,<br>Population Division         | Mayor W. Vander Zalm,<br>Municipality of Surrey |
| Mr. Leigh Harrington,<br>Student Representative    |   |

**Courses**

The Institute is co-ordinating the following special courses:

- a) Instructors' course for the provincial hunter-training program;
- b) Outdoor training. This meets requirements of the hunter-training program;

c) Outdoor survival. Designed for industrial forestry survey crews in wilderness areas;

d) Outdoor education. Two two-week summer sessions for teachers on practical aspects of outdoor education. Evening and weekend versions will also be offered.

#### Programs

Each semester the Institute sponsors film and lecture programs on the environment.

#### Information Booklets

Edited collections of documents and articles not readily available from other sources are available to College libraries, faculty and students. The public and institutions may also obtain copies at a small charge to cover printing costs. Topics focus on environmental problems in the Lower Mainland.

#### "Serpentine Fen" — Environmental Study Centre

The Institute has obtained the use of half a 240-acre farm in South Surrey under a five-year agreement with the provincial Fish and Wildlife Branch. The other half is being developed by Ducks Unlimited (Canada) as a Canada Goose Farm. The College is developing its area as a farm and wildlife management project. Students from schools, the College, BCIT, and the universities, may use the area for observations, studies, experiments, and field work. In addition to agricultural and wildlife management projects, the Institute provides accommodation for a warden, a building containing displays of environmental and ecological information, and a small field laboratory.

## THE INSTITUTE OF INTERNATIONAL STUDIES

If the College is to remain relevant to the community's needs, it must be capable of swift response to the community's need for information on international affairs. It must offer an opportunity for discussion of the implications of events with an understanding of the political, strategic, economic, and social factors involved. In some cases, better understanding can lead to action through United Nations institutions, philanthropic organizations (Oxfam, etc.), or educational institutions — especially since an international college may soon be developed on Vancouver Island, and a world university sponsored by the United Nations may be built in Toronto.

#### Programs

Each semester the Institute sponsors a number of lectures on international topics. These are available to both students and general public.

## CONTINUING EDUCATION PROGRAMS

Continuing Education programs make Douglas College available to the adult community in our College region. They are designed to be appropriate, convenient, and attractive to the part-time mature student.

#### College Credit Programs

These lead to certificates and diplomas in the career and university-transfer fields on a part-time basis. All Douglas programs are available to the part-time student, most of them being available day and evening, on and off campus. Telephone the office of the Director of Continuing Education for detailed information.

#### Community, Public Affairs, and Special-Interest Programs

These are developed with the assistance of organizations, groups, and individuals, and are offered in co-operation with school district adult education departments in our College region. Contact the office of the Dean of Continuing Education for current information.

#### Availability of Courses and Tailored Programs

Douglas courses and special variations of the curriculum are available on request to groups and businesses, on or off campus. Telephone the office of the Dean of Continuing Education for information.

#### Availability of Student Services

All services are available to both daytime and evening students.

#### For Information Call:

Dean of Continuing Education  
New Westminister Campus — 521-4851

Director of Continuing Education  
Surrey Campus — 588-4411

## STUDENT DEVELOPMENT SERVICES

On each campus there is a student Development Centre where various kinds of Assistance are available:

- 1) COUNSELLING
  - vocational
  - educational
  - personal
  - referrals to other agencies
- 2) CAREER INFORMATION
  - reference library on occupations
  - university and college calendars
  - technical and vocational schools

#### 3) TESTS

- available in the following areas and administered to assist in counselling.
- aptitude
- achievement
- reading
- personality
- vocational interest inventories

#### 4) READING DEVELOPMENT

- eight-week courses on reading skills designed to improve both speed and comprehension
- eight-week study skill courses
- tutorial assistance

#### 5) STUDY CENTRE

- assistance to improve specific skills such as term papers, studying for exams, mathematics.

#### 6) MINI COURSES

- assist in personality development, social problems, e.g. courses in marriage styles, counsellor-aide training.

#### 7) GROUP EXPERIENCES

- personal development and growth groups for students wishing to acquire more insight into their behavior to improve inter-personal skills

The counsellors welcome the opportunity to meet with students either on a scheduled or drop-in basis. Evening interviews by appointment.

Drop in or telephone:

|                 |                      |
|-----------------|----------------------|
| NEW WESTMINSTER | 521-4851 (local 43)  |
| RICHMOND        | 273-5461 (local 8)   |
| SURREY          | 588-4411 (local 260) |

## COLLEGE LOCATIONS AND FACILITIES

Complete educational centres are available to students in New Westminster, Surrey, and Richmond. These provide classroom space, library, cafeteria, administrative and counselling services. The College mailing address is Box 2503, New Westminster, B.C.

The campus addresses are:

NEW WESTMINSTER: 8th Ave. & McBride Blvd., Telephone 521-4851  
SURREY: 9260 - 140th Street, Telephone 588-4411  
RICHMOND: 746 Elmbridge Way, Telephone 273-5461

Although many courses are given at all three main campuses, several career programs can be given at only one campus because of the special facilities that are required.

#### Campus Choice

Normally, upon registration, you will be able to choose courses offered at the campus nearest your place of residence. To make maximum use of College facilities, however, some students may be required to attend a campus more distant from their homes. It is anticipated that some students will also find it more convenient to attend a campus other than that in their immediate locality. Every effort will be made to satisfy individual preference, but availability of space at a given campus cannot be guaranteed.

If you plan to move close to one of the campuses to take a particular program, you should first contact the Admissions Office for the latest information on program location.

#### Library

Full library service is provided at each campus. As a student at any one campus, you may use the library at all three. Since it may sometimes be difficult for you to travel to another campus to obtain a particular item, an interloan service is provided. This means that you may ask for a book at Richmond, for example, and have it delivered from New Westminster. In addition, an interloan scheme between Douglas College and SFU is in operation, through which you may obtain copies of periodical articles from that university.

The College library has more than 40,000 books and 1,100 magazines, plus pamphlets, maps, records, slides, motion pictures, etc. All materials (except magazines) are available at each campus. Magazines are not available on interloan between campuses, but a substantial collection is available at each. At times of heavy demand, other materials may be available on reserve or short-term loan only.

When you register, you may obtain a library handbook which explains how to use the library to best advantage. Orientation programs are also designed to help you, including library tours, class lectures and a full two-credit, one-semester-long course which is offered at registration.

Since the variety of services available in the library may be confusing (ranging from the use of a film projection room to a clippings file, from study carrels to assistance with term papers, etc.), please do not hesitate to ask the library staff for assistance.

#### College Bookstore

Full bookstore facilities are available on Surrey and New Westminster campuses. At present, only ordering facilities are available at Richmond. The bookstore will supply all textbooks (except those provided by the library) and accept special orders for other books. It will also maintain a collection of paperback editions, slide rules, briefcases, notebooks, loose-leaf refills, art supplies, stationery, and College T-shirts. The bookstore also buys some used texts.

#### Cafeteria

Cafeteria services are provided at each campus.

#### Parking

Adequate free parking is available at each campus.

**Housing Services**

Since Douglas is considered a commuter college for students in the eight school districts it serves, no residences are maintained. The Admissions Office will provide a listing of available accommodations, but will make no recommendations regarding their quality nor enter into any disputes between landlords and tenants.

**GENERAL ENQUIRIES**

Enquiries relating to admission and registration should be addressed to:

THE DIRECTOR OF ADMISSIONS  
DOUGLAS COLLEGE  
P.O. BOX 2503  
NEW WESTMINSTER, B.C.  
or  
TELEPHONE 588-6404

An Admissions Office is located on each campus to assist you with admissions, records, and financial aid matters:

SURREY ..... 588-6404  
NEW WESTMINSTER ..... 521-4851 (local 55)  
RICHMOND ..... 273-5461

**FINANCIAL AID****GENERAL INFORMATION**

Douglas College has a number of scholarships, bursaries, and loans for which you may apply. To determine your eligibility, study the following descriptions carefully, since they differ in each case. Because negotiations for financial aid are conducted on a continuing basis, the Financial Aid Office should be consulted for the latest information. Should you require assistance with your application, or with interpretation of rules and regulations, contact the Financial Aid Office on the New Westminster campus, or telephone 521-4851.

**Governor General's Silver Medal**

A silver medal, presented by His Excellency the Governor General of Canada, is awarded annually to a Douglas College student. Although no monetary value is attached to this award, it is considered the highest academic honor the College can bestow. Normally, it will be awarded to the student who, in the opinion of the Selection Committee, attains the highest academic standing in the graduating year.

**B.C. High School Boys Basketball Association Scholarships**

These will be awarded to successful applicants proceeding from grade 12 to a full course at any university in B.C., or at any other institution of higher learning within the province which is approved by the BCHSBBA directors. To be eligible for consideration, an applicant must:

- a) Have demonstrated proficiency in basketball;
- b) Have obtained a C average or equivalent scholastic standing;
- c) Have good qualities of character and leadership.

Applicant's "need" will be a primary consideration of the committee. He must apply in writing to: The Secretary, BCHSBBA, 1300 East 29th Ave., Vancouver 10, B.C. Applications must be received not later than June 1. Three letters of reference must accompany each application: one from the principal of applicant's school; one from a member of the high school staff other than the team coach; and one from a person who knows the applicant well and will estimate his qualities of character, leadership, and participation in community activities.

**Certified General Accountants Association of British Columbia — Continuing Education Tuition Scholarship**

The CGAA offers a Continuing Education Tuition Scholarship of \$250 each calendar year. This is to be awarded, on the recommendation of the college, to a student in the Business Division who is enrolling in the CGAA Financial Management study course. Written application must be submitted to the Financial Aid Officer, New Westminster campus, by the last day of lectures in the spring semester. A personal interview may be required.

**Crown Zellerbach Canadian Foundation — Scholarship No. 1**

Open to sons and daughters, or legal dependants, or employees of Crown Zellerbach Canada Limited, including their Vancouver office, Paper Products Division, Ocean Falls, Elk Falls, and the B.C. region, Crown Zellerbach Paper Company Limited. The award will be made to a student with full high school graduation (academic-technical program) who is proceeding to a full academic year (two consecutive semesters) of studies at UBC, Notre Dame University of Nelson, UVic, or SFU. Winners may also attend B.C. regional colleges, providing the program taken leads to a degree at one of the above universities. Application forms are obtainable from: Public Relations Department, Crown Zellerbach Canada Limited, 1030 West Georgia St., Vancouver 5, B.C., or from the Industrial Relations Department in any of the company's divisions. The application form must be received not later than May 15.

**Crown Zellerbach Canada Foundation — Scholarship No. 2**

Open to sons and daughters, or legal dependants, of employees of Crown Zellerbach Building Materials Division in B.C. and the company's Forest Division (other than head office employees). The winner will be selected by the Scholarship Committee, UBC, on the basis of scholastic standing, leadership, and citizenship. The competition is open to students having full high school graduation (academic-technical program) and who are proceeding to a full academic year (two consecutive semesters) of studies at UBC, UVic, Notre Dame University of Nelson, or SFU.

Applicants may also attend a B.C. regional college, providing the program taken leads toward a degree at one of the above universities. Application forms, which are obtainable as in the preceding description, must be received not later than May 15.

**Nancy Greene Scholarships**

Five scholarships of \$500 each are awarded annually to students who apply and who best combine the following qualifications.

Students currently registered in a senior secondary school (including independent and private schools), or registered in any recognized college, preparatory program in B.C., who plan to pursue an educational program at any post-secondary educational institute in B.C. are eligible.

Applicants must show evidence of:

- 1) Good school and community citizenship;
- 2) Leadership and character;
- 3) Scholastic achievement;
- 4) Athletic ability and performance.

**How to apply:**

- 1) Address a personal letter of application, outlining your achievements and educational goals, to the Scholarship Selection Committee, c/o The Deputy Provincial Secretary, Parliament Buildings, Victoria, B.C. postmarked not later than 1 June;
- 2) Applicant should request his school principal and one other prominent individual in the community to send a confidential supporting letter directly to the Scholarship Committee. The principal should attach a statement of grades or marks, in addition to a statement certifying athletic and other participation;
- 3) Applicant may request the governing body of his sport to submit a testimonial letter.

Applications will be reviewed by a selection committee comprising representatives from the British Columbia Amateur Sports Council and the Department of Education. Scholarships will be available to successful applicants upon proof that they have been accepted by the institution concerned and have registered, provided they are not in receipt of a similar or other major award of \$500 or more.

**Hockey Canada Scholarships**

Hockey Canada was established in 1969 as a result of the recommendations of the Task Force of Sports. The scholarship program is designed to encourage young men to pursue two equally important fronts — post-secondary education and the development of proficiency in hockey. The field of study is not restricted, and is at all levels of post-secondary education. Award value is \$2,000, there being a minimum number of 10 scholarships annually. The duration is for four consecutive years or until a university degree or a community college diploma is obtained, whichever is sooner, providing the student has established continuing eligibility with respect to academic and hockey progress. Scholarships are open to candidates with outstanding hockey ability who are Canadian citizens; or who have held landed immigrant status for at least one year and have graduated, or are about to graduate, from a secondary school with an average of at least 65% in the year of graduation; or who are presently enrolled, or have been enrolled, in a post-secondary institution. Scholarships are tenable throughout Canada at any university or college which is a member or is affiliated with a member of the Association of Universities and Colleges in Canada having a viable hockey program.

Deadline for applications is April 30. For information and application forms, contact: Director of Awards, AUCC, 151 Slater St., Ottawa 4, Ont.

**Premier's Athletic Awards**

Five awards of \$1,000 each will be made to B.C. students attending, or planning to attend, a designated post-secondary institution in B.C. Applicants must show evidence of athletic ability and performance, leadership, character and scholastic achievement.

Apply in writing, outlining athletic and scholastic achievements. A supporting letter from the head of the athletic department of the student's secondary or post-secondary institution, and one from a prominent sports

**Government of British Columbia Scholastic Awards**

The provincial government will award \$200 to each of a number of top-ranking eligible students in UBC, UVic, Notre Dame University of Nelson, and the British Columbia Institute of Technology, on the basis of their standing upon completion of a full program of studies extending through two consecutive terms comprising one academic year.

The provincial government will award \$100 to each of a number of the top-ranking eligible students in SFU and in each of the public colleges in B.C. on the basis of their standing upon completion of a full program of post-secondary studies extending through one semester, providing the qualifying semester is a part of a longer program comprising at least one full academic year. At the designated institutions operating on the semester system, these awards may be competed for at the end of each semester.

Styled the "Government of British Columbia Scholastic Awards," these awards may be granted up to a maximum of 17% of the full-time program students registered in each of the institutions designated above. To be eligible, a student must be a Canadian citizen who has resided in B.C. for not fewer than 12 consecutive months preceding the first day of the month in which he commenced the qualifying period of post-secondary studies; or he may be one who has been a landed immigrant for at least 12 consecutive months and who fulfils the above criteria of residence in British Columbia. These scholastic awards will not be granted to students whose average standing in all courses of a full program in the qualifying session is less than 70%.

Nomination of the successful candidates to be recommended to the provincial government for its scholastic awards will be the responsibility of the student awards committee of each of the designated institutions. The provincial government will inform the registrar of each institution of the maximum number that may be recommended for awards based on each qualifying period.

The student awards committee will not recommend students automatically for these scholastic awards. To be eligible, each candidate will be required to submit an application on a form available from the financial aid officer of the institution. The application form must be completed in full and may be subject to verification. The application deadline will be announced by the financial aid officer. As the award will be given to a successful candidate in the form of a cheque, it is important that each candidate states accurately the full postal address where he is certain to receive delivery.



leader in the community, must be sent directly to the following address. The athletic director should attach a statement of athletic achievements and leadership participation. Apply before June 1 to: The Chairman, British Columbia Physical Fitness and Amateur Sports Fund Committee, Parliament Buildings, Victoria, B.C.

#### British Columbia Athletic Awards

Twenty-five awards of \$500 each will be made to B.C. students attending, or planning to attend, a designated post-secondary educational institution in B.C. Applicants must show evidence of athletic ability and performance, leadership, character, and scholastic achievement.

Apply in writing, outlining athletic and scholastic achievements. A supporting letter from the head of the athletic department of the student's secondary or post-secondary institution, and one from a prominent sports leader in the community, must be sent directly to the following address. The athletic director should attach a statement of athletic achievements and leadership participation. Apply before June 1 to: The Chairman, British Columbia Physical Fitness and Amateur Sports Fund Committee, Parliament Buildings, Victoria, B.C.

#### B.C. Hospital Employees Union Local 180 Scholarships

Scholarships are available to sons and daughters of members of BCHEU Local 180. For the academic year, two scholarships of \$350 and three of \$250 are available to students proceeding from grade 12 to a full program of studies in any field leading to a degree or diploma at one of B.C.'s four universities, Selkirk College, Vancouver City College, BCIT, or Douglas College.

To be eligible an applicant must:

- 1) Be the son or daughter of an active member of the union, or the son or daughter of an active member as of January 1, 1972, but who has since been superannuated;
- 2) Write the government scholarship examination conducted in June by the Department of Education, and obtain clear standing and an over-all average of not less than 70%;
- 3) File with the Dean of Inter-faculty and Student Affairs, UBC, a letter indicating the student's parental connection with Local 180, and complete the Douglas College bursary form. This form will be sent to the candidate on receipt of the letter and must be returned not later than July 15.

Scholarships will be awarded to the candidate who, in the opinion of the university or college (in consultation with Local 180), are best qualified in terms of academic standing and financial need. Candidates should note that their intention to write government scholarship examinations must be filed with the Department of Education, Victoria, B.C., through the school principal before June 1.

#### Institute of Chartered Accountants of British Columbia

The ICA offers three scholarships of \$250 each to grade 12 candidates graduating from a B.C. high school or similar provincial institution. Application forms may be obtained from school counsellors, or from: The Director of Education, Institute of Chartered Accountants of British Columbia, 530 Burrard St., Vancouver 1, B.C. Applications must be submitted on or before 5 p.m., May 21.

Applicants for the ICA scholarships must plan to enrol and continue throughout the subsequent academic year in either one of:

- a) A full-year program of undergraduate work at a university in B.C.;
- b) A full program in the university-transfer stream of a two-year, post-grade-12 institution.

Candidates must write examinations in Mathematics 12 (Math 12, 112, or 113) and one other subject chosen from the list approved by the Department of Education for provincial scholarships. For students on the accelerated program, subjects at 100 level will be accepted in lieu of subjects at 12 level. All examinations must be written during the June examination period.

Candidates who accept other scholarships and bursaries for the same academic year valued in aggregate at more than \$350 will not be eligible for an ICA scholarship. (A provincial government UBC fee subsidy will not be reckoned in this aggregate.)

Awards will be made to students who have achieved good scholastic standing on the prescribed examinations.

Other factors being equal, candidates who plan to ultimately train for a career in professional accounting, commerce, or a related field, will be given preference.

The Council of the Institute of Chartered Accountants of British Columbia will determine the winners of the scholarship. The Council may also elect not to grant the scholarship in any year in which a suitable candidate does not qualify.

#### Langley Anglican Theological Scholarship — Donated by Miss Hilda Jude

A \$150 scholarship will be awarded to a graduate of Langley (or Aldergrove) Secondary School who is or will be enrolled in any Anglican or United Church theological college. Selections will be made by the Langley Scholarship Selection Committee on the basis of scholarship, extra-curricular activities, church and community interests, and need. Applicants need not have written departmental examinations, but preference may be given to those who have. Final selection is subject to the approval of Miss Hilda Jude.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. The scholarship is awarded upon winner's acceptance by an Anglican Theological college. If no suitable applicant in the current year, the scholarship will be awarded in a subsequent year. If more than one applicant in any year, the scholarship will be divided, or it may be awarded to the most deserving candidate.

#### Langley Memorial Hospital Medical Staff Scholarship — Donated by the Medical Staff of Langley Memorial Hospital

This \$200 scholarship will be awarded to a graduate of Langley (or Alder-

grove) Secondary School proceeding to the first year in the Faculty of Medicine at UBC or equivalent university. Selection is to be made by the Langley Scholarship Selection Committee on the basis of scholarship, high moral force of character, and need. Applicants need not have written departmental examinations, but preference may be given to those who have.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. The scholarship is awarded upon winner's acceptance at UBC or equivalent university. If no suitable applicant in the current year, the scholarship will be awarded in a subsequent year. If more than one applicant in any year, this scholarship may not be divided but is to be awarded to the most suitable candidate. If the winner is subsequently awarded an equivalent or better scholarship from a source outside the fund, this scholarship may revert to the next most suitable applicant.

#### Langley Pharmacists' Scholarship — Donated by the pharmacists of Langley city and municipality

A \$100 scholarship will be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding to first year in the Faculty of Pharmacy at UBC or equivalent university, or proceeding from any year in the Faculty of Pharmacy to the next year in that faculty. Selection is to be made by the Langley Scholarship Selection Committee on the basis of scholarship, high moral force of character, and need. Applicants need not have written departmental examinations, but preference may be given to those who have.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship and Guidance Committee, on or before June 15. The Scholarship is awarded upon winner's acceptance at UBC or equivalent university. If no suitable applicant in the current year, the scholarship will be awarded in a subsequent year. If more than one applicant in any year, the scholarship may not be divided but will be awarded to the most suitable candidate. If the winner is subsequently awarded an equivalent or a better scholarship from a source outside the fund, this scholarship may revert to the next most suitable candidate.

#### W.A. McLennan Scholarship

Five scholarships of \$300 each will be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding from grade 12 to a recognized university, technical institute, vocational school, junior college, senior matriculation, nurse's training, or other approved training school. Selection to be made by the Langley Scholarship Selection Committee on the basis of general scholastic efficiency, high moral force of character, ability to co-operate with others, and financial need. In the case of a student proceeding to the study of forestry, with other determining qualities being equal, preference will be given to such an applicant. Applicants need not write departmental scholarship examinations.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. The Scholarship is awarded upon winner's acceptance at an approved educational institution. If there are not five suitable candidates in the current year, one or more of the Scholarships will be awarded in a subsequent year. If there are more than five applicants in the current year, the scholarship may not be divided but will be awarded to the five most suitable candidates. The winner of one of these five scholarships may be awarded additional scholarships from other sources and still retain this scholarship.

#### MacMillan Bloedel Scholarships

Eleven scholarships of \$500 each, 10 in British Columbia and one in Saskatchewan, are offered by MacMillan Bloedel Limited. The B.C. awards available are: one in each of School Districts 65 (Duncan-Cowichan), 67 (Ladysmith-Chemainus), 68 (Nanaimo), 69 (Qualicum), 70 (Alberni), 79 (Ucluelet-Tofino), 48 (Howe Sound), 85 (Vancouver Island North), and two in School District 47 (Powell River). The B.C. Scholarships are open to students graduating from secondary school and proceeding to studies at recognized institutes of higher learning in B.C. Awards are made on the basis of academic ability and potential leadership as indicated by achievements in grades 11 and 12, and by participation in school activities. Further information obtainable from the Financial Aid Officer, or see below.\*

#### MacMillan Bloedel Special Scholarships

Ten scholarships of \$500 each are available annually to sons and daughters (or legal dependants) of employees serving any MacMillan Bloedel Limited division in North America. Because the majority of employees work in B.C., it is expected that most scholarships will be awarded in this province. However, the diversity of the company's operations makes it possible for awards to be made in other provinces and in the United States. These scholarships are open to students graduating from secondary school and proceeding to studies at recognized institutes of higher learning in B.C. Awards are made on the basis of academic ability and potential leadership as indicated by achievements in grades 11 and 12, and by participation in school activities.

\*Application forms, which must be submitted by May 31, are obtainable from the manager or personnel supervisor at each operating division of the company; or from The Secretary, Scholarship Committee, MacMillan Bloedel Limited, 1075 West Georgia St., Vancouver 5, B.C.

#### The Brian Nybeck Memorial Medical Scholarship — Donated by Mr. and Mrs. J.I. Nybeck

A \$100 scholarship will be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding to second year in the Faculty of Medicine at UBC or equivalent university. Selection to be made by the Langley Scholarship Selection Committee on the basis of scholarship, high moral force of character, and need. Applicants need not have written departmental examinations, but preference may be given to those who have.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15.

The scholarship is to be awarded upon winner's acceptance by UBC or equivalent university. If no suitable applicant in any year, the scholarship will be awarded in a subsequent year. If more than one applicant in one year, the scholarship may not be divided but will be awarded to the most suitable candidate. If the winner is awarded an equivalent or better

scholarship from a source outside the fund, this scholarship may revert to the next most suitable candidate.

#### Regular Officers Training Plan (ROTP)

This plan combines university subsidization with career training as an officer in the Regular Component of the Canadian Forces. Successful candidates are enrolled in the rank of Officer Cadet. They are required to maintain a good academic and military standing while in the plan. All tuition and other essential fees are paid by the Department of National Defence. In addition, the officer cadet receives an annual grant of \$125 for books and instruments, and is paid \$193 a month for personal and living expenses. Free medical and dental care is provided. Annual leave (30 days plus travel time) with full pay and allowances may be granted each year, usually after the summer training period. On graduation, the officer cadet is commissioned to the rank of lieutenant.

#### Reserve Officer University Training Plan (ROUTP)

In contrast to the ROTP, this plan carries no service obligation. Successful candidates are enrolled in the reserve forces as officer cadets and may be promoted to the rank of second lieutenant after the first year of military training.

The purpose of the ROUTP is to provide military training leading to commissioned rank in the reserves to selected undergraduates attending Canadian universities and community colleges. The plan involves 15 days training over the winter and up to 16 weeks in the summer.

1972-73 pay rates:

| RANK           | DAILY RATE      | MONTHLY RATE    |
|----------------|-----------------|-----------------|
|                | Winter Training | Summer Training |
| Officer Cadet  | \$13.00         |                 |
| 2nd Lieutenant | \$13.00         | \$405.00        |
| Lieutenant     | \$16.90         | \$591.00        |

Enrolment standards include: Canadian citizen, aged 17-22 (exceptions possible); married or single, medically fit; must be enrolled in an undergraduate program as a full-time student (university-transfer program in community colleges).

Approved institutions in the Greater Vancouver area are:

Capilano College, North and West Vancouver  
Douglas College, New Westminster, Surrey, Richmond  
Simon Fraser University, Burnaby  
University of British Columbia, Vancouver  
Vancouver City College, Vancouver

Participating armed forces units in the Lower Mainland are:

British Columbia Regiment (Armoured), 620 Beatty St., Vancouver  
15th Field Regiment (Artillery), 2025 West 11th Ave., Vancouver  
HMCS Discovery (Navy), Stanley Park, Vancouver  
Royal Westminster Regiment (Infantry), 6th St., and Queens Ave.,  
New Westminster  
Seaforth Highlanders of Canada (Infantry), 1650 Burrard St.,  
Vancouver  
6th Field Squadron (Engineers), 1513 Forbes, North Vancouver  
Vancouver Service Battalion (Service Corps, Security, Ordnance  
Medical), 4050 West 4th Ave., Vancouver

Enquiries and applications should be directed to the Commanding Officer of the Armed Forces Reserve Unit.

#### Vancouver Sun Regional College Entrance Scholarships

The Sun offers three annual scholarships of \$250 each to students proceeding in the fall from grade 12 to first year at a regional college in B.C., in a full program of studies (two consecutive semesters or equivalent) in courses leading to a university degree. Applicants must have been Sun carriers for at least two consecutive years and must write the scholarship examinations conducted in June by the Department of Education. Scholarships will normally be awarded to the three qualified applicants who rank highest in these examinations, but standing obtained in other subjects may also be considered (and will always be considered in the event of a tie).

A winner who ranks in the top 10% in the college he has attended, and who proceeds to second year at the same college in a full program of studies leading to a university degree, will be granted a renewal in the same amount. A winner who, after completing one or two years of college, transfers to a full course of studies at a public university in B.C., and who ranks in the top 10%, at the time of transfer, among the students of his year in the college, will qualify for a further scholarship of \$500. For continued attendance at a university, he may then be eligible for up to two further renewals until obtaining his first undergraduate degree. Renewal each year is conditional upon ranking in the top 10% in the year and faculty in which he is registered.

Candidates must apply on the General Application form, obtainable from and returnable by May 15 to: Scholarship Office, Room 207, Buchanan Building, University of British Columbia, Vancouver 8, B.C. The application must be accompanied by a Sun carrier service certificate.

#### Simon Fraser University Regional College Entrance Scholarships

A number of scholarships ranging in value from \$175 to \$300 are available to students entering SFU from regional, junior, or community colleges. Consideration is given to students who have completed one or two years of study at such institutions and have maintained a high academic average on a full course load, and who have been recommended for the scholarship by the college from which they are transferring. Only students who are proceeding to further university studies within a year of the completion on one or two years of study at the regional college level will be eligible. Those not enrolled in a full university course load will ordinarily not be eligible. Apply to: Financial Aid Officer, Simon Fraser University, Burnaby 2, B.C., during the first three weeks of lectures of each semester.

#### Vancouver Police Force Scholarships

Scholarships of \$250 each have been established to assist promising and deserving children of members of the Vancouver Police Force to continue their studies at SFU, UBC, and Douglas College beyond the level of secondary school. Academic standing and financial need will be taken into

consideration. Application forms may be obtained from: The Secretary, Vancouver Police Force Scholarship Committee, 312 Main St., Vancouver 4, B.C. Applications, together with the required accompanying letter, must be returned to the secretary not later than June 30.

#### Whalley Kiwanis Scholarship

This \$100 scholarship is open for competition among students of Douglas College on the following conditions:

- 1) Candidate must be a permanent resident of the municipality of Surrey;
- 2) Selection is to be made by a Douglas College scholarship committee.

Any full-time student who qualifies may apply in writing to: The Financial Aid Officer, P.O. Box 2503, New Westminster, B.C. Applications will be accepted up to the last day of classes in the spring semester. A personal interview may be required.

#### Alex Woykin Memorial Scholarship

This \$100 scholarship will be awarded to a graduate of Langley Secondary School proceeding from any year in the Faculty of Engineering at UBC or equivalent university; or proceeding from any year in the Faculty of Engineering to the next year in that faculty. Selection to be made by Langley Scholarship Selection Committee on the basis of scholarship, high moral force of character, and need. Applicants need not have written departmental examinations, but preference may be given to those who have.

Apply to: The Chairman, Langley Secondary School Scholarship Guidance Committee, on or before June 15. The Scholarship is awarded upon winner's acceptance at UBC or equivalent university. If no suitable applicant in the current year, the scholarship will be awarded in a subsequent year. If more than one applicant in the current year, the scholarship may not be divided but will be awarded to the most suitable candidate. If the winner is subsequently awarded an equivalent or better scholarship from a source outside the fund, this scholarship may revert to the next most suitable candidate.

#### Amalgamated Construction Association of B.C. — Construction Management Bursary

Available to students entering the third semester of the Construction Management program and awarded annually by the College in consultation with the donor. To be eligible, an applicant must have satisfactory academic standing and financial need. Written application for the bursary, indicating financial need, must be submitted to the Financial Aid Officer, Douglas College, by the last day of classes in the spring semester. A personal interview may be required.

#### B.C. Indian Arts and Welfare Society

Two bursaries of \$150 each will be awarded annually by the B.C. Indian Arts and Welfare Society in memory of those Canadian Indians who gave their lives in either world war. Native Indian applicants must be from the province of B.C. and be planning to enter one of the established universities or colleges in B.C., or some recognized technical school or other training centre. The award will be made by the Executive Committee of the B.C. Indian Arts and Welfare Society.

If no application is received from a student entering the first year of university, the bursary may then be awarded to a student enrolled in any of the senior years.

Letter of application should be received no later than August 15 by: The Honorary Secretary, B.C. Indian Arts and Welfare Society, c/o The Provincial Museum, Victoria, B.C.

#### Province of British Columbia Bursaries

The Government of the Province of British Columbia annually provides funds to assist students who are residents of B.C. to commence or to continue an acceptable full-time program of post-secondary studies at designated post-secondary institutions as follows:

- a) Within the province of British Columbia;
- b) In other provinces of Canada when
  - 1) An acceptable course of professional study in a particular program is not provided within the Province of British Columbia, or
  - 2) When admission to a particular course of professional study in a B.C. university is rejected only because registration in that particular faculty is filled;
- c) In exceptional circumstances, in other countries when an acceptable course of study in a preferred professional program is not available at any designated institution in Canada.

In cases provided for under b) and c), the eligibility of the student and the acceptability of the program will be decided by the British Columbia Student Aid Committee, which may require the applicant to declare that he will return to British Columbia to practise the profession for which he qualifies.

The provincial bursary plan is administered in conjunction with the Canada Student Loans Plan, its purpose being to enable qualified needy students to reduce the amount of indebtedness they must incur to continue their post-secondary education. As the provincial bursaries are free grants of money from public funds, students and the parents of students defined under the plan as financially dependent must accept the principle that they are primarily responsible for provision of the funds required for the expenses of post-secondary education. The provincial bursaries plan and the Canada Student Loans Plan make available means to supplement funds available from the resources of the student or his family.

The provincial bursary is available only to those students who are proceeding to a diploma or a first degree at the undergraduate or equivalent level of a post-secondary program of study. A provincial bursary will not be granted to students in post-graduate studies, nor to those registered as "qualifying" or "unclassified."

There are four categories of bursaries. The amount that may be granted to an applicant for assistance depends upon the total amount of his financial need as determined under the Regulations of the Canada Student Loans Plan, and as recommended to the British Columbia Student Aid Committee.



To qualify for the grant of a B.C. provincial bursary (money that does not have to be repaid) a student must:

- 1) Comply with the criteria of the Canada Student Loans Plan, as administered by the Provincial Authority of British Columbia;
- 2) Submit, in accordance with the instructions stated on the form, a fully completed **Application for Financial Assistance** form;
- 3) Have been a resident of B.C. for not less than 12 consecutive months prior to the first day of the month in which he commences the program of study for which he seeks financial assistance. In the case of students qualifying under the provisions of b) and c), the year of residence in B.C. need not be that immediately preceding this academic session, but the proviso exists that the student shall not have established residence of 12 consecutive months (excluding periods of post-secondary study) in another province or country;
- 4) Have successfully completed his last previous full-time course load for an academic year of two terms or two semesters, without a failure in any course requisite for unconditional admission to the next higher academic session. Students allowed to advance while carrying a deficiency of academic credits will not be eligible for assistance under the provincial bursary plan until the deficiency is made up.

The **Application for Financial Assistance** form, and the accompanying **Information Brochure**, are available from the financial aid officer of the designated institution the applicant is (or will be) attending in this province. B.C. students attending institutions outside this province should apply directly to: Student Affairs Branch, Division of Post-Secondary Services, Department of Education, Parliament Buildings, Victoria, B.C.

#### **Cominco Higher Education (Entrance) Bursaries**

Cominco Limited offers annually two classifications of one-year awards to children of employees who, upon completion of secondary school, register in an institution of higher education. Class 1 awards in the amount of \$500 will be made to those who obtained 86% or better standing in their secondary school leaving course. Class 2 awards of \$350 will be made to all student sons or daughters of employees who obtain an average between 73 and 86 per cent. For details and application forms, write: The Secretary, Educational Awards Committee, Cominco Limited, Trail, B.C.

#### **The Grand Lodge Masonic Bursaries**

The Grand Lodge of Ancient Free and Accepted Masons of British Columbia offers annual bursaries of from \$200 to \$500 each to sons, daughters, and legal wards of active members of Masonic Lodges in B.C., or of deceased members who at the time of death were active members. The purpose of these bursaries is to give assistance to students who, otherwise lacking financial aid, might find it impossible to continue their education.

Winners will be selected by the university from among applicants having satisfactory academic standing and who are beginning or are continuing undergraduate studies at UBC, SFU, Uvic, BCIT, or a regional college, in a full program leading to a degree or certificate in any field. Preference given to applicants entering the university or college from grade 12, and to undergraduates in second-year studies.

To qualify for consideration, a candidate must obtain an application form from UBC's scholarship and bursary office. The completed application, which must be received by the university not later than July 15, must be accompanied by a letter from the lodge secretary verifying the applicant's parental association with the Order. Since a special committee considers the applications, those who wish to apply for other bursaries must submit a separate application. Each application must be accompanied with a transcript of the student's academic record at the institution most recently attended. If the grade 12 transcript is not immediately available, it must be forwarded at the first opportunity.

#### **Gyro Club of New Westminster Bursary**

This bursary of \$200 will be awarded to a full-time student who has been a resident of New Westminster for at least five years. For details and application requirements, contact the Financial Aid Officer, Douglas College, New Westminster campus.

#### **Independent Order of Foresters — Court Royal City 718 Bursaries**

Four \$100 bursaries are available to members, or sons or daughters of members, of Court Royal City 718, Independent Order of Foresters, for post-secondary education. Application forms obtainable from and returnable by May 1 to the Court Secretary, Mr. Fred Hockey, 439 East 8th Ave., New Westminster, B.C.

#### **Independent Order of Oddfellows — Joint Bursary**

Three \$100 bursaries are available annually to assist students who are undertaking a full-time post-secondary education. These are provided by the Grand Lodge, Rebekah Assembly, and the Grand Encampment of the Independent Order of Odd Fellows of British Columbia. Applicants must have direct connection with one or more branches of the Order through parents, grandparents, or close relations. Special consideration given to financial need.

Details and application forms are obtainable from the secretary of any Odd Fellows or Rebekah Lodge, IOOF. Applications should be submitted to the appropriate lodge by May 1, and must be sponsored by an Odd Fellows Lodge, Rebekah Lodge, or Encampment.

#### **John B. MacDonald Alumni Bursaries**

The Alumni Association of UBC is offering 10 bursaries of \$350 each to students entering UBC for the first time from a regional college. It is expected that at least one award will be available to each college. Selection of students will be based on eligibility to enter the university, academic standing and, particularly, financial need.

A student must be registered for a full program of studies leading to a degree in any faculty. Application form obtainable from and to be submitted to: The Scholarship and Bursary Office, Room 207, Buchanan Building, The University of British Columbia, Vancouver 8, B.C., not later than July 15.

Each student nominated by the principal of a college (maximum of three from any one college) must complete UBC's *Application for Bursary* form.

This form, accompanied with a letter of nomination from the principal and a transcript of the student's college studies taken to date, must then be forwarded to UBC. The principal's letter will indicate whether the student is first, second, or third choice of the college, and will provide further relevant information to assist the committee in selecting the 10 winners.

#### **Merrill C. Robinson Bursary Fund — Sponsored by the CNIB**

This fund is sponsored by the Canadian National Institute for the Blind in memory of the late Merrill C. Robinson, MBE, LL.D., for his long service to the blind. It will be administered by a special committee of the CNIB Divisional Board, and used to assist blind students attending any university or college (other than UBC) within the B.C.-Yukon Division. Awards will be made only to those who show ability and promise. Applications must be received by the CNIB, 350 East 36th Ave., Vancouver 15, by July 31.

#### **The Royal Canadian Legion (Pacific Command) — Bursaries, Scholarships**

The Royal Canadian (Pacific Command) offers annual awards for students proceeding from secondary school to college or university, as well as for students entering second, third, or fourth years. Scholarships and bursaries are awarded on the basis of academic standing and financial need. Preference is given to sons and daughters of deceased, disabled, or other veterans, though applications from other worthy students are also given consideration. Deadline for applications is May 31. Obtain information from: Pacific Command, The Royal Canadian Legion, 1531 West Pender St., Vancouver 5. Unless the application form is completed and required items forwarded, absolutely no consideration will be given by the committee.

#### **The Royal Canadian Legion (Pacific Command) Ladies Auxiliary to Branch No. 4, Chilliwack — Bursaries**

Two bursaries of \$150 each are offered to graduates of Chilliwack secondary schools proceeding to an institution of higher education. Preference given to sons and daughters of veterans. Applicants must demonstrate financial need and academic ability. Forms and information obtainable from: The Secretary, Ladies Auxiliary, The Royal Canadian Legion, Branch No. 4, 45468 Crescent Drive, Chilliwack, B.C.

#### **Vancouver Foundation Bursaries**

The Vancouver Foundation aids students who present evidence of sound academic achievement or promise and who have financial need. If you meet these criteria, the Foundation invites the following:

- a) A detailed biographical letter outlining the circumstances of your life to date, including extra-curricular activities, employment, savings, and awards or other finds for higher education; and such information that would help a committee to assess your abilities, potentialities, and need;
- b) A complete current transcript, including the present scholastic year, if available;
- c) Names of two references, one of whom should be an educator who is acquainted with your latest academic work.

A personal interview is an important part of the selection procedure. If you reside in Vancouver, or are studying in the metropolitan area, telephone the Vancouver Foundation for an appointment within one week of making application. For others, local interviews are arranged in the spring at various locations in the province; but it is the responsibility of the applicant to consult with Douglas College Financial Aid Officer regarding time and place. Also, those who do not make an appointment as prescribed above must arrange for a personal interview at the Vancouver Foundation Office.

For the convenience of applicants, personal interviews will be held at or near the College prior to the end of the academic year. Therefore, applications should be submitted by April 1 to: The Bursary Committee, Vancouver Foundation, 1105 West Pender St., Vancouver 1. Final date for applications is July 15, with awards to be announced in August and payable in September. Consideration may be given at other times to applicants commencing studies in either the spring or summer semester.

#### **Hockey Canada Bursaries**

Douglas College students may apply for Hockey Canada Bursaries. Application form and information may be obtained from Hockey Canada, P.O. Box 278, Toronto-Dominion Centre, Toronto 113, Ont.

## **LOANS**

#### **B.C. Youth Foundation Loans**

The B.C. Youth Foundation was established in 1946 by a donation from the late Joseph A. McKercher. An additional bequest has since been received from the E.S. Winn estate. Interest-free loans are made to bona fide B.C. residents to a maximum age of 30. Loans may be used for fees, books, or a monthly allowance to assist with living expenses when the applicant is not residing at home. Students eligible for government loans should first apply to that source. The Foundation loan is designed not only for college and university education, but also for students completing grade 12 or studying in technical or vocational fields. An adult guarantor is usually required.

Applicants should have an aptitude for their chosen field of study and show promise of a reasonable chance of success. They should contribute some of their own money to the cost of their education when possible.

**Please note:** To determine eligibility for B.C. Youth Foundation Loans, contact the Financial Aid Officer, Douglas College, New Westminster campus. If you appear to meet the requirements, you will be referred to the Vancouver School Board, 1595 West 10th Ave., Vancouver, for an interview.

#### **Government of Canada Student Loans Plan**

This federal government plan assists students who otherwise would be unable to pursue full-time post-secondary studies. The maximum loan for an academic year is \$1,400. Total loans to any student cannot exceed \$9,800. A loan of up to \$700 may be authorized for a single semester which is part of a longer program of study.

Borrowers are required to repay principal and interest by regular monthly instalments. Payments commence six months after the borrower ceases to be a full-time student. No payments need be made while the borrower is a full-time student, nor for six months thereafter. Interest for this period is paid by the federal government on behalf of the student.

Student need is determined by provincial loan authorities in accordance with criteria established for use throughout Canada. A parental contribution table is an integral part of the criteria and is applied in all cases where the student has not established financial independence as defined in the Canada Student Loans Plan.

It is expected, of course, that students will save a portion of any summer-time earnings toward continuing their education.

Loan recipients should carefully consider the repayment obligation being undertaken. A loan applicant must, as a first step, obtain an application form from the institution that he plans to attend, and complete it carefully. Declarations are required from both the student and the parent that all information therein is correct.

The application is then submitted to the financial aid office of the educational institution to be attended. Students planning to attend an institution outside B.C. must send applications to: Student Affairs Branch, Division of Post-Secondary Services, Department of Education, Parliament Buildings, Victoria, B.C.

**Langley 5c-\$1.00-Store Loans**

To be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding from grade 12 to UBC or equivalent university; or to a recognized training of vocational school; or to a junior college. Selection to be made by the Langley Scholarship Selection Committee on the basis of scholarship, extra-curricular activities, high moral force of character, community interests, and financial need. Applicants are not required to write departmental examinations.

The amount available is \$400. (Langley \$200 — Aldergrove \$200.)

Apply to Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. Loan to be awarded upon acceptance by UBC or equivalent university, a recognized training or vocational school, or a junior college. If no suitable applicant during the year, the loan will be awarded in a subsequent year. If more than one applicant in any year, the loan may not be divided but will be awarded to the most suitable candidate. The full amount of the loan will be repaid to the Langley Scholarship Fund under the following conditions:

- a) The loan is interest free and is not repayable during the period of education;
- b) The loan must be repaid not later than two years following the winner's completion of his education;
- c) Repayment arrangements to be made with the Langley Scholarship Bursary Committee.

**New Westminster Women of Rotary — Loans**

Small loans may be made available to assist women/students in emergency situations. Applicants should contact the Financial Aid Officer, Douglas College, to arrange for an interview.

**SPECIAL FINANCIAL ASSISTANCE**

**Health Branch — Division for Aid to Handicapped**

Students who are disabled and receiving medical attention, and who wish to attend Douglas College, may be eligible for financial assistance from the Division for Aid to Handicapped. Such assistance must, however, be part of a rehabilitation plan approved by the division and may not be requested as a bursary or scholarship. For information regarding eligibility write: Director, Division for Aid to Handicapped, P.O. Box 4020, Station D, Vancouver 9, B.C.

**University Women's Club — Cloverdale-Langley Special Fund**

This fund is open to students experiencing special financial difficulties not covered by scholarships, bursaries or loans. It is particularly designed to assist women with small children seeking retraining through Douglas College programs. For information regarding eligibility, contact the Douglas College Financial Aid Officer, New Westminster campus.

**PROGRAM DESCRIPTIONS**

**GENERAL STUDIES PROGRAM**

The General Studies Program at Douglas College has been designed as an alternative to both the Career and University Transfer Programs. General Studies allows a student to design a framework for studies independent of occupational or university transfer requirements.

The student may select any course in the calendar for which he or she meets the prerequisites. Some courses will offer transfer credit to a university, BCIT or a professional society while others will not. Students will qualify for the Diploma of Associate Arts (A.A.) on completion of sixty credits.

One course especially designed for the new student seeking an overview of the world of knowledge is Humanities 34-130 "Frontiers of Thought."

For information about programs see PROPOSED PROGRAMS.

**Social Service Animator**

This is both a one and two year program designed for those wishing to work part-time or full-time within the cultural and social settings of a community. An individual may work directly towards the Diploma of Associate in Arts (A.A.) or decide upon a more limited objective in the form of a college certificate in a specialist field. Certain courses in the program are transferable to other career programs such as Child Care Services and Law Enforcement/Corrections.

There are few clearly defined employment opportunities in the social service settings in the community. Nevertheless, the community has expressed a need for people to be involved in volunteer and group development activities. The program is structured for the individual who wishes to work as a volunteer or paid community organizer with skills in research, liaison and the co-ordination of community activities.

To ensure that practical links with the community are developed during the training program, approximately half of the program time will be devoted to community settings. One example might be volunteer work with the information services in the Richmond area. Major fields in which practicum will be developed include public and community services, rehabilitation services, care of people services (particularly the senior citizen or handicapped) and recreation services.

The first two semesters include contemporary psychology and the art of human relations, linked with social service skills. The second year of the program will include the organization and administration of community projects and social services. The student may select electives such as probation and parole, community relations, social and cultural anthropology, culture and environment, recreation or hobby crafts.

Interested full-time or part-time students are urged to make an early appointment with college counsellors prior to registration.

**CAREER PROGRAMS**

**Accounting**

There is a steady demand for accountants with professional qualifications. The Douglas College program will provide some of the accounting training needed to enter this field.

This program also matches the content and standards of various courses offered by the Certified General Accountants Association, the Society of Industrial Accountants, and certain requirements of the Institute of Chartered Accountants.

Successful completion of this diploma program can lead to exemption of about one-half of the academic program leading toward the RIA and CGA designations. As course requirements for the CGA and RIA programs change, corresponding alterations may be made to the Douglas College program.

Should you have questions regarding your specific career requirements, you are invited to contact the College Counselling Centre.

**SEMESTER I**

| Course | Descriptive Title           | Credits |
|--------|-----------------------------|---------|
| 81-110 | Accounting Principles ..... | 3       |
| 86-130 | Business Mathematics .....  | 3       |
| 86-120 | Business Law .....          | 3       |
| 92-110 | Communications .....        | 3       |
|        | Elective .....              | 3       |

**SEMESTER II**

|        |                                  |   |
|--------|----------------------------------|---|
| 81-210 | Accounting Principles .....      | 3 |
| 86-220 | Business Law .....               | 3 |
| 81-240 | Electronic Data Processing ..... | 3 |
| 86-210 | Personnel Practices .....        | 3 |
|        | Elective .....                   | 3 |

**SEMESTER III**

|        |                               |   |
|--------|-------------------------------|---|
| 86-330 | Business Statistics .....     | 3 |
| 83-311 | Principles of Economics ..... | 3 |
| 81-310 | Accounting Theory .....       | 3 |
| 81-320 | Cost Accounting .....         | 3 |
|        | Elective .....                | 3 |

**SEMESTER IV**

|        |                               |   |
|--------|-------------------------------|---|
| 81-420 | Cost Accounting .....         | 3 |
| 81-410 | Accounting Theory .....       | 3 |
| 83-411 | Principles of Economics ..... | 3 |
| 81-440 | Information Systems .....     | 3 |
|        | Elective .....                | 3 |

Electives may be chosen from any discipline. Examples of options in the business area are:

|        |                                  |   |
|--------|----------------------------------|---|
| 86-105 | Basic Business Finance .....     | 3 |
| 86-110 | Introduction to Management ..... | 3 |
| 86-170 | Office Equipment .....           | 3 |
| 86-270 | Office Systems .....             | 3 |
| 84-290 | Marketing Management .....       | 3 |
| 86-310 | Industrial Relations .....       | 3 |

**Arts and Crafts Technician Specialist**

This program is designed for those wishing to work part-time or full-time in a community, within an arts and crafts recreational and cultural setting.

There are only a few clearly defined employment opportunities in community settings for graduates. Nevertheless, there is an expressed community and social need. The program concerns itself with the individual who wishes to work in a "recreational" setting within the community, assisting professional recreation personnel in the design, development and implementation of crafts and arts program. The successful graduate will also be able to instruct in at least one of the accepted arts or crafts. The graduate will be able to provide help to special community groups such as older adults or the handicapped, who are unable, or do not wish to follow the pursuits associated with the term "recreation".

Time will be allocated to enable the student to carry out projects in community settings such as assistance to adult educators at or to recreational directors, to opportunities for youth or local projects in the college region.

The program is available to part-time students for up-grading and refresher purposes.

Full-time and part-time students are urged to make an appointment with a college counsellor or the program co-ordinator prior to registration.

**Business Certificate Program**

The Business Certificate Program consists of 10 courses (30 credits) designed to serve the needs of the adult part-time evening student who is actively engaged in the professional and business worlds.



The courses are grouped to provide the student with a background in the management aspect of business. These course groupings give both a "fundamentals" approach in the five required courses (Group I — 15 credits) and an opportunity to specialize in an area of preference by a choice within the Business Options (Group II — 12 credits). The remaining course (Group III — 3 credits) may be chosen from among the credit courses offered by the College.

**GROUP I — REQUIRED COURSES — 15 CREDITS**

| Course | Descriptive Title                              | Credits |
|--------|--|---------|
| 81-100 | Introduction to Accounting .....               | 3       |
| 83-100 | Fundamentals of Economics .....                | 3       |
| 86-110 | Introduction to Management .....               | 3       |
| 86-120 | Business Law .....                             | 3       |
| 92-110 | Career Communications (written and oral) ..... | 3       |

**GROUP II — BUSINESS OPTIONS — 12 CREDITS**  
(Pick four of seven)

|        |  |   |
|--------|--|---|
| 84-290 | Marketing Management .....                   | 3 |
| 86-105 | Basic Business Finance .....                 | 3 |
| 86-140 | Intro. to Electronic Data Processing .....   | 3 |
| 86-210 | Personnel Practices and Administration ..... | 3 |
| 86-300 | Money and Financial Institutions .....       | 3 |
| 86-310 | Industrial Relations .....                   | 3 |
| 86-380 | Operations Management .....                  | 3 |

**GROUP III — ELECTIVE — 3 CREDITS**

A course chosen from the credit course offerings of the College.

**Child Care Nursery Supervisor**

This program provides a one year college certificate. It is designed to prepare students for positions in British Columbia where professional care of infants and young children is required.

The *Certificate Program* is available to both part and full-time students and is planned to reflect the basic standards set by the appropriate Provincial licensing authority and the level at which the successful graduate may be employed. Students who wish to work towards a certificate and accreditation should carefully plan their courses with a counsellor and the program co-ordinator before registration.

The program will concentrate on subjects such as early childhood education, human relations, family and society, health and nutrition and parent-staff relationships. Supporting these core subjects are electives courses. The full-time program will include both observation and work experience in children's centres for two days each week.

A wide range of electives is available. Specialty fields will be arranged in consultation with college counselling faculty and the program co-ordinator.

**Child Care Services Program**

This one year Certificate program prepares students for employment as Child Care Workers in a variety of settings, most of which provide 24-hour care. These may include reception centres, group homes, treatment centres, institutions, and student residences operated by the Department of Indian Affairs. These resources provide care for children with various needs and/or disabilities.

The program combines theoretical information and practical field experience. Since it has a limited enrollment, if you wish to register you should contact the Admissions Office to arrange an interview regarding your eligibility. If you are not admitted to the program, you may take certain courses, with the exception of the practicum. The certificate is granted when the program, including the practicum, is successfully completed. Please note that new students are accepted in the fall semester only.

The practical field experience is an integral part of the program. It involves training in a variety of child care settings, and you must be prepared to accept the practicum placements at the times and places arranged by the College.

**SEMESTER I**

| Course | Descriptive Title                       | Hrs-wk | Credits |
|--------|---|--------|---------|
| 69-100 | Human Relations — Emotional Growth..... | 4      | 3       |
| 69-110 | Child Care Methods .....                | 4      | 3       |
| 69-180 | Child Care Practicum .....              | 2 days | 3       |
| 92-110 | Career Communications .....             | 4      | 3       |
| 64-100 | Hobbycrafts .....                       | 4      | 3       |
| 69-130 | First Aid .....                         | 4      | 1       |
|        | Elective .....                          |        | 3       |

**SEMESTER II**

|        |  |        |   |
|--------|--|--------|---|
| 69-200 | Human Relations — Emotional Maturity ... | 4      | 3 |
| 69-210 | Child Care Techniques .....              | 4      | 3 |
| 69-280 | Child Care Practicum .....               | 2 days | 3 |
| 69-121 | Administration & Organization .....      | 4      | 3 |
| 92-290 | Applied Communications .....             | 4      | 3 |
| 64-101 | Recreation .....                         | 4      | 3 |
|        | Elective .....                           |        | 3 |

**Commerce and Business Administration**

Since many students wishing to prepare for business careers do not have, at the outset of their studies, well defined career objectives, the Douglas College Commerce and Business Administration program has been designed to provide the student with maximum flexibility in his choice of options. The program should, therefore, appeal to both those wishing a general business education and those having a specific career in mind.

The content of the first and second semesters of the program provides a basic introduction to the environment and underlying principles and practices of business. It is expected that during these initial semesters the student will be able to define his goals and identify the areas of business which particularly interest him. Accordingly, the third and fourth semesters offer a wide variety of business options to enable the student to select a series of courses concentrating on specific fields of business activity and operations.

**SEMESTER I**

| Course | Descriptive Title                | Credits |
|--------|----------------------------------|---------|
| 81-100 | Introduction to Accounting ..... | 3       |
| 86-100 | Introduction to Business .....   | 3       |
| 86-170 | Office Equipment .....           | 3       |
| 92-110 | Career Communications .....      | 3       |
|        | Elective .....                   | 3       |

**SEMESTER II**

|        |                                 |   |
|--------|---------------------------------|---|
| 83-100 | Fundamentals of Economics ..... | 3 |
| 86-120 | Business Law .....              | 3 |
| 86-130 | Business Mathematics .....      | 3 |
| 86-270 | Office Systems .....            | 3 |
|        | Elective .....                  | 3 |

**First Year Business Options:**

|        |  |   |
|--------|--|---|
| 84-100 | Retail Merchandising .....                 | 3 |
| 84-120 | Introduction to Marketing .....            | 3 |
| 86-140 | Intro. to Electronic Data Processing ..... | 3 |

**SEMESTER III**

|        |   |   |
|--------|---|---|
| 86-105 | Basic Business Finance .....                | 3 |
| 86-210 | Personnel Practice and Administration ..... | 3 |
|        | Business Option .....                       | 3 |
|        | Business Option .....                       | 3 |
|        | Elective .....                              | 3 |

**Third Semester Business Options:**

|        |  |   |
|--------|--|---|
| 86-106 | Personal and Consumer Finance .....        | 3 |
| 86-110 | Introduction to Management .....           | 3 |
| 86-111 | Small Business Management .....            | 3 |
| 86-200 | Fundamentals of Business .....             | 3 |
| 86-350 | Intro. to Traffic and Transportation ..... | 3 |
| 86-360 | Travel Agent .....                         | 3 |

**SEMESTER IV**

|        |                                       |    |
|--------|---------------------------------------|----|
| 86-301 | Advertising Seminar .....             | 1½ |
| 86-330 | Business Statistics .....             | 3  |
| 86-402 | The Business Profession Seminar ..... | 1½ |
|        | Business Option .....                 | 3  |
|        | Business Option .....                 | 3  |
|        | Elective .....                        | 3  |

**Fourth Semester Business Options:**

|        |  |   |
|--------|--|---|
| 84-210 | Dynamic Selling .....                  | 3 |
| 86-109 | Supervisory Management .....           | 3 |
| 86-205 | Security Analysis and Investment ..... | 3 |
| 86-220 | Business Law .....                     | 3 |
| 86-300 | Money and Financial Institutions ..... | 3 |
| 86-310 | Industrial Relations .....             | 3 |
| 86-380 | Operations Management .....            | 3 |
| 86-460 | Travel Agent .....                     | 3 |

NOTE: Students who consider that professional accounting may possibly be their career choice should enrol in Accounting Principles 81-110 instead of 81-100 in Semester I.

In each semester of the program, 12 credits of Business subjects (4 courses) and 3 credits of electives are required.

Electives may be chosen from any discipline.

**Construction Management**

This program consists of 10 core courses dealing extensively with the functions related to organization and control of a construction project, whether it be a single family dwelling or a large dam project. In addition, there are a number of service courses on materials, methods, and applications to the industry which help the student to visualize what is being managed as he studies the core courses.

The two-year program leading to the Diploma of Associate of Technology (A.T.) requires that a student complete both the core and service courses. It is geared to students who have just completed high school and wish to enter the industry with some managerial training. Graduates should expect to enter the construction industry in a junior capacity, such as assistant to an estimator or project supervisor. Promotion to supervisory positions will require considerable work experience. Students wishing to enter this program must have completed Math 11 or equivalent.

The 10 core courses are also offered in the evening. This enables persons already in the industry, whose knowledge of the service course material is extensive as a result of job experience, to study the managerial aspects in detail. Successful completion of the core courses entitles the student to the Certificate in Construction Management.

The purpose of the course content of this program has been to produce a package that both suits the needs of the industry and reflects techniques of profit-making being used today. To this end, the program was set up in consultation with an advisory committee consisting primarily of members of the Amalgamated Construction Association of B.C. By adopting their suggestions and obtaining their approval of every aspect of the program, the College is endeavoring to offer a career program which can lead directly into employment in the industry.

Because those who enter the diploma program may or may not have had any field training in the industry, summer work experience is a requirement. Opportunities are provided between the second and third semesters for on-the-job experience which will assist the student in eventual placement.

**Program Leading to Diploma of Associate in Technology (A.T.):**

**SEMESTER I**

| Course | Descriptive Title                             | Credits |
|--------|---|---------|
| 70-110 | Construction Written Communications .....     | 3       |
| 70-220 | Construction Materials and Applications ..... | 3       |
| 70-130 | Drafting .....                                | 2       |
| 70-140 | Construction Science .....                    | 3       |
| 70-150 | Construction Calculations .....               | 3       |
|        | Elective .....                                | 1-3     |

**SEMESTER II**

|        |   |     |
|--------|---|-----|
| 70-100 | Construction Oral Communications .....        | 3   |
| 70-200 | Introduction to Management .....              | 3   |
| 70-220 | Construction Materials and Applications ..... | 3   |
| 70-230 | Construction Blueprint Reading .....          | 2   |
| 70-140 | Construction Science .....                    | 3   |
|        | Elective .....                                | 1-3 |

**SEMESTER III**

|        |  |     |
|--------|--|-----|
| 70-300 | Construction Management .....          | 3   |
| 70-301 | Construction Labor Relations .....     | 3   |
| 70-320 | Construction Strength and Design ..... | 3   |
| 70-360 | Construction Estimating .....          | 3   |
| 70-390 | Construction Surveying .....           | 3   |
|        | Elective .....                         | 1-3 |

**SEMESTER IV**

|        |   |     |
|--------|---|-----|
| 70-400 | Office Management .....                   | 3   |
| 70-460 | Construction Estimating and Bidding ..... | 3   |
| 70-490 | Structures .....                          | 3   |
| 70-492 | Construction Scheduling .....             | 3   |
| 70-493 | Project and Contract Management .....     | 3   |
|        | Elective .....                            | 1-3 |

**Program Leading to Certificate in Construction Management:**

|        |   |   |
|--------|---|---|
| 70-100 | Construction Oral Communications .....    | 3 |
| 70-110 | Construction Written Communications ..... | 3 |
| 70-200 | Introduction to Management .....          | 3 |
| 70-300 | Construction Management .....             | 3 |
| 70-301 | Construction Labor Relations .....        | 3 |
| 70-360 | Construction Estimating .....             | 3 |
| 70-400 | Office Management .....                   | 3 |
| 70-460 | Construction Estimating and Bidding ..... | 3 |
| 70-492 | Construction Scheduling .....             | 3 |
| 70-493 | Project and Contract Management .....     | 3 |

**Fashion Design and Clothing Technology**

This two year program leads to the Diploma of Associate in Arts (A.A.). A limited enrolment is predicated on annual employment opportunities. Please note that new students are accepted in the fall semester only.

The program provides a broad fundamental knowledge of all essentials in the fashion area: creative designing, the arts of draping and pattern drafting where creative concepts are translated into producible garments, and construction — the manual techniques for implementing the previous stages.

The four semester program has a core content of four courses: pattern drafting, apparel design and textiles, draping and construction — plus two electives each semester. Communications is a required course.

Although the four core courses are required, students are encouraged to select options that will contribute to their future ability in the area of the fashion industry which best suits their talents and preferences; e.g., wholesale and retail merchandising, mass production, pattern making, couture, theatrical design, or journalism.

Techniques that simulate the professional atmosphere are used extensively in the learning experience. All equipment used is industrial. An industrial flow is achieved by the inter-relation of all core courses, which are primarily laboratory situations.

The apparel design and textiles course is the exception, where lectures and research form part of the course. Courses are supplemented by field trips, slide presentations, films, and the appearance of guest speakers.

Second-semester students participate in work experience, such as the industry's "Market Week" or working in manufacturing agents' showrooms. Third and fourth semester students are responsible for the design and execution of costumes for College plays whenever feasible. Fourth semester students engage in a practicum one day a week, on a rotation basis, to provide on-the-job training in many of the varied fashion areas. Upon completion of this semester, students produce and take part in fashion shows, thus bringing into focus their training throughout the two year period.

Practical field work is an integral part of this program. It involves training in a variety of fashion settings. You must be prepared to accept field placements at a time and place arranged by the College.

*Some suggested electives for fashion program:*

Accounting 81-100, 110, 210, 320; Merchandising 84-100, 84-210; Business 83-100, 86-100, 110; English 92-110, 92-290; Fashion 61-390, 61-121, 61-370; Art 11-120, 160, 260; Fashion Illustration 13-140, 240, 340, 440; Inter-departmental 34-130.

**SEMESTER I**

| Course | Descriptive Title                       | Credits |
|--------|---|---------|
| 61-100 | Flat Pattern Drafting .....             | 3       |
| 61-110 | Introductory French Draping .....       | 1       |
| 61-120 | Basic Apparel Design and Textiles ..... | 3       |
| 61-130 | Fundamental Apparel Construction .....  | 1       |
|        | Elective .....                          | 3       |

**SEMESTER II**

|        |   |   |
|--------|---|---|
| 61-200 | Intermediate Flat Pattern Drafting .....    | 3 |
| 61-210 | Applied French Draping .....                | 1 |
| 61-220 | Developed Apparel Design and Textiles ..... | 3 |
| 61-230 | Secondary Apparel Construction .....        | 3 |
|        | Elective .....                              | 3 |

**SEMESTER III**

|        |  |   |
|--------|--|---|
| 61-300 | Senior Flat Pattern Drafting .....           | 3 |
| 61-310 | Creative French Draping .....                | 1 |
| 61-320 | Commercial Apparel Design and Textiles ..... | 3 |
| 61-330 | Senior Apparel Construction .....            | 3 |
|        | Elective .....                               | 3 |

**SEMESTER IV**

|        |  |   |
|--------|--|---|
| 61-400 | Advanced Flat Pattern Drafting .....           | 3 |
| 61-410 | Commercial Application of French Draping ..... | 1 |
| 61-420 | Advanced Apparel Design and Textiles .....     | 3 |
| 61-430 | Advanced Apparel Construction .....            | 3 |

**Fire Science**

This program allows a student to work toward a Certificate in Fire Science, gaining special knowledge in two of the fields of fire insurance, fire prevention, fire suppression, fire investigation, and fire science technology. The objective is to provide persons already connected with the field of fire and fire prevention with detailed technical information relating to one of these fire areas.

To complete the certificate requirements, a student is required to complete three core courses: Chemistry of Fire, Survey of Fire Science and Business and Technical Communications. In addition, he will study two courses in his area of interest which will channel him into two of the five areas of specialization. The program therefore serves the needs of all the major areas connected with the fire field, by providing courses of study in each.

Since a course lasts one semester, a student will attend evening classes for a maximum of five semesters and a minimum of three semesters to complete the program. Where required, classes will be arranged on a "swing-shift" basis to accommodate shift-workers.

**Program Leading to Certificate in Fire Science:**

| Course | Descriptive Title             | Credits |
|--------|-------------------------------|---------|
| 63-100 | Chemistry of Fire .....       | 3       |
| 63-101 | Survey of Fire Science .....  | 3       |
| 63-270 | Fire Insurance .....          | 3       |
| 63-271 | Fire Prevention .....         | 3       |
| 63-272 | Fire Suppression .....        | 3       |
| 63-273 | Fire Investigation .....      | 3       |
| 63-274 | Fire Science Technology ..... | 3       |
| 92-110 | Career Communications .....   | 3       |

**Graphic and Communication Arts**

This two year program, leading to the Diploma of Associate in Arts (A.A.), prepares students for a wide variety of positions in advertising and allied areas of the creative arts. Please note that new students are accepted in the fall semester only.

Talent can be small but must accompany a capacity for unlimited effort. Skill and dexterity can come only from practice and perseverance in the subject. Technique is but a part of the contemporary artist who needs to acquire knowledge and judgment in many phases of the profession to become a practitioner.

The program provides a foundation of thorough knowledge and skill in the basics, from which the student's creative potential can grow and which will stand him in good stead regardless of career choice.

The student should possess enthusiasm, a desire to compete, and willingness to give and accept constructive criticism.

The courses take a professional approach, solving problems closely related to those found in the field and often working on a deadline basis.

Students must take a common core of first semester courses to discover their potential and to decide on a career; second and third semesters provide opportunities to specialize in any one of four related career areas; the fourth brings the student to the level of competency required to enter a chosen career.

Possible career areas include:

Advertising, commercial artist, commercial illustrator, fashion illustrator, layout artist, retouch artist, paste-up artist, production assistant, account executive;

Display, visual merchandising in retail, industrial, education, and cultural outlets;

In-plant printing, paste-up and mechanical, lithographers, newspapers, signs, silkscreen, billboards;

Audio-visual, graphic artist, educational, industrial, business, photography.

Following is the sequence of courses:

**SEMESTER I**

| Course | Descriptive Title                                 | Credits |
|--------|---|---------|
| 13-100 | Basic Drawing .....                               | 4       |
| 13-110 | Introduction to Commercial Illustration .....     | 3       |
| 13-120 | Introduction to Graphics and Applied Design ..... | 4       |
| 13-131 | Lettering, layout, Typography .....               | 1½      |
| 13-135 | Introduction to Advertising .....                 | 3       |
| 13-150 | Graphic Arts (Technical) .....                    | 1½      |
|        | Credits for Semester .....                        | 17      |



**Career Options**

| Course Descriptive Title                              | Career Options |             |                |              |
|---|----------------|-------------|----------------|--------------|
|   | Credits        | Advertising | Repro-Graphics | Audio-Visual |
| <b>SEMESTER II</b>                                    |                |             |                |              |
| 13-121 History of Graphic Communication .....         | 3              | X           | X              | X            |
| 13-152 Graphics in A/V Communications .....           | 1              |             |                | X            |
| 13-200*Drawing .....                                  | 4              | X           |                |              |
| 13-210 Commercial Illustration .....                  | 3              | X           | X              |              |
| 13-220*Graphics and Applied Design .....              | 4              | X           | X              | X            |
| 13-231 Lettering, Layout and Typography .....         | 1½             | X           | X              | X            |
| 13-250 Graphic Arts (Technical) .....                 | 1½             |             | X              | X            |
| 92-110 Career Communications .....                    | 3              |             |                |              |
| Elective .....  | 3              | X           | X              | X            |
| Total credits for semester .....                      |                | 18½         | 16             | 17           |
| <b>SEMESTER III</b>                                   |                |             |                |              |
| 13-151 Technology of Graphic Communications .....     | 3              | X           | X              | X            |
| 13-300*Intermediate Drawing and Painting .....        | 4              | X           |                |              |
| 13-310 Intermediate Commercial Illustration .....     | 3              | X           |                |              |
| 13-320*Intermediate Graphics and Applied Design ..... | 4              | X           | X              | X            |
| 13-350 Graphic Arts (Technical) .....                 | 1½             |             | X              | X            |
| 13-153 Audio Visual Technology .....                  | 3              |             |                | X            |
| 86-120 Introduction to Business .....                 | 3              |             | X              | X            |
| 92-110 Career Communications .....                    | 3              |             | X              |              |
| Elective .....  | 3              | X           | X              | X            |
| Total credits for semester .....                      |                | 17          | 17½            | 17½          |
| <b>SEMESTER IV</b>                                    |                |             |                |              |
| 13-400*Advanced Drawing and Painting .....            | 4              | X           |                |              |
| 13-410 Advanced Commercial Illustration .....         | 3              | X           |                |              |
| 13-420 Advanced Graphics and Applied Design .....     | 4              | X           | X              | X            |
| 13-450 Graphic Arts (Technical) .....                 | 1½             |             | X              | X            |
| 13-154 Audio-Visual Communications .....              | 3              |             |                | X            |
| 86-110 Introduction to Management .....               | 3              |             | X              | X            |
| 13-290 Applied Communications .....                   | 3              | X           | X              |              |
| Elective .....  | 3              | X           | X              | X            |
| Total credits for semester .....                      |                | 17          | 14½            | 14½          |

**MAY BE TAKEN IN PLACE OF Graphics and Applied Design:**

- 13-122\* Procedures in Advertising Art (3 credits)
- 13-222\* Procedures in Advertising Art (3 credits)

**MAY BE TAKEN IN PLACE OF Drawing:**

- 13-240\* Fashion Illustration (3 credits)
- 13-340\* Fashion Illustration (3 credits)
- 13-440\* Fashion Illustration (3 credits)

**Interior Design**

A two year program leading to the Diploma of Associate in Arts (A.A.). It prepares students for positions in retail and contract sales departments, and in selling interior design services and furnishings. Graduates may find employment in design studios, paint, fabric, carpet, drapery and wallpaper outlets, manufacturers, distributors, and representatives of office and home furnishings.

Courses include drafting, theory of design, color, drawing, residential and commercial interior design, presentation techniques and furniture construction. Time is provided for electives and field trips.

A work experience session will materially assist in eventual job placement, as well as in introducing the student to practical problems of the industry. Please note that new students are accepted in the fall semester only.

**SEMESTER I**

| Course | Descriptive Title                  | Credits |
|--------|------------------------------------|---------|
| 68-100 | Drawing for Interior Design .....  | 3       |
| 68-101 | Introduction to Color .....        | 2       |
| 68-102 | Italian and French Furniture ..... | 3       |
| 68-104 | Materials of Design .....          | 1       |
| 68-110 | Theory of Design .....             | 2       |
| 68-120 | Drafting and Perspective .....     | 3       |
|        | Elective .....                     | 3       |

**SEMESTER II**

|        |                                      |   |
|--------|--------------------------------------|---|
| 68-200 | Drawing for Interior Design .....    | 1 |
| 68-203 | English and American Furniture ..... | 3 |
| 68-205 | Materials for Interior Design .....  | 2 |
| 68-210 | Theory of Residential Design .....   | 2 |
| 68-220 | Residential Interior Design .....    | 3 |
| 68-221 | Rendering and Presentation .....     | 1 |
|        | Elective .....                       | 3 |

**SEMESTER III**

|        |   |     |
|--------|---|-----|
| 68-310 | Theory of Office Interior Design .....        | 2   |
| 68-320 | Office Interior Design .....                  | 3   |
| 68-321 | Graphic Presentation .....                    | 1   |
| 68-380 | Interior Design Work Experience .....         | 1-5 |
| 86-112 | Business Procedures for Interior Design ..... | 3   |
|        | Elective .....                                | 3   |

**SEMESTER IV**

|        |   |   |
|--------|---|---|
| 68-405 | Projects in Interior Design .....           | 1 |
| 68-406 | Special Projects in Design .....            | 2 |
| 68-410 | Theory of Hotel-Motel Interior Design ..... | 2 |
| 68-420 | Hotel-Motel Interior Design .....           | 3 |
| 68-421 | Graphic Presentation .....                  | 1 |
| 92-110 | Career Communications .....                 | 3 |
|        | Elective .....                              | 3 |

**Land Use Management**

This is a two year diploma program leading to a Diploma of Associate in Arts (A.A.). It has been designed to prepare students for employment in the fields of environmental planning and land management. This program emphasizes rural planning and multiple land use aspect of the field of landscape architecture. The program has been designed in consultation with the British Columbia Society of Landscape Architects and the Society will accredit graduates as Junior Members.

The program consists of a combination of theory, practical and on-job summer training, ensuring that the graduate will have a background which will enable him to gain employment in the industry.

The program is scheduled so that persons already employed in the field can use it for part-time refresher and upgrading purposes.

The first two of the four semesters of the course will emphasize drafting, horticulture, land management, writing, business methods, science and mathematics.

The second two semesters will relate to the problems of land management and development planning and practices. Business operations, estimating and specifications, business law, and project studies will be included.

**Law Enforcement/Corrections**

A two-year Diploma Program (Full-time).

For those not presently employed in police or corrections work, this program offers courses leading to the Certificate and Diploma of Associate in Arts (A.A.). The certificate program requires the equivalent of one year or two semesters full-time attendance. The diploma program is a two year or four semester program. Both programs may be taken by part-time students.

The program was designed with the advice and assistance of an advisory committee comprising representatives of employing agencies in the field. These agencies have agreed to consider graduates as preferred recruits in law enforcement and corrections, providing the other employer requirements are met.

For full-time students, the program offers a core of required subjects and a full range of electives which may be taken from courses listed in the Calendar.

Continuing education students also have a wide choice of options. The choice depends on whether the student is employed in a police or a corrections agency.

The program attempts to build a firm base of subjects directly related to law enforcement and corrections, as well as to introduce the student to the foundations of the social sciences. Courses offered in the social sciences are transferable to various Canadian universities. Therefore, the classes consist of a desirable mix of full-time students of varying interests, and part-time students employed in law enforcement or corrections.

**Two year diploma program (full time):**

| Course  | Descriptive Title                                      | Credits | Sem.   |
|---------|--|---------|--------|
| 28-100  | Foundations of Contemporary Psychology .....           | 3       | 1      |
| 23-125  | Social Processes .....                                 | 3       | 1      |
| 62-106  | Organization of Police and Correctional Services ..... | 3       | 1      |
| 92-110  | Career Communications .....                            | 3       | 1      |
| 22-110  | Ideology and Politics .....                            | 3       | 2      |
|         | or   |         |        |
| 22-120  | Canadian Government .....                              | 3       | 2      |
| 28-200  | Foundations of Contemporary Psychology .....           | 3       | 2      |
| 62-108  | Crime Causation .....                                  | 3       | 2      |
| 92-290  | Applied Communications .....                           | 3       | 2      |
| 22-105  | The Canadian Legal System .....                        | 3       | 3      |
| 28-321  | Adolescent Psychology .....                            | 3       | 3      |
|         | or   |         |        |
| 28-330  | Introduction to Social Psychology .....                | 3       | 3      |
|         | or   |         |        |
| 28-350  | Conceptual Frameworks of Abnormal Psychology .....     | 3       | 3      |
| 62-102  | Criminal Law and the Offender .....                    | 3       | 3      |
| 52-101  | Probation and Parole .....                             | 3       | 4      |
| 62-107  | Community Agencies .....                               | 3       | 4      |
| 52-140  | Interviewing .....                                     | 3       | 4      |
| *62-380 | Law Enforcement/Corrections Practicum .....            | 3       | 3 or 4 |

\*This course consists of work experience. It may be taken as an option in the 3rd or 4th semester.

In addition, a further 18 credits (six courses) are required to complete the diploma program. These electives, which may be selected from any courses in the Calendar, should normally be taken as follows:

- a) One elective in each of the first and second semesters;
- b) Two electives in each of the third and fourth semesters.

**One Year Certificate Program (Full-time)**

| Course | Descriptive Title            | Credits | Sem. |
|--------|------------------------------|---------|------|
| 92-110 | Career Communications .....  | 3       | I    |
| 92-290 | Applied Communications ..... | 3       | II   |

In addition, a further 27 credits (nine courses) are required to complete the certificate program. These additional courses are selected from among those listed for the diploma program.

**Program for Serving Police and Corrections Officers**

| Course | Descriptive Title            | Credit |
|--------|------------------------------|--------|
| 92-110 | Career Communications .....  | 3      |
| 92-290 | Applied Communications ..... | 3      |

Plus 24 credits (eight courses) from the following list for certificate students. Diploma students require an additional 18 courses (54 credits), of which a minimum of 36 credits (12 courses) must be chosen from the following list. The balance of 6 courses (18 credits) may be chosen from this list or from among other courses.

| Course | Descriptive Title                                  | Credits |
|--------|--|---------|
| 22-105 | Canadian Legal System .....                        | 3       |
| 22-110 | Ideology and Politics .....                        | 3       |
| or     |  |         |
| 22-120 | Canadian Government .....                          | 3       |
| 23-125 | Social Processes .....                             | 3       |
| 28-100 | Foundations of Contemporary Psychology .....       | 3       |
| 28-200 | Foundations of Contemporary Psychology .....       | 3       |
| 28-321 | Adolescent Psychology .....                        | 3       |
| or     |  |         |
| 28-330 | Introduction to Social Psychology .....            | 3       |
| or     |  |         |
| 28-350 | Conceptual Frameworks of Abnormal Psychology ..... | 3       |
| 62-101 | Probation and Parole .....                         | 3       |
| 62-102 | Criminal Law and the Offender .....                | 3       |
| 62-103 | Community Relations .....                          | 3       |
| 62-104 | Rehabilitation and the Prison Community .....      | 3       |
| 62-107 | Community Agencies .....                           | 3       |
| 62-108 | Crime Causation .....                              | 3       |
| 62-140 | Interviewing .....                                 | 3       |
| 69-100 | Emotional Growth .....                             | 3       |
| 69-200 | Emotional Awareness .....                          | 3       |
| 69-300 | Skills, Methods, Techniques .....                  | 3       |
| 69-400 | Problems of Abnormal Behavior .....                | 3       |

**Marketing**

**OPTIONS:**

- a) Retail Merchandising
- b) Sales and Marketing
- c) Visual Merchandising

This program is designed to prepare graduates to enter the field of marketing. Students are required to take a common core of first semester courses to discover their potential and to decide on a career. The second and third semesters provide opportunities to specialize in any one of three related career areas; the fourth semester brings the student to the level of competency required to enter his chosen career.

The *Sales and Marketing* option will help the graduate to assume a direct role with companies in the field and provide the background necessary to progress toward managerial positions. It should be noted that the sales practicum in the third semester requires actual sales experience. It will be the responsibility of the student to meet this requirement.

The *Retail Merchandising* option is designed to prepare graduates to enter the field of merchandising at the selling level with sufficient background to enable them to advance to supervisory positions. Emphasis of the third semester is on work experience, including 300 to 400 hours work in a retail outlet. In conjunction with this, seminars are held at the college.

The *Visual Merchandising* option will provide graduates with specialist knowledge of a wide range of products, their handling, storage and presentation in imaginative and appealing settings. The latest European techniques and training methods will be incorporated to produce what is expected to be an unique career program in North America. The close co-operation and support of the major sales outlets in the Lower Mainland will ensure that worthwhile and rewarding on-the-job training positions will be available throughout the program to provide practical training.

|                     |   | Career Options: |                      |                     |
|---------------------|---|-----------------|----------------------|---------------------|
|                     |   | Credits         | Retail Merchandising | Sales and Marketing |
| <b>SEMESTER I</b>   |   |                 |                      |                     |
| <b>Course</b>       | <b>Descriptive Title</b>                    |                 |                      |                     |
| 81-100              | Introduction to Accounting .....            | 3               | X                    | X                   |
| 84-120              | Introduction to Marketing .....             | 3               | X                    | X                   |
| 86-100              | Introduction to Business .....              | 3               | X                    | X                   |
| 92-110              | Communications .....                        | 3               | X                    | X                   |
|                     | Elective .....                              | 3               | X                    | X                   |
| <b>SEMESTER II</b>  |   |                 |                      |                     |
| 83-100              | Fundamentals of Economics .....             | 3               |                      | X                   |
| 84-100              | Retail Merchandising .....                  | 3               | X                    |                     |
| 84-210              | Dynamic Selling .....                       | 3               | X                    | X                   |
| 84-290              | Marketing Management .....                  | 3               | X                    | X                   |
| 86-120              | Business Law .....                          | 3               | X                    | X                   |
| 86-210              | Personnel Practice and Administration ..... | 3               | X                    | X                   |
|                     | Elective .....                              | 3               | X                    | X                   |
| <b>SEMESTER III</b> |   |                 |                      |                     |
| <b>Course</b>       | <b>Descriptive Title</b>                    |                 |                      |                     |
| 84-310              | Sales Workshop .....                        | 3               |                      | X                   |
| 84-380              | Work-Experience Preparation .....           | 2               | X                    |                     |
| 84-381              | 300-400 hrs. Work Experience .....          | 1-10            | X                    |                     |
| 84-382              | Work-Experience Seminars .....              | 3               | X                    |                     |
| 84-383              | Sales Practicum .....                       | 3               |                      | X                   |
| 86-106              | Personal and Consumer Finance .....         | 3               |                      | X                   |
| 86-200              | Fundamentals of Business .....              | 3               |                      | X                   |
| 92-290              | Applied Communications .....                | 3               |                      | X                   |
|                     | Elective .....                              | 3               | X                    | X                   |
| <b>SEMESTER IV</b>  |   |                 |                      |                     |
| 83-100              | Fundamentals of Economics .....             | 3               | X                    |                     |
| 84-410              | Sales Management .....                      | 3               |                      | X                   |
| 84-490              | Planning and Supervision .....              | 3               | X                    |                     |
| 86-140              | Intro. to Electronic Data Processing .....  | 3               | X                    | X                   |
| 86-210              | Personnel Practice and Administration ..... | 3               |                      | X                   |
| 86-301              | Advertising Seminar .....                   | 1½              | X                    | X                   |
| 86-402              | Business Profession — Seminar .....         | 1½              | X                    | X                   |
|                     | Elective .....                              | 3               | X                    | X                   |

Electives may be chosen from any discipline. Examples of options in the business area are:

|               |                                  | Career Options: |                      |                     |
|---------------|----------------------------------|-----------------|----------------------|---------------------|
|               |                                  | Credits         | Retail Merchandising | Sales and Marketing |
| <b>Course</b> | <b>Descriptive Title</b>         |                 |                      |                     |
| 84-100        | Retail Merchandising .....       | 3               |                      | X                   |
| 84-290        | Marketing Management .....       | 3               | X                    | X                   |
| 86-105        | Basic Business Finance .....     | 3               | X                    | X                   |
| 86-109        | Supervisory Management .....     | 3               |                      | X                   |
| 86-110        | Introduction to Management ..... | 3               | X                    |                     |
| 86-111        | Small Business Management .....  | 3               |                      | X                   |
| 86-130        | Business Mathematics .....       | 3               | X                    | X                   |
| 86-170        | Office Equipment .....           | 3               | X                    | X                   |
| 86-220        | Business Law .....               | 3               | X                    |                     |
| 86-270        | Office Systems .....             | 3               | X                    | X                   |
| 86-310        | Industrial Relations .....       | 3               | X                    | X                   |
| 86-330        | Business Statistics .....        | 3               |                      | X                   |
| 86-350        | Traffic and Transportation ..... | 3               |                      | X                   |
| 86-380        | Operations Management .....      | 3               |                      | X                   |

**Visual Art**

The program is designed to enable the students to acquire a solid foundation in the basic skills in the visual arts.

The program has no clearly established job potential but is nonetheless similar in structure to other career programs.

On completion of a two-year diploma program at Douglas a graduate student will have sufficient skill in a wide range of expressive media to enable him to continue, by himself or in an institution of further learning, to develop his creative potential whether it be for career purposes or self-fulfillment.

On satisfactory completion of the two-year program the student will receive a suitable diploma from Douglas College.

Selected courses and groups of courses within the program may be applied to University Transfer credit in Fine Arts and Education (see transfer guides).

A portfolio accumulated over the two years would be an excellent (and necessary) pre-requisite to enter third year at an art school.

Although the whole subject is under discussion and nothing has yet been decided, it is possible that credit for many of the individual courses in the proposed core program would be transferable to existing Graphic Art, Interior Design and Fashion Design programs.

**PRE-REQUISITES**

The College open door policy will apply and any well motivated student will be accepted — after consultation with counsellors and faculty.

**PROGRAM:**

**SEMESTER I**

| Course | Descriptive Title                    | Credits |
|--------|--------------------------------------|---------|
| 11-100 | Fundamental Drawing .....            | 3       |
| 11-110 | Fundamental Painting .....           | 3       |
| 11-120 | History of Western Art to 1600 ..... | 3       |
| 11-131 | Figure Sculpture .....               | 3       |
| 11-161 | Foundations of Design .....          | 3       |
|        | Elective .....                       | 3       |
|        |                                      | 18      |

**SEMESTER II**

|        |  |    |
|--------|--|----|
| 11-200 | Basic Drawing .....                          | 3  |
| 11-210 | Basic Painting .....                         | 3  |
| 11-121 | History of Western Art 1600 to Present ..... | 3  |
| 11-231 | Sculpture .....                              | 3  |
| 11-261 | Design .....                                 | 3  |
|        | Elective .....                               | 3  |
|        |  | 18 |

**SEMESTER III**

|         |  |    |
|---------|--|----|
| 11-300  | Intermediate Drawing .....               | 3  |
| 11-140  | Relief Printmaking .....                 | 1  |
| 11-311  | Explorations in Contemporary Media ..... | 3  |
| Two of: |  |    |
| 11-310  | Intermediate Painting .....              | 3  |
| 11-331  | Intermediate Sculpture .....             | 3  |
| 11-122  | Art History 1900-1945 .....              | 3  |
|         | Elective .....                           | 3  |
|         |  | 16 |

**SEMESTER IV**

|         |  |    |
|---------|--|----|
| 11-400  | Advanced Drawing .....                   | 3  |
| 11-141  | Art Silk-Screen Techniques .....         | 1  |
| 11-411  | Explorations in Contemporary Media ..... | 3  |
| Two of: |  |    |
| 11-410  | Advanced Painting .....                  | 3  |
| 11-431  | Advanced Sculpture .....                 | 3  |
| 11-222  | Art History 1945 to Present .....        | 3  |
|         | Elective .....                           | 3  |
|         |  | 16 |

**Vocational Rehabilitation Counselling**

(For practitioners in the field of rehabilitation)

Douglas College offers a basic certificate for the completion of the following four core courses, as well as the College certificate for the completion of the core courses and six additional courses (18 credits) at Douglas or another college:



| Course | Descriptive Title                                       | Credits |
|--------|---|---------|
| 69-150 | The Vocational Rehabilitation Process .....             | 3       |
| 69-151 | Medical Aspects of Vocational Rehabilitation .....      | 3       |
| 69-152 | Vocational Rehabilitation Counselling .....             | 3       |
| 69-153 | Community Resources and Vocational Rehabilitation ..... | 3       |

This program is in the evening during the fall and spring semesters, and in the daytime during summer session for practitioners in the field of vocational rehabilitation.

|                       |        |   |
|-----------------------|--------|---|
| Summer 1973 (Daytime) | 69-150 | The Vocational Rehabilitation Process             |
| Fall 1973 (Evenings)  | 69-151 | Medical Aspects of Rehabilitation                 |
| Spring 1974 (Daytime) | 69-152 | Vocational Rehabilitation Counselling             |
| Summer 1974 (Daytime) | 69-152 | Vocational Rehabilitation Counselling             |
|                       | 69-153 | Community Resources and Vocational Rehabilitation |

In developing this program, Douglas College has been materially assisted by the Vocational Rehabilitation Sub-committee of the British Columbia Panel for the Guidance of the Handicapped.

## CREDIT FOR STUDENT PROJECTS

Students may obtain College credit for completion of a project of their own choosing, subject to the Curriculum Committee's approval. Interested students should contact faculty to discuss preparation of a submission to the Committee. Credit for such projects will be on an individual basis.

## UNIVERSITY-TRANSFER PROGRAMS

### Art

#### Transfer Information

Students wishing to continue studies in fine arts at UBC will be asked to submit folios showing type of background acquired. They will then be fitted into UBC's program on an individual basis. In any event, such students should be aware of the extremely limited intake at the UBC department. Transfer depends on acceptance of student's portfolio and successful completion of the following courses at Douglas:

| Douglas College Courses   | UBC Courses                     |
|---|---------------------------------|
| Art 11-100, 11-110, 11-130, 11-131, 11-140, 11-141, 11-142, 11-161, (any two)                 | Fine Arts 181 (3 units)         |
| Art 11-120, 11-121  | Fine Arts 125 (3 units)         |
| Art 11-200, 11-210, 11-230, 11-260, 11-310, 11-330, 11-400, 11-410, 11-411, 11-430 (any four) | Fine Arts 281 (6 units)         |
| Art 11-122  | Fine Arts (1½ units) unassigned |
| Art 11-300, 11-311  | To be determined                |

The following courses are transferable to SFU as unassigned credit: 11-120, 11-121, 11-122, 11-222.

More information on transferability of Douglas courses to UBC may be found in the course descriptions section of this Calendar, under ART.

### Biology

Students intending to transfer to a major or honors program in biology should take the following courses in first year:

| SEMESTER I                 | SEMESTER II                   |
|----------------------------|-------------------------------|
| Biology 41-110 or 41-111   | Biology 41-110 or 41-111      |
| Chemistry 42-100 or 42-110 | Chemistry 42-200 or 42-210    |
| Mathematics 44-120         | Mathematics 44-220 and 44-131 |
| Physics 45-100 or 45-110   | Physics 45-200 or 45-210      |

In each semester, any two of Literature 91-101 to 91-120; Communications 92-100; Theatre 95-100; Creative Writing 96-100, 200.

Biology 110 or 111 may be taken in any order. A student with good standing in Biology 11 or 12 may be exempted from the two courses above with permission of a biology instructor. Exemption will be granted only to those students who take an advanced biology course.

| SEMESTER III     | SEMESTER IV      |
|------------------|------------------|
| Chemistry 42-320 | Chemistry 42-420 |

Students may take in any sequence, subject to the courses being offered, Biology 41-320, 321, 322, and 323. Students intending to transfer to third year at SFU or UBC with a biology major are advised to take at least two and preferably all of the above courses along with enough electives to accumulate 60 semester credits.

In addition, Biology 41-100 and 41-101 are offered to students requiring two semesters of a laboratory science.

Students who require biology as a prerequisite to a professional school should consult the appropriate school's calendar or a counsellor.

### Chemistry

Students intending to transfer to a major or honors program in chemistry are required to take the following courses in first year:

| SEMESTER I               | SEMESTER II              |
|--------------------------|--------------------------|
| Chemistry 42-110         | Chemistry 42-210         |
| Mathematics 44-120       | Mathematics 44-220       |
| Physics 45-100 or 45-110 | Physics 45-200 or 45-210 |

At UBC, Mathematics 44-131 is required, together with any two of Literature 91-101 to 120; Theatre 95-100; Creative Writing 96-100, 200; Communications 92-100; plus six semester credits of electives.

At SFU, it should be noted that students who take Physics 45-110, 210 are

given credit for Physics 201, 202 and 204, all of which are required.

Students may take their third and fourth semesters of chemistry at Douglas; but since our offerings are of a general nature, the universities have reserved the right to grant honors or major standing on the basis of individual performance, together with a recommendation from the department. The following courses should be taken:

| SEMESTER III                | SEMESTER IV                 |
|-----------------------------|-----------------------------|
| Chemistry 42-310 and 42-320 | Chemistry 42-410 and 42-420 |
| Mathematics 44-320          | Mathematics 44-420          |

### Commerce and Economics

Students interested in proceeding to UBC to take a degree in Commerce or a degree majoring in Economics; and students intending to continue at SFU towards a degree majoring in Economics and Commerce should apply to the Business Department for program recommendations.

Both universities recommend that such students take 2 years at Douglas College and enter university in their third year. Transfer credits have been arranged with these universities to cover the first 2 years of all Commerce and Economics programs.

**Douglas Four** — an exploration of the self and the environment — aims to strike a balance between structure and non-structure.

A basic framework is provided, from which perspectives on our culture and its effects on the individual may be gleaned. Topic areas include "Urban Environment," "Ecology," "A Comparative and Historical Analysis of our Culture," and "Personal Growth and Awareness." A syllabus of required and suggested readings, and a film series, will be presented. Changes in the latter can be effected by group consensus and initiative. Thus, a structured central core of information will be experienced by everyone, providing a basis from which the group and its members may further explore the main theme and topic area under consideration.

Students are expected to take the initiative in structuring academic pursuits, community projects, etc., to meet the curriculum requirements. The main theme was purposely designed to encompass individual interests and objectives.

Enrolment in **Douglas Four** is contingent on an interview. It offers 12 semester hours of general credit, which is transferable to SFU and UBC. Transferability: UBC 9 units unassigned general credit; SFU 9 unassigned general credits.

### Geology

Geology is the study of the evolution of planet earth. Considered are the origins and evolution of rocks and minerals, oceans, atmosphere and life, and their interactions.

Beginning students should enrol in Geology 43-100: "Discover the Earth." This is a core course to introduce the students to geology. The student has the option of considering this course terminal (equivalent of Geography 211-3 at SFU or 1½ unassigned geology credits at UBC). During the second semester, the student may take a single-semester biology course (advisable for potential elementary or primary school teachers), or the second semester Geology 43-210: "Our Changing Earth." The sequence 43-100 and 43-210 is the equivalent of Geology 105 at UBC. The sequence 43-100 and 25-110 is the equivalent of Geography 101 at UBC.

| SEMESTER I                 | SEMESTER II                   |
|----------------------------|-------------------------------|
| Physics 45-100 or 45-110   | Physics 45-200 or 45-210      |
| Chemistry 42-100 or 42-110 | Chemistry 42-200 or 42-210    |
| Mathematics 44-120         | Mathematics 44-220 and 44-131 |
| Geology 43-100 or 43-110   | Geology 43-210                |

During both semesters, any two of Communications 92-100; Literature 91-101 to 120; Theatre 95-100; Creative Writing 96-100 and 96-200.

### Mathematics

Many university departments require credits in mathematics at the first or second year level for admission to certain upper-division courses. Students are therefore urged to consult the appropriate calendars for details of specific mathematics requirements.

Students entering Douglas may pursue several possible routes, depending on their background and major field of interest:

1) Students with B.C. Mathematics 12 who wish to enter UBC to take mathematics, science, secondary education, applied science, or forestry, should take:

|                   |                   |
|-------------------|-------------------|
| Semester I .....  | 44-120            |
| Semester II ..... | 44-220 and 44-131 |

Some schools (such as commerce, medicine, dentistry, and nursing) require Mathematics 44-112 and 44-212 or Mathematics 44-120, 44-220 and 44-131 or Mathematics 44-212 and 44-140.

Mathematics or science majors should continue as follows:

|                    |                   |
|--------------------|-------------------|
| Semester III ..... | 44-320 and 44-231 |
| Semester IV .....  | 44-420 and 44-331 |

These courses also satisfy prerequisites at SFU and UVic.

SFU offers a one semester calculus course, Mathematics 150-3, which is required in some social sciences; the Douglas equivalent is 44-140.

2) Students with B.C. Mathematics 11 who require the above courses should take Mathematics 44-112, which is a prerequisite to the calculus (Math 44-120).

3) Students with less than B.C. Mathematics 11 should consider enrolling in Mathematics 44-101.

4) Students transferring to the Faculty of Commerce and Business Administration at UBC should, in addition to the courses listed in paragraph 1, take the following courses:

|                    |                    |
|--------------------|--------------------|
| Semester III ..... | Mathematics 44-350 |
| Semester IV .....  | Mathematics 44-450 |

### Music

Douglas College provides part of the training for students intending to become school music teachers. There are two routes:

For music majors, a full-time-music program is designed for transfer to music departments of various Canadian universities after two years at Douglas. The B.Mus. degree is completed at university and may be followed by faculty of education teaching training. At present, students are accepted at Douglas as majors in band, chorus, and string orchestra.

**Admission requirements:**

Wind instruments, percussion, and strings: grade 6 R.C.M.T. or equivalent level.

Vocal: grade 6 R.C.M.T. or equivalent level in voice. Pianists may be accepted as choral majors on establishing competence of minimum grade-6-level piano.

Students wishing to enter the B.Mus. (General) program should apply for an interview, auditions, and theory test before May 15. Test and interviews will be held on or about that date. Phone 521-4851.

Students commencing B.Mus. (General) program each September must have passed the theory test *and* instrumental audition held in May. Those failing the test will be required to enrol in summer school Basic Theory Music 12-100. Students failing this course may not enter the B. Mus. (General) program the following September.

Applicants failing the instrumental audition will be urged to take private lessons and reapply for the B.Mus. program the next year. Meantime, students may take a full program of electives.

For music education majors, those not wishing to enter the B.Mus. program are encouraged to consider enrolling in the B.Ed. pattern. This is particularly suitable for those intending to teach music in elementary schools. There are no instrumental prerequisites for admission. Students unable to read music must take Basic Theory Music 12-100 before registering for other music courses in the B.Ed. pattern. On completion of the two year program, students are eligible for transfer to a faculty of education which provides music education.

Teachers already employed but lacking complete coverage of courses required for the B.Ed. (music education major), are invited to consider enrolling as part-time students.

The College plans to offer evening courses in the B.Ed. pattern.

**Suggested program for music majors:**

**SEMESTER I**

| Course | Descriptive Title                        | Credit | Equivalent UBC Course  |
|--------|--|--------|------------------------|
| 12-105 | Ensemble — Band .....                    | 1      | Music 152 (1½ units)   |
| or     |  |        |                        |
| 12-106 | College Chorus .....                     | 1      | Music 153 (½ unit)     |
| 12-110 | Theory of Western Music .....            | 3      | Music 100 (1½ units)   |
| 12-120 | History of Western Music .....           | 3      | Music 120 (1 unit)     |
| 12-130 | Class Woodwinds .....                    | 2      |                        |
| or     |  |        |                        |
| 12-131 | Class Brass .....                        | 2      | Music 142 (1 unit)     |
| 12-140 | Piano (secondary) .....                  | 1      | Music 144 (½ unit)     |
| 12-150 | Music Concentration (instrumental) ..... | 2      | Music 145 (1 unit)     |
| or     |  |        |                        |
| 12-151 | Music Concentration (vocal) .....        | 2      |                        |
|        | Elective in English .....                | 3      | English 100 (1½ units) |
|        | Elective in Arts .....                   | 3      |                        |

**SEMESTER II**

|        |  |   |                         |
|--------|--|---|-------------------------|
| 12-130 | Class Woodwinds .....                    | 2 |                         |
| or     |  |   |                         |
| 12-131 | Class Brass .....                        | 2 |                         |
| 12-205 | Ensemble — Band .....                    | 1 |                         |
| or     |  |   |                         |
| 12-206 | College Chorus .....                     | 1 | Large Ensemble (½ unit) |
| 12-210 | Theory of Western Music .....            | 3 | Music 100 (1½ units)    |
| 12-220 | History of Western Music .....           | 3 | Music 120 (1½ units)    |
| 12-240 | Piano (secondary) .....                  | 1 | Music 144 (½ unit)      |
| 12-250 | Music Concentration (instrumental) ..... | 2 |                         |
| or     |  |   |                         |
| 12-251 | Music Concentration (vocal) .....        | 2 | Music 145 (1 unit)      |
|        | Elective in English .....                | 3 | English 100 (1½ units)  |
|        | Elective in Arts .....                   | 3 |                         |

**SEMESTER III**

|        |  |   |                         |
|--------|--|---|-------------------------|
| 12-132 | Class Percussion .....                   | 2 | Music 141 (1½ units)    |
| or     |  |   |                         |
| 12-230 | Advanced Class Woodwinds .....           | 2 | Music 142 (1 unit)      |
| 12-305 | Ensemble — Band .....                    | 1 |                         |
| or     |  |   |                         |
| 12-306 | College Chorus .....                     | 1 | Large Ensemble (½ unit) |
| 12-310 | Theory of Western Music .....            | 3 | Music 200 (1½ units)    |
| 12-320 | History of Western Music .....           | 3 | Music 320 (1½ units)    |
| 12-340 | Piano (secondary) .....                  | 1 | Music 244 (½ unit)      |
| 12-350 | Music Concentration (instrumental) ..... | 2 |                         |
| or     |  |   |                         |
| 12-351 | Music Concentration (vocal) .....        | 2 | Music 245 (1 unit)      |
|        | Elective in English .....                | 3 | English 200 (1½ units)  |
|        | Elective in Arts .....                   | 3 |                         |

**SEMESTER IV**

|        |  |   |                         |
|--------|--|---|-------------------------|
| 12-132 | Class Percussion .....                   | 2 | Music 141 (1½ units)    |
| or     |  |   |                         |
| 12-230 | Advanced Class Woodwinds .....           | 2 | Music 142 (1 unit)      |
| 12-405 | Ensemble — Band .....                    | 1 |                         |
| or     |  |   |                         |
| 12-406 | College Chorus .....                     | 1 | Large Ensemble (½ unit) |
| 12-410 | Theory of Western Music .....            | 3 | Music 200 (1½ units)    |
| 12-420 | History of Western Music .....           | 3 | Music 320 (1½ units)    |
| 12-440 | Piano (secondary) .....                  | 1 | Music 244 (½ unit)      |
| 12-450 | Music Concentration (instrumental) ..... | 2 |                         |
| or     |  |   |                         |
| 12-451 | Music Concentration (vocal) .....        | 2 | Music 245 (1 unit)      |
|        | Elective in English .....                | 3 | English 200             |
|        | Elective in Arts .....                   | 3 |                         |

**Suggested Program for music education majors:**

|        |                                |   |                     |
|--------|--------------------------------|---|---------------------|
| 12-100 | Basic Theory .....             | 3 | Music Ed. 101       |
| 12-130 | Class Woodwinds .....          | 2 | Music 142 (2 units) |
| 12-131 | Class Brass .....              | 2 | Music 141 (2 units) |
| 12-132 | Class Percussion .....         | 2 |                     |
| 12-200 | Basic Harmony .....            | 3 |                     |
| 12-230 | Advanced Class Woodwinds ..... | 2 |                     |
| 12-320 | History of Western Music ..... | 3 | Music 320 (3 units) |
| 12-420 | History of Western Music ..... | 3 |                     |

Music education majors should spread music courses over two years, paying special attention to requirements of B.Ed. transfer students at the appropriate university. Students transferring to elementary education at UBC must transfer after *one* year at Douglas.

**SFU transfer courses:**

The following courses are transferable to SFU as general elective credit: Music 12-102, 12-120, 12-202, 12-220, 12-320, 12-420.

**Physics**

Students wishing to either major or honor in physics should consult the calendar of the university which they plan to attend after leaving Douglas, to determine the exact prerequisites for physics, mathematics, and chemistry.

For either a major or an honor in physics, courses selected during the first and second semesters should include:

Physics 45-100 and 45-200 or Physics 45-110 and 45-210  
 Chemistry 42-100 and 42-200 or Chemistry 42-110 and 42-210  
 Mathematics 44-120, 44-220 and 44-131

In the third and fourth semesters, the selected courses should include:

Physics 45-320, 45-321, 45-420, and 45-421  
 Mathematics 44-320, 44-420, 44-231, and 44-331

Those intending to honor in physics at UBC are advised to transfer after completing two semesters at Douglas. Those intending to go to SFU can complete their first two years at Douglas except for a one semester course: SFU Physics 206-2, Thermodynamics, and Modern Physics.

**Physical Education.**

Douglas College offers a two year university transfer program which prepares students for entry into third year of the Bachelor of Physical Education and Bachelor of Education (secondary) programs at UBC. Students wishing to transfer into a Bachelor of Recreational Education program, or a Bachelor of Education (elementary) program at university, should transfer after one year at Douglas.

Students planning to apply for transfer to UBC should observe the following regulations:

- 1) Students applying for admission to the B.R.E. program may present a maximum of four credits in physical education activities;
- 2) Students in either B.P.E. or B.Ed. (P.E. major) may present a maximum of 19 credits in physical education courses if taken over four semesters;
- 3) Students planning to take only two semesters should select the courses to conform as closely as possible to requirements as indicated in the UBC calendar for the first year.

SFU offers a degree program in kinesiology but not in physical education or recreation.

Course requirements for these programs at Douglas are indicated in the accompanying graph. The numbers indicate the semester(s) in which the courses listed at the left should be taken.

**Notes:**

- 1) First and second semester English requirements for B.P.E., B.R.E., and B.Ed. are: any two of Communication 92-100, Creative Writing 96-100, 96-200, Literature 91-101 to 91-120, Theatre 95-100;
- 2) Third and fourth semester English requirements for B.P.E. (option A) and B.Ed. (secondary) program: any two of Literature 91-314, 315, 316, 317, 319;
- 3) Physical Education 64-113 must be included unless written permission to substitute another course has been obtained from the School of Physical Education at UBC;
- 4) First and second semester physical education activity course requirements for B.Ed. (elementary): four courses from 64-113, 64-119 or 64-120, 64-118; one from 64-112, 64-114, 64-115, 64-121 or 64-122; one from 64-110, 64-111, 64-116 or 64-210;
- 5) Required activity courses for all students in the B. Ed. (secondary) program: 64-113, 64-118, 64-119 or 64-120; one of 64-111 or 64-116; one of 64-112, 64-114, 64-115 or 64-121;



6) Required activity courses for all students in the B.P.E. program: 64-110, 64-113, 64-117, 64-118, 64-119 or 64-120; one of 64-111 or 64-116; one of 64-112, 64-114, 64-115, 64-121 or 64-122;

7) Students in the B.P.E. program select a second area of concentration consisting of a minimum of 12 semester credits from either the Faculty of Arts or the Faculty of Science at UBC or equivalent Douglas College courses;

8) First and second semester electives for the B.R.E. program: Sociology 23-125 and 23-135; or any two courses transferable to UBC.

| Required in  | SEMESTER        |                 |        |              |             |
|--|-----------------|-----------------|--------|--------------|-------------|
|  | B.P.E. Option A | B.P.E. Option B | B.R.E. | B.Ed. (elem) | B.Ed. (sec) |
| <b>Course description</b>  |                 |                 |        |              |             |
| Art 11-120 and 11-121 .....  | 6               |                 |        | 1-2          |             |
| Biology 41-110 and 41-111 .....  | 6               | 1-2             | 3-4    | 1-2          |             |
| Chemistry 42-100 or 42-110 and 42-200 or 42-210 .....                  | 6               |                 | 1-2    |              |             |
| Chemistry 42-320 or Psychology 28-300 .....                            | 3               |                 | 3      |              |             |
| Chemistry 42-420 or Psychology 28-400 .....                            | 3               |                 | 4      |              |             |
| First-level English (see Note 1) .....                                 | 6               | 1-2             | 1-2    | 1-2          | 1-2         |
| Second-level English (see Note 2) .....                                | 6               | 3-4             |        | 3-4          |             |
| Mathematics 44-120 .....   | 3               |                 | 1      |              |             |
| Mathematics 44-131 and 44-220 .....                                    | 5               |                 | 2      |              |             |
| Music 12-100 or 12-320, or any course from arts or science .....       | 3               |                 |        |              | 1           |
| Music 12-200 or 12-320, or any course from arts or science .....       | 3               |                 |        |              | 2           |
| 2 P.E. activities (see note 3) .....                                   | 4               |                 | 1-2    |              |             |
| 4 P.E. activities (see note 4) .....                                   | 8               |                 |        |              | 1-2         |
| 6 P.E. activities (see note 5) .....                                   | 12              |                 |        | 1-2          |             |
| 8 P.E. activities (see note 6) .....                                   | 16              | 1-2             | 1-2    | 3-4          |             |
| P.E. 64-350 .....  | 3               | 3-4             | 3-4    |              | 4           |
| P.E. 64-360 .....  | 3               | 4               | 4      |              | 3           |
| Physics 45-100 or 45-110 and Psychology 28-200 .....                   | 6               |                 | 1-3    |              |             |
| Physics 45-200 or 45-210 and Psychology 28-200 .....                   | 6               |                 | 2-4    |              |             |
| Psychology 28-100 and 28-200 .....                                     | 6               | 3-4             | 1-2    |              |             |
| 4 electives from arts or science .....                                 | 12              | 1-2             |        |              |             |
| 1 elective from arts or science .....                                  | 3               |                 | 4      |              |             |
| 2 electives from lab science .....                                     | 6               |                 |        |              | 1-2         |
| 2 electives from history, geography or social science .....            | 6               |                 |        |              | 1-2         |
| 4 electives (see note 7) .....   | 12              | 3-4             |        |              |             |
| 2 electives (see note 8) .....   | 6               |                 | 1-2    |              |             |
| Electives and courses required for second academic concentration ..... | 18              |                 |        |              | 1-2         |
| Electives and courses required for second academic concentration ..... | 12              |                 |        |              | 3-4         |

## PROPOSED PROGRAMS AND COURSES

The following are descriptions of new programs and courses currently under consideration by the College. For further information contact the Admissions office, department concerned, or a counsellor.

### PROGRAMS:

#### Canadian Studies Program

The Canadian Studies Program is designed to intimately acquaint you with Canada through in-depth study of its historical and cultural roots and of the realities of Canada today.

Designed to permit transfer to university, if desired, the program involves multi-disciplinary, inter-disciplinary and individual study and research. Students can opt out of the program at any time and pursue other avenues of study.

Students interested in transferring to university should, of course, consult the Student Development Centre at the College to ensure that their program at Douglas will permit transfer to the university of their choice.

A number of "suggested" courses are listed below. Consult the College calendar and/or the Student Development Centre for descriptions of each course.

#### Nursing

Douglas College is developing a nursing program leading to the two-year diploma of Associate in Arts (A.A.) and the Registered Nurse (R.N.) designation, integrating the field of Psychiatric Nursing. The target date for accepting the first class is September 1974. Clinical work is expected to be arranged with the many hospitals in the College region. The feasibility of offering a part-time, four-year evening program is also being investigated. Applications for admission will not be entertained until the spring of 1974.

#### Women's Studies

In a number of major educational institutions, there is trend towards inclusion of programs of Women's Studies in their curricular offerings. Such an area of study has been in the planning stage at Douglas for some time, and is expected to be instituted this fall.

The general purposes of this area of study are:

- 1) To help student develop an awareness of the general concerns of women historically and today;

- 2) To develop an awareness of the psychological, sociological and economic factors which contribute to women's role in the contemporary society;

- 3) To promote an appreciation of the contributions of women in various fields.

Courses will be offered in the areas of: Psychology, Sociology, Literature, Human Development, Vocational Exploration. Courses may be taken separately or in a package. All courses will have College credit, and some will have University transfer credit.

For detailed information, please contact the Director of Continuing Education, or the Student Development Centres.

### COURSES:

#### Chemistry

This course is designed for students with no chemistry or a poor Grade XI Chemistry background. On successful completion of this course the student may enter Chemistry 100, where he will meet students with a Grade XI and XII Chemistry background. The course will prove to be valuable to students who have been away from school for some time, as it will afford an opportunity for discussing the language of Chemistry, basic concepts and related experiments. It is anticipated that students who successfully complete this course will be better equipped to take Chemistry 100 and 200. It is recommended that Math. 101 be taken concurrently.

Possible texts for this course could be *Chemistry and the Environment* and the accompanying laboratory manual.

#### Mathematics

An introduction to computers, problem analysis, flow charting, and the computer language PL/1. The techniques will be presented by means of examples and students will solve problems using the College's terminal.

#### Fall Semester

Prerequisite: Math 11 or permission of instructor.

Lecture: 1 Laboratory: 3

Transferability:

UBC Unassigned credit in Faculty of Science

SFU Unassigned credit in Faculty of Science

#### Women's Studies

A university transfer course of Canadian women's history against a broader background of social, intellectual and cultural history.

## COURSE DESCRIPTIONS

(NOTE: starred (\*) courses have prerequisites and/or corequisites.)

### ACCOUNTING

#### 81-100 Introduction to Accounting

3 credits

A study of the theory and practice of accounting at an introductory level. The emphasis in this study is more on understanding and using accounting information than in developing skills in the preparation of accounting information.

Spring and fall semesters.

Prerequisites: None

Lecture: 3 Seminar: 1

No transfer credit

#### 81-110 Principles of Accounting

3 credits

Theory and practice of recording and reporting financial events for service and merchandising businesses, with legal distinctions between proprietorship, partnership, and a limited company.

Fall semester.

Prerequisite: None

Lecture: 3 Seminar: 1

Transferability:

With 81-210

UBC Commerce 151 and 1½ units unassigned credit in Accounting

SFU 323-5 and 1 unassigned credit in Accounting

CGA 101

SIA Principles of Accounting

#### 81-210\* Principles of Accounting

3 credits

Theory and practice of appraising business events in light of previous planning, and safeguarding rights and possessions of a business by means of the accounting process. Analysis of financial statements and appraisal of some basic accounting theory, with a brief consideration of the manufacturing process.

Spring semester.

Prerequisite: 81-110

Lecture: 3 Laboratory: 1

Transferability:

With 81-110

UBC Commerce 151 and 1½ units unassigned credit in Accounting

SFU 323-5 and 1 unassigned credit in Accounting

CGA 101

SIA Principles of Accounting

#### 81-240\* Electronic Data Processing (Accounting)

3 credits

An examination of the function of the digital computer within the information system of the firm and its relationship with the Accounting Department. The course deals with computer programming in both BASIC and COBOL languages, and reviews the computer's basic machinery.

Fall semester.  
Prerequisite: 81-110 and current enrolment in 81-210  
Lecture: 4  
Transferability:  
With 81-440  
CGA 205  
SIA Data Processing Equipment and Programming

**81-310\* Accounting Theory 3 credits**

The more complex accounting techniques and principles at the intermediate level relating to determination of the financial position of business.

Fall semester.  
Prerequisite: 81-210  
Lecture: 4  
Transferability:  
With 81-410  
CGA 221  
SIA Accounting Theory and Problems

**81-320\* Cost Accounting 3 credits**

Principles and practice of essential records and methods of arriving at materials, labor, and manufacturing expense costing. Job, process, and standard costing. Budgeting, distribution, and differential costing.

Fall semester.  
Prerequisite: 81-210  
Lecture: 4  
Transferability:  
With 81-420  
SIA Accounting for Cost Determination Analysis and Control

**81-410\* Accounting Theory 3 credits**

The more complex accounting techniques and principles at the level relating to measurement of net income.

Spring semester.  
Prerequisite: 81-310  
Lecture: 4  
Transferability:  
With 81-310  
CGA 221  
SIA Accounting Theory and Problems

**81-420\* Cost Accounting 3 credits**

An examination of non-manufacturing costs, capital budgeting, inventory costing, and the costs of service departments. Joint products and by-products also considered, together with process costing.

Spring semester.  
Prerequisite: 81-320  
Lecture: 4  
Transferability:  
With 81-320  
SIA Accounting for Cost Determination, Analysis and Control

**81-440\* Information Systems (Accounting) 3 credits**

The application of data processing principles in business, with emphasis on accounting applications. Various systems involving magnetic tape and disk storage devices examined. Introduction to controls and data processing management.

Spring semester.  
Prerequisite: 81-240  
Lecture: 4  
Transferability:  
With 81-240  
CGA 205  
SIA Data Processing Equipment and Programming

**ANTHROPOLOGY**

Anthropology is the study of man, emphasizing a cross-cultural and comparative approach. The discipline attempts to trace the physical evolution of man and the development of culture, to study cultural traits as they occur in diverse societies, and to provide in-depth studies of specific cultures.

Students wishing to major in anthropology, particularly those intending to transfer to U.B.C., are advised to take Anthropology 24-100 and 24-110. These are survey courses designed to cover the range of the discipline. When both are taken, this is considered equivalent to U.B.C.'s prerequisite course, Anthropology 200.

Students transferring to U.B.C. are permitted to take two courses in anthropology in addition to 24-100 and 24-110 for credit within the Department of Anthropology and Sociology. If further courses are taken, they are transferable to the university, but not within the department.

Students transferring to Simon Fraser University are also advised to take 24-100 and 24-110. Note, however, that anthropology and archaeology are divided at that institution. Douglas courses 24-100, 120, 130 and 140 transfer to the PSA Department, while 24-110 and 190 transfer to the Department of Archaeology.

All courses are transferable to the University of Victoria, following the same rules as those developed for transfer to U.B.C.

All courses, with the exception of 24-190 will normally be given each semester, although not necessarily on each campus. Anthropology 24-190 is a field course in archaeology, to be given only occasionally and only in the summer.

**24-100 Social and Cultural Anthropology 3 credits**

Covers basic concepts, man and culture, race, institutions.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC with 24-110 Anthropology 200 (3 units)  
SFU PSA 172 (3 credits)

**24-110 Physical Anthropology and Archaeology 3 credits**

An introduction to the aims, methods, and discoveries of physical anthropology and archaeology through a study of human evolution and the development of cultures and institutions.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 4  
Transferability:  
UBC with 24-100 Anthropology 200 (3 units)  
SFU Archaeology 272 (3 credits)

**24-120 The Indians of B.C. 3 credits**

A study of the native inhabitants of B.C. from the time of historic contact. Emphasizes the traditional society, particularly its art form, and certain problems of contemporary Indian society.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC 1½ units unassigned credit in Anthropology  
SFU 3 unassigned credits in PSA Dept.

**24-130 The Anthropology of Religion 3 credits**

An introduction to a comparative study of religious institutions, focusing on selected ethnographic examples. Considers the role of religion in society and various anthropological approaches to the study of religion.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC 1½ units unassigned credit in Anthropology  
SFU 3 unassigned credits in PSA Dept.

**24-140 Culture and the Environment (formerly 24-200) 3 credits**

An ecological approach to social organization and structure. Influence of the environment on kinship and religious, political, and economic systems.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Tutorial: 2  
Transferability:  
UBC 1½ units unassigned credits in Anthropology  
SFU 3 unassigned credits in PSA Dept.

**24-190 Archaeological Field Studies 3 credits**

A field course in archaeology, held only in summer. Emphasizes techniques of archaeological excavation, but some time devoted to archaeological theory and the broad pattern of B.C. prehistory.

Prerequisite: None  
Field experience: 35 hours (for approximately 6 weeks)  
Transferability:  
UBC 1½ units unassigned credit in Anthropology  
SFU 3 unassigned credits in Archaeology

**24-191\* Anthropological Field Studies 3 credits**

A field course in cultural anthropology. The course is designed to introduce students to the culture and environment of a selected area, its geography, past and present populations, and the general ecology of the area.

Summer semester.  
Prerequisite: 24-100 or 24-120 or 24-200  
No transfer credit

**24-210\* New World Prehistory 3 credits**

An application of the principles and concepts of archaeology to a survey of prehistoric New World cultures, with particular emphasis on western and northern North America.

Spring, fall and summer semesters.  
Prerequisite: 24-110  
Lecture: 2 x 2  
Transferability:  
UBC 1½ units unassigned credit in Anthropology  
SFU Archaeology 273 (3 credits)

**ART****Transfer Information**

Students wishing to continue studies in fine arts at UBC will be asked to submit folios showing type of background acquired. They will then be fitted into UBC's program on an individual basis. In any event, such students should be aware of the extremely limited intake at the UBC department. Transfer depends on acceptance of student's portfolio and successful completion of the following courses at Douglas:

| Douglas College Courses   | UBC Courses   |
|---|---|
| Art 11-100, 11-110, 11-130, 11-131, 11-140, 11-141, 11-142, 11-161, (any two)                 | Fine Arts 181 (3 units)<br>Fine Arts 125 (3 units)            |
| Art 11-120, 11-121  |   |
| Art 11-200, 11-210, 11-230, 11-260, 11-310, 11-330, 11-400, 11-410, 11-411, 11-430 (any four) | Fine Arts 281 (6 units)<br>Fine Arts (1½ units)<br>unassigned |
| Art 11-122  | To be determined  |
| Art 11-300, 11-311  |   |

The following courses are transferable to SFU as unassigned credit: 11-120, 11-121, 11-122, 11-222.

More information on transferability of Douglas courses to UBC may be found in the course descriptions section of this Calendar, under ART.



- 11-100 Fundamental Drawing** 3 credits  
An introduction to drawing in all common media, both wet and dry. Includes still-life drawing and basic human anatomy, and is a requirement of all first-year students in the art transfer and painting or craft diploma programs. It is a prerequisite for other courses in drawing and painting. May be taken as an elective.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Laboratory: 6  
NOTE: Art 11-100 has been split into two courses, 11-101 and 11-102, each worth 1½ credits. These two courses may be taken in either order.
- 11-101 Fundamental Figure Drawing** 1½ credits  
An introduction to drawing the figure in all wet and dry media.  
Fall semester.  
Prerequisite: None  
Laboratory: 3
- 11-102 Fundamentals of Still-Life Drawing** 1½ credits  
An introduction to drawing inanimate objects and landscapes, using a variety of wet and dry media.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Laboratory: 3
- 11-110\* Fundamental Painting** 3 credits  
An introduction to basic media and methods, including water color, gouache, oil and acrylic paint; and various grounds such as canvas, board, paper, etc. Also introduces pictorial composition. Required of all first-year students in art transfer and painting or craft diploma programs, and is a prerequisite for sequential painting courses.  
Fall semester or on sufficient demand.  
Prerequisite or Corequisite: 11-100  
Laboratory: 6
- 11-113 Watercolor, Transparent and Opaque** 1 credit  
An introduction to basic techniques in the acrylic polymer medium. Also introduces pictorial composition.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Laboratory: 3
- 11-114 Acrylics, The Plastic Paint** 1 credit  
An introduction to techniques in the acrylic polymer medium. Also introduces pictorial composition.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Laboratory: 3
- 11-115 The Medium of Oils** 1 credit  
An introduction to oil painting techniques and pictorial composition.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Laboratory: 3
- 11-120 History of Western Art to 1600** 3 credits  
Provides broad general knowledge and understanding of the history of man as seen through his artistic production from cave art to the Renaissance.  
Fall semester.  
Prerequisite: None  
Lecture: 3
- 11-121 History of Western Art: 1600 to 20th century** 3 credits  
Provides broad general knowledge and understanding of the history of man as seen through artistic production.  
Spring semester.  
Prerequisite: None  
Lecture: 3
- 11-122 History of Western Art: 1900 to 1945 (formerly 11-320)** 3 credits  
A look at some rapidly-changing 20th-century art forms, with special reference to principal movements and their exponents.  
Fall semester.  
Prerequisite: None  
Lecture: 4  
Transferability:  
UBC 1½ unassigned units in Art  
SFU 3 unassigned credits
- 11-130 Ceramics and Ceramic Sculpture** 2 credits  
Clay explored as an expressive medium for utilitarian and decorative ends. Familiarization with studio tools and equipment, their use and care. Covers techniques of hand construction and wheel-work applicable to sculpture and pottery, as well as various glazing and decorating methods. Assignments directed to individual and class needs. Philosophic enquiries made into the inter-relationship of esthetics and function, and the implication of this art experience in terms of our contemporary world. Some assigned reading.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Lecture: ½ Laboratory: ½
- 11-131 Figure Sculpture** 3 credits  
The use of various sculpture media (including clay and plaster) explored to provide student with skills and insights in conception and creation of

three-dimensional art.

Fall semester.  
Prerequisite: None  
Laboratory: 1 x 2, 1 x 3 Lecture: 1

- 11-132 Figure Sculpture** 1½ credits  
The student will learn the basic use of various sculpture media (including clay and plaster) explored to provide student with skills and insights in conception and creation of three-dimensional art.  
Offered on sufficient demand.  
Prerequisite: None  
Lecture: 1 Laboratory: 1 x 2  
Transferability:  
UBC Unassigned credit in the Dept. of Fine Arts — Transferable only to the Faculty of Arts at UBC.

- 11-133 Figure Sculpture** 1½ credits  
A continuation of learning the use of various sculpture media (including clay and plaster) explored to provide student with skills and insight in conception and creation of three-dimensional art.  
Offered on sufficient demand.  
Prerequisite: None  
Lecture: 1 Laboratory: 1 x 2  
Transferability:  
Unassigned credit in the Dept. of Fine Arts — Transferable only to the Faculty of Art of UBC. Cannot be used as a general art elective.

- 11-134 Glaze Calculation** 2 credits  
Explores the use of empirical atomic theory in the calculation of ceramic glazes. Many types of glazes developed at a variety of temperature ranges.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Laboratory: 2 Lecture: 1  
No transfer credit

- 11-140 Relief Printmaking** 1 credit  
Printmaking explored as an expressive medium, commencing with an introduction to materials, studio, tools, and equipment. Some techniques of relief printing. Assignments directed to individual and class needs.  
Fall semester  
Prerequisite: None  
Laboratory: 3 x 1

- 11-141 Art-Silk Screen Techniques** 1 credit  
Silk screen explored as an expressive medium, commencing with tools and equipment. Basic and intermediate techniques covered by assignments directed to individual and class needs.  
Fall semester.  
Prerequisite: None  
Laboratory: 3 x 1

- 11-142 Intaglio Printmaking** 1 credit  
Explores the area of metal plate printing and techniques in drypoint, engraving, and etching. Use of specialized equipment covered throughout term. Assignments directed to individual and class needs.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Laboratory: 3

- 11-150 Communication Drawing** 2 credits  
Course teaches basic essential technical skills which should be mastered to enable one to work in a number of design and fine arts fields. The student becomes experienced in the use of basic drawing instruments to work with precision. He will be better equipped to work out his designs in form and detail, and ultimately to make detailed production drawings. He will be able to lay out designs prior to fabrication when working in three dimensions, and will have at hand a valuable method of communication.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Lecture: ½ Laboratory: 2½  
No transfer credit

- 11-160 Fundamental Design Theory** 2 credits  
Familiarization with fundamental principles of design, with emphasis on their controlled application. Materials introduced as elements of design. Assignments made according to individual and class needs. Some assigned reading.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Lecture: ½ Laboratory: 2½

- 11-161 Foundations of Design** 3 credits  
Basic instruction in techniques of composition, using principles of design such as balance, harmony, and basic color use. Designs and projects related to natural forms and shapes. Students relate their work to themselves and their present experiences and environment.  
Fall semester.  
Prerequisite: None  
Laboratory: 1 x 5 Lecture: 1 x 1

- 11-170 Introduction to Weaving** 2 credits  
Fundamental forms of weaving, with a combination of traditional and contemporary forms of the craft. Student pursues projects and techniques using a variety of simple and basic looms.  
Spring and fall semesters or on sufficient demand.  
Prerequisite: None  
Laboratory: 2 Lecture: 1  
No transfer credit

**11-171 Introduction to Fabric Arts** 2 credits

Introduces structural techniques such as knotting and felting, and non-structural or enriching methods such as printing, batik, tie-dyeing, and applique. Emphasis on technique and proper use of equipment.

Offered on sufficient demand.

Prerequisite: None

Laboratory: 2 Lecture: 1

No transfer credit

**11-200\* Basic Drawing** 3 credits

Course provides an opportunity for further experiment in drawing in all common media, both wet and dry. Includes object drawing, life drawing, and a further study of basic human anatomy.

Spring semester or on sufficient demand.

Prerequisite: 11-100

Laboratory: 6

**11-210\* Basic Painting** 3 credits

Further exploration of all common media, including gouache, oil and acrylic paint on various grounds. Student is enabled to expand his knowledge of pictorial composition.

Spring semester or on sufficient demand.

Prerequisite: 11-110

Laboratory: 6

**11-222 History of Western Art: 1945 to Present (formerly 11-420)** 3 credits

Twentieth century art forms examined, with special reference to principal movements and their exponents.

Spring semester.

Prerequisite: 11-122

Lecture: 4

Transferability:

SFU 3 unassigned credits

**11-230\* Ceramics** 1 credit

Clay is further explored as an expressive medium for utilitarian and decorative ends. More defined techniques of hand construction and wheel-work covered as applicable. Glazing and decorating procedures are also discussed.

Spring and fall semesters or on sufficient demand.

Prerequisite: 11-121

Lecture: ½ Laboratory: ½

**11-231\* Figure Sculpture** 3 credits

A course in clay modelling, principally from the human figure. Casting techniques will be included to provide the student with skills and insights in the conception and creation of three-dimensional art.

Spring semester.

Prerequisite: 11-131

Laboratory: 2 x 3

No transfer credit

**11-250\* Design and Model Making** 1 credit

The student gains experience using essential technical skills necessary for working in a number of design and fine arts fields. He is introduced to design analysis and planned stage development; he resolves and lays out a design prior to fabrication, and works with certain materials on projects which develop his design appreciation and crafting skills. Three-dimensional design is introduced.

Spring and fall semesters or on sufficient demand.

Prerequisite: 11-150

Lecture: ½ Laboratory: 2½

No transfer credit

**11-260\* Fundamental Color Design Theory** 1 credit

Students learn common and useful color theories by emphasizing controlled application, color identification, and color characteristics.

Spring and fall semesters or on sufficient demand.

Prerequisite: 11-160

Lecture: 1 Laboratory: 2

**11-261\* Foundations of Design** 3 credits

Course is concerned with further rediscovery and development of capacities for constant lively perception through study and use of the visual structure of objects and materials; also the application of design principles applied to them.

Spring and fall semesters or on sufficient demand.

Prerequisite: 11-161

Laboratory: 5 Lecture: 1

No transfer credit

**11-300\* Intermediate Drawing** 3 credits

A further experiment in drawing in all common media, both wet and dry. Course includes object drawing, life drawing, and continued study of basic human anatomy.

Fall semester or on sufficient demand.

Prerequisite: 11-200

Laboratory: 2 x 3

**11-310\* Intermediate Painting** 3 credits

A further exploration of all common media, including gouache, oil and acrylic paint on various grounds. Enables student to expand his knowledge of pictorial composition.

Fall semester or on sufficient demand.

Prerequisite: 11-210

Laboratory: 6

**11-311\* Explorations in Contemporary Media** 3 credits

Creative media in use today, with an examination of two- and three-dimensional forms through use of materials.

Offered on sufficient demand.

Prerequisite: 11-131 or 11-161

Laboratory: 6

No transfer credit

**11-330\* Intermediate Ceramic Techniques** 2 credits

A continuation of the exploration of ceramic techniques, materials, and design in greater depth.

Spring and fall semesters or on sufficient demand.

Prerequisite: 11-230

Lecture: ½ Laboratory: 2½

**11-400\* Advanced Drawing** 3 credits

A further experience in drawing in all common media, both wet and dry. Includes object drawing, life drawing, and continued study of basic human anatomy.

Spring semester or on sufficient demand.

Prerequisite: 11-300

Laboratory: 6

**11-410\* Advanced Painting** 3 credits

Further exploration of all common media, including gouache, oil and acrylic paint on various grounds. Enables student to expand his knowledge of pictorial composition.

Spring semester or on sufficient demand.

Prerequisite: 11-310

Laboratory: 6

**11-411\* Explorations in Contemporary Media** 3 credits

Creative media in use today, with an examination of two- and three-dimensional forms through use of these materials.

Spring and fall semesters or on sufficient demand.

Prerequisite: 11-311

Laboratory: 6

**11-430\* Advanced Ceramics** 2 credits

A continuation of the exploration of ceramic techniques, materials, and design in greater depth.

Spring and fall semesters or on sufficient demand.

Prerequisite: 11-330

Lecture: ½ Laboratory: 2½

**BIOLOGY**

*The biology laboratory is operated on an open audio-tutorial system. The student taking a biology course should plan to spend four hours a week in the laboratory, but not necessarily at one time. The student may spend one hour at a time in the laboratory to complete his requirement. When time-tabling, students should see that this time is made available.*

Students intending to transfer to a major or honors program in biology should take the following courses in first year:

| SEMESTER I                 | SEMESTER II                   |
|----------------------------|-------------------------------|
| Biology 41-110 or 41-111   | Biology 41-110 or 41-111      |
| Chemistry 42-100 or 42-110 | Chemistry 42-200 or 42-210    |
| Mathematics 44-120         | Mathematics 44-220 and 44-131 |
| Physics 45-100 or 45-110   | Physics 45-200 or 45-210      |

In each semester, any two of Literature 91-101 to 91-120; Communications 92-100; Theatre 95-100; Creative Writing 96-100, 200.

Biology 110 or 111 may be taken in any order. A student with good standing in Biology 11 or 12 may be exempted from the two courses above with permission of a biology instructor. Exemption will be granted only to those students who take an advanced biology course.

| SEMESTER III     | SEMESTER IV      |
|------------------|------------------|
| Chemistry 42-320 | Chemistry 42-420 |

Students may take in any sequence, subject to the courses being offered, Biology 41-320, 321, 322, and 323. Students intending to transfer to third year at SFU or UBC with a biology major are advised to take at least two and preferably all of the above courses along with enough electives to accumulate 60 semester credits.

In addition, Biology 41-100 and 41-101 are offered to students requiring two semesters of a laboratory science.

Students who require biology as a prerequisite to a professional school should consult the appropriate school's calendar or a counsellor.

**41-100 Contemporary Problems in Biology: The Environmental Crisis** 3 credits

A study of biological problems arising from the interaction of man with his environment.

Offered on sufficient demand.

Prerequisite: None

Laboratory: 4 Seminar: 2

Transferability:

UBC Biology 311 1½ units (not for credit in Life Science departments)  
SFU Biology 003

**41-101 Great Experiments in Biology** 3 credits

An examination of the conditions of the science at the time of discovery, and the impact of discoveries on biological study. Designed for non-Life Science majors and for those wishing to complete a lab science requirement in biology.



Offered on sufficient demand.

Prerequisite: None

Laboratory: 4 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Biology (not for credit in Life Science)

SFU 3 unassigned credits in Biology

**41-110 Principles of Biology: The Biosphere 3 credits**

A study of life from the interaction of living organisms with one another and their physical environment to the anatomy and physiology of the individual.

Spring and fall semesters.

Prerequisite: None

Laboratory: 4 Seminar: 2

Transferability:

UBC with 41-111 Biology 101 or 102

SFU Biology 102

**41-111 Principles of Biology: The Organism 3 credits**

A study of life from the development of individual organisms to the structure and function of the cell.

Spring and fall semesters.

Prerequisite: None

Laboratory: 4 Seminar: 2

Transferability:

UBC with 41-110 Biology 101 or 102

SFU Biology 101

**41-320\* Genetics 3 credits**

The principles of heredity: transmission, exchange, mutation, and functioning of genetic material.

Offered on sufficient demand.

Prerequisites: 41-110 and 41-111, or permission of instructor

Laboratory: 4 Seminar: 2

Transferability:

UBC Biology 334

SFU Biology 202

**41-321\* Cell Biology 3 credits**

A study of the ultrastructure and biochemistry of the cell.

Offered on sufficient demand.

Prerequisites: 41-110 and 41-111, or permission of instructor

Laboratory: 4 Seminar: 2

Transferability:

UBC Biology 200

SFU Biology 201

**41-322\* Ecology 3 credits**

A study of the interactions of organisms and their environment.

Fall semester alternate years.

Prerequisites: 41-110 and 41-111, or permission of instructor

Laboratory: 4 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Biology

SFU Biology 204

**41-323\* Developmental Biology 3 credits**

A study of the processes of growth and development in plants and animals. Includes life cycles of organisms, processes in early development in plants and animals, regeneration, and the evolutionary aspects of development.

Offered on sufficient demand.

Prerequisites: 41-110 and 41-111, or permission of instructor

Laboratory: 4 Seminar: 2

Transferability:

UBC Zoology 204

SFU Biology 203

## BUSINESS

**86-100 Introduction to Business 3 credits**

A survey of the Canadian business scene: classification of business organizations and functional structures such as management, administration, personnel, production, marketing. Much of this first-semester course is devoted to human relations in business.

Fall and spring semesters.

Prerequisite: None

Lecture: 3 Seminar: 1

No transfer credit

**86-105\* Basic Business Finance 3 credits**

The function of finance in business: management of assets and the need for funds, analysis of past financing and future funding needs, short-term and long-term fund analysis and decision-making. Course involves student participation of an analytical and evaluative nature.

Offered on sufficient demand.

Prerequisite: 81-100

Lecture: 4

No transfer credit

**86-106 Personal and Consumer Finance 3 credits**

An introduction to planning and decision-making techniques to serve short-term and long-term personal financial objectives. Emphasis on budgeting, effective use of credit, insurance, investments, estate planning, and methods of pertinent financial calculations.

Offered on sufficient demand.

Prerequisite: None

Lecture: 4

No transfer credit

**86-109 Supervisory Management 3 credits**

Designed to give both first-level and second-level supervisors in industry, commerce, and social agencies a broader understanding of the theory and practice of fundamentals of supervision, and the supervisor's responsibilities as a leader, implementer of ideas, co-worker, subordinate, and mediator.

Offered on sufficient demand.

Prerequisite: None

Lecture: 4

No transfer credit

**86-110\* Introduction to Management 3 credits**

Managerial principles and methods: allocation of priorities to firm's objectives and responsibilities; framing of policy; tasks of planning, organizing, staffing and controlling work of others to achieve objectives. Particular attention given to quantitative methods as managerial tools.

Fall and spring semesters.

Prerequisite: Credit in three semester hours of business courses, or by permission of instructor

Lecture: 3 Seminar: 1

No transfer credit

**86-111 Small Business Management 3 credits**

For the individual facing problems of running a business and of filling roles of office manager, stock-keeper, salesman, and personnel manager. Examines day-to-day administration and over-all organization of the business entity (proprietorship, partnership, limited company).

Offered on sufficient demand.

Prerequisite: None

Lecture: 4

No transfer credit

**86-112 Business Procedures for Interior Design 3 credits**

A course which examines cost and time controls and procedures used in the Interior Design industry.

Offered on sufficient demand.

Prerequisite: None

Lecture: 2 Seminar: 2

No transfer credit

**86-120 Business Law 3 credits**

A general review of the meaning, sources, and administration of commercial law, plus a more detailed examination of the law of contract with particular reference to business situations.

Fall and spring semesters.

Prerequisite: None

Lecture: 2 x 2 Seminar: 2 x 1

Transferability:

With 86-220

CGA 108

SIA Commercial Law

**86-130\* Business Mathematics 3 credits**

Basic computation and algebra. Mathematics of finance: interest, discounts, annuities, elementary probability theory.

Fall and spring semesters.

Prerequisite: B.C. Math 12 or permission of instructor

Lecture: 4

Transferability:

CGA 102

SIA Quantitative Methods with 86-330

**86-140 Introduction to Electronic Data Processing 3 credits**

Orientation to electronic data processing systems and equipment used in bulk processing of data, including accounting machines, punch card machines, and computers. Some computer language will be learned.

Spring semester.

Prerequisite: None

Lecture: 2 Laboratory: 2

No transfer credit

**86-170 Office Equipment 3 credits**

An introduction to capabilities of the commonly-used adding and calculating machines, cash registers, copiers and duplicating equipment, microfilming, dictating equipment, etc.

Fall semester

Prerequisite: None

Lecture: 1 Laboratory: 2

No transfer credit

**86-200 Fundamentals of Business 3 credits**

An introduction to modern business; basic concepts and techniques of organization; focus on business problems and situations in extractive, process, manufacturing, and service industries; emphasis on managerial analysis and decision-making. Involves student participation of a research, analytical, and evaluative nature.

Fall semester.

Prerequisite: None

Lecture: 2 Seminars: 2

Transferability:

UBC Commerce 190

SFU Commerce 203

**86-205\* Security Analysis and Investment 3 credits**

Techniques of security and investment risk analyses, including examination of functions and operations of security markets, their methods of price determination, and essentials of portfolio growth and management.

Offered on sufficient demand.

Prerequisite: 86-105 or permission of instructor

Lecture: 1 x 2 Seminar: 1 x 2

No transfer credit

**86-210 Personnel Practices and Administration 3 credits**

For students with little or no experience in a supervisory business or industrial setting. Attention directed to problems involved in maintenance of an efficient work force: human behavior in organizations, personnel programming, job analysis and evaluation, wage and salary administration, personnel recruitment and development, evaluation procedures, fringe benefits.

Fall and spring semesters.

Prerequisite: None

Lecture: 4

Transferability:

SIA Organizational Behavior

**86-220\* Business Law 3 credits**

A study of legislation on taxation, labor relations, combines, monopolies, insurance, negotiable instruments, banks and other financial institutions.

Spring semester.

Prerequisite: 86-120

Lecture: 4

Transferability:

With 86-120

CGA 108

SIA Commercial Law

**86-270 Office Systems and Procedures 3 credits**

An introduction to manual, one-write, keysort, and machine systems covering applications such as: billing, sales analysis, accounts receivable, accounts payable, expense distribution, inventory, payroll distribution, and payroll writing. A practice set in one-write form is to be completed by students. Course also provides a brief introduction to inter-relationships of basic functions such as purchasing, receiving, stock-keeping, production, selling, disbursing.

Spring semester.

Prerequisite: None

Lecture: 3 Laboratory: 1

No transfer credit

**86-300\* Money and Financial Institutions 3 credits**

An introduction to the process of financial intermediation, including the role of money and money substitutes, money supply and creation of credit, functions and practices of chartered banks, non-bank financial institutions and the Bank of Canada, regulation of the banking system, and determination of interest rates.

Offered on sufficient demand.

Prerequisite: Economics 83-100 and second year standing

Lecture: 4

No transfer credit

**86-301\* Advertising Seminar 1½ credits**

Fundamental principles of advertising practices, media selection, and budgeting. Techniques of writing effective copy, continuity, basic layout, and analysis of advertising programs.

Spring semester alternate years.

Prerequisite: Second year standing

Seminar: 2

No transfer credit

**86-310 Industrial Relations 3 credits**

A survey of the Canadian labor scene: impact of trade unions on industry and commerce; union objectives; employer organizations and labor unions as institutions; existing labor legislation and trends; collective bargaining and labor-management relations; mediation and arbitration. Course is largely directed to current events, particularly in B.C.

Fall semester.

Prerequisite: None

Lecture: 4

No transfer credit

**86-330\* Business Statistics 3 credits**

An introduction to business statistics, directed to following topics: statistical collection and presentation of data; central tendencies; dispersions; simple regression; correlation; frequency distributions; probability and normal distributions; inference and forecasting; time series. Also, sampling and sampling distributions; quality control; decision-making; estimation; tests of hypotheses; problems of prediction; planning business research; elementary operations research; Monte Carlo method; Chi-square.

Offered on sufficient demand.

Prerequisite: 86-130

Lecture: 2 x 1 Tutorial: 2 x 1

Transferability:

CGA 103

SIA Quantitative Methods with 86-130

**86-350 Traffic and Transportation 3 credits**

A survey course in logistics to give a background of the work and problems involved in distribution of products via road, rail, sea, air, and pipeline routings, with particular reference to B.C. The special role of the traffic-transportation manager is emphasized in the context of business management, in which transportation problems, including storage and inventory control, are shown as being only a part of the distribution picture.

Offered on sufficient demand.

Prerequisite: None

Lecture: 4

No transfer credit

**86-360 The Travel Agent 3 credits**

Designed for travel agency personnel, those wishing to enter the travel industry, and others in industries connected with travel who wish to enter the broader agency field. Selling techniques and general knowledge stressed.

Offered on sufficient demand.

Prerequisite: None

Lecture: 1 x 3

No transfer credit

**86-380\* Operations Management 3 credits**

This course is designed to give personnel, operating at first and second line supervisory levels, understanding of the concepts, analytical techniques, and controls that contribute to sound decision-making by the production manager.

Offered on sufficient demand.

Prerequisite: 3rd semester standing, or permission of instructor

Lecture: 4

No transfer credit

**86-402\* The Business Profession — Seminar 1½ credits**

This seminar course brings professional businessmen face-to-face with students in a series of weekly meetings. Diverse business fields (e.g. forest products, mining, transportation, retailing) and many executive functions (e.g. marketing, finance, sales, personnel) will be represented. Professional problems, goals, decision processes and strategies will be discussed by the practitioner. Strongly recommended for graduating class in business, economics and commerce transfer programs.

Spring semester alternate years

Prerequisite: Second year standing

Lecture: 1 Seminar: 1

No transfer credit

**86-450\* Traffic and Transportation Management 3 credits**

Deals with managerial problems of transportation in industry. Student assumes role of transportation manager, facing problems of organization, cost factors, inventory control, industrial relations, and finance. Examines techniques for determining warehouse locations.

Offered on sufficient demand.

Prerequisite: 86-350 (or practical work experience in traffic and transportation)

Lecture: 1 x 1 Seminar: 1 x 2 Tutorial: 1 x 1

No transfer credit

**86-460\* The Travel Agent 3 credits**

Designed for travel agency personnel, those wishing to enter the travel industry, and others in industries connected with travel who wish to enter the broader agency field. Selling techniques and general knowledge stressed. A continuation of 86-360.

Offered on sufficient demand.

Prerequisite: 86-360

Lecture: 1 x 3

No transfer credit

**CHEMISTRY**

Students intending to transfer to a major or honors program in chemistry are required to take the following courses in first year:

**SEMESTER I**

Chemistry 42-110

Mathematics 44-120

Physics 45-100 or 45-110

**SEMESTER II**

Chemistry 42-210

Mathematics 44-220

Physics 45-200 or 45-210

At UBC, Mathematics 44-131 is required, together with any two of Literature 91-101 to 120; Theatre 95-100; Creative Writing 96-100; Communications 92-100; plus six semester credits of electives.

At SFU, it should be noted that students who take Physics 45-110, 210 are given credit for Physics 201, 202 and 204, all of which are required.

Students may take their third and fourth semesters of chemistry at Douglas; but since our offerings are of a general nature, the universities have reserved the right to grant honors or major standing on the basis of individual performance, together with a recommendation from the department. The following courses should be taken:

**SEMESTER III**

Chemistry 42-310 and 42-320

Mathematics 44-320

**SEMESTER IV**

Chemistry 42-410 and 42-420

Mathematics 44-420

**42-100 General Chemistry 3 credits**

For students with little or no background in chemistry. Includes fundamental concepts of matter and energy, classification of matter, atoms, ions, molecules, moles, the behavior of gases, characteristics of liquids and solids, equilibrium in chemical reactions, and reactions of acids and bases.

Fall semester, or on sufficient demand in the spring.

Prerequisite: None

Lecture: 3 Tutorial: 1 Laboratory: 3

Transferability:

UBC with 42-200 Chemistry 103

SFU Chemistry 101

**42-110\* Principles of Chemistry 3 credits**

Classification of matter, atomic theory and structure, chemical bonding, energy and states of matter (solids, liquids and gases), structure and reactivity, energy and chemical change. Laboratory work directly related to lecture topics.

Fall semester.

Prerequisite: B.C. chemistry 12 or equivalent

Lecture: 3 Tutorial: 1 Laboratory: 3

Transferability:

UBC with 42-210 Chemistry 120

SFU Chemistry 104

(Cont'd. on pg. 25 section 2)

**42-200\* Applied General Chemistry**

3 credits

A continuation of 42-100. Topics include radiant energy and the composition of atoms, concepts of atomic structure, periodicity in atomic and molecular structure and properties, types of chemical bonds and properties of aggregates, introduction to organic and nuclear chemistry.

Spring semester or on sufficient demand in the fall.

Prerequisite: 42-100 or Grade XI, C grade or better

Lecture: 3 Tutorial: 1 Laboratory: 3

Transferability:

UBC with 42-210 Chemistry 103

SFU to be determined

**42-210\* Application of Principles of Chemistry**

3 credits

This course follows 42-110 and applies the fundamental concepts developed to inorganic and organic systems, e.g. periodic table, with its families of elements such as transition element; and organic, nuclear and bio-chemistry.

Spring semester.

Prerequisite: 42-110

Lecture: 3 Tutorial: 3 Seminar: 1

Transferability:

UBC with 42-110 Chemistry 120

SFU to be determined

**42-310\* Physical-Inorganic Chemistry**

3 credits

An introduction to chemical thermodynamics. Topics include the first law of thermodynamics and thermochemistry, entropy, free energy, chemical equilibrium in molecular systems, acid-base equilibrium and applications to biology. Laboratory stresses physical methods in inorganic chemistry.

Fall semester.

Prerequisite: 42-210

Lecture: 3 x 1 Seminar: 1 Laboratory: 1 x 3

Transferability:

UBC with 42-410 Chemistry 205

**42-320\* Organic Chemistry — Principles**

3 credits

A general organic chemistry course especially for students in home economics, nursing, agriculture, forestry, and the medical and biological sciences. Deals with fundamental aspects of organic chemistry, as illustrated by the structure and properties of main functional groups such as alkanes, alkenes, arenes, alcohols, phenols, ethers, carbonyl compounds and carboxylic acids and their derivatives.

Fall semester.

Prerequisite: 42-110 or 42-200 or equivalent

Lecture: 3 x 1 Tutorial: 1 Laboratory: 1 x 3

Transferability:

UBC with 42-420 Chemistry 230

**42-410\* Physical-Inorganic Chemistry**

3 credits

Topics include chemical kinetics, electrochemistry and application of thermodynamics to phase equilibria and properties of solutions; chemistry of co-ordination compounds and the application of spectroscopy in the determination of molecular structure.

Spring semester.

Prerequisite: 42-310

Lecture: 3 x 1 Seminar: 1 Laboratory: 3

Transferability:

UBC with 42-310 Chemistry 205

SFU 3 unassigned credits in Chemistry

**42-420\* Organic Chemistry — Principles and Application**

3 credits

A continuation of 42-320. Discusses general reaction mechanisms in organic chemistry, followed by an introduction to the chemistry of carbohydrates, fats, proteins, and other compounds of biological interest (e.g. an alkaloid and a steroid).

Spring semester.

Prerequisite: 42-320 or equivalent

Lecture: 3 x 1 Tutorial: 1 Laboratory: 1 x 3

Transferability:

UBC with 42-320 Chemistry 230

**COMMUNICATIONS — SEE ENGLISH****CONSTRUCTION MANAGEMENT**

**70-100** See Communications 92-150 Oral Communications

**70-110** See Communications 92-110 Career Communications

**70-120 Construction Materials and Applications**

3 credits

Planning and supervising a construction job requires detailed knowledge of materials, their costs, and how they are used. Course examines composition and applications of soil, concrete, aluminum, and various other materials.

Prerequisite: None

Lecture: 2 Laboratory: 2 Tutorial: 1

No transfer credit

**70-130 Drafting**

2 credits

Includes basic skills of drafting, handling of drafting equipment, drafting layout, printing, titling, applied geometry, and drawing views. Provides a firm base for the construction drafting course, which is the detailed study of blueprint reading and interpretation.

Prerequisite: None

Lecture: 1 Laboratory: 3

No transfer credit

**70-140\* Construction Science**

3 credits

Defines some of the laws which describe the physical phenomena around

us: forces and vectors, statics, moments and centre of gravity, power and energy, hydrostatics, hydrodynamics and elasticity.

Prerequisite: B.C. Physics 11, or permission of instructor

Lecture: 2 Laboratory: 2 Tutorial: 1

Transferability:

B.C.I.T. with 70-240 equivalent to General Physics 33-104 and 33-204

**70-150\* Construction Calculations**

3 credits

Course aims at increasing mathematical skills to the degree where one is capable of carrying out calculations required during management of a construction job. Includes handling of desk calculators, applied trigonometry, vectors, logarithms, slide rule, probability, and equation-solving.

Prerequisite: Math 11, or permission of instructor

Lecture: 3 Tutorial: 2

Transferability:

B.C.I.T. Basic Technical Math 32-101

**70-200 Introduction to Management**

3 credits

An introductory survey course in managerial principles and methods, with special emphasis on management for contractors. Includes allocation of priorities to objectives and responsibilities; framing of policy; and tasks of planning, organizing, staffing, and controlling the work of others to achieve these objectives. Particular attention given to quantitative methods as managerial tools.

Prerequisite: None

Lecture: 3 Laboratory: 1

No transfer credit

**70-220\* Construction Materials and Applications**

3 credits

Use of steel, wood, masonry, plastic, and glass in the construction trade is studied. Discusses fire safety, standards for materials, testing and code rulings on material standards. Course should round out student's knowledge of what he will be trying to control on the job.

Prerequisite: 70-120

Lecture: 2 Laboratory: 2 Tutorial: 1

No transfer credit

**70-230\* Construction Blueprint Reading**

2 credits

Relates principles and processes taught in Drafting 70-130 to construction blueprint reading. Teaches how to read and understand construction blueprints and specifications to carry out operations needed in quantity layout, estimating, and related fields.

Prerequisite: 70-130, or permission of instructor

Lecture: 2 Laboratory: 2

Transferability:

BCIT: with 70-140 equivalent to General Physics 33-104 and 33-204

**70-240\* Construction Science**

3 credits

Relates some of the physical laws to practical construction applications. Emphasis on temperature, heat, heat transfer and insulation, humidity, air conditioning, thermodynamics, sound and sound insulation, electricity, corrosion, illumination, and radiation shielding.

Prerequisite: B.C. Physics 11, or permission of instructor

Lecture: 3 Tutorial: 2

No transfer credit

**70-300\* Construction Management**

3 credits

Applies managerial principles and practices taught in Construction Management 70-200 to the managing of small and large construction firms. Explains how greater efficiency and profits may be obtained through careful planning, scheduling, and control operations. Also explains types of business organizations, company policies and standard procedures, cost control tools, development of bids from cost estimates, contracts and fees, equipment costs, legal and other matters.

Prerequisite: 70-200

Lecture: 3 Seminar: 1

No transfer credit

**70-301 Construction Labor Relations**

3 credits

Fundamental issues and facts of labor-management relations in the B.C. construction industry. Includes bargaining, collective agreement content and interpretation, and labor economics with special emphasis on the solution of present-day problems.

Prerequisite: None

Lecture: 2 Seminar: 1

No transfer credit

**70-320\* Construction Strength and Design**

3 credits

Basic concepts involved in designing a system, from a structural member to a complete structure. An introduction to strength of materials and a few basic analyses and design formulas. Examines the utility of design tables commonly used to perform structural design.

Prerequisite: 70-150

Lecture: 4

No transfer credit

**70-360\* Construction Estimating**

3 credits

Fundamentals of building construction estimating (material and labor), use of quantity take-off sheets, and preparation of a general estimate. Course integrates knowledge and understanding gained during first two semesters of Construction Management program.

Prerequisite: Enrolment in construction management certificate or diploma program, or employment in or experience with the construction industry.

Lecture: 3 Tutorial: 2

No transfer credit

**70-390\* Construction Surveying**

3 credits

The elements of plane surveying. Includes surveying instruments, distance measurement, differential levelling, simple traverses, construction



surveying, surveying notes, office computations. Designed to familiarize students with concepts of field surveying rather than to qualify graduates as surveyors.

Prerequisite: 70-150  
Lecture: 2 Tutorial: 3  
No transfer credit

**70-400\* Office Management** **3 credits**

The techniques of running an office, and legalities of handling construction contracts. Includes personnel management, principles of accounting and financing, and construction law.

Prerequisites: 70-100, 70-200  
Lecture: 2 Tutorial: 2  
No transfer credit

**70-460\* Construction Estimating and Bidding** **3 credits**

Applies principles taught in 70-360, to estimate material costs as well as miscellaneous and labor costs; also outlines overhead costs and profit allowances for complete construction projects. Co-operation of the estimator and the field personnel is stressed.

Prerequisite: 70-360  
Lecture: 2 x 1 Laboratory: 1 x 3  
No transfer credit

**70-491\* Structures** **3 credits**

Enables student to study structural techniques and types in light of his knowledge of estimating and bidding, structural design, and blueprint reading. Practical applications of techniques learned in these prerequisite courses are exhibited. Includes frame-dwelling construction, formwork erection, shoring and underpinning, concrete and reinforcing placement, steel erection techniques, and heavy construction practices.

Prerequisites: 70-230, 70-360 and 70-320  
Lecture: 3 Seminar: 1  
No transfer credit

**70-492\* Construction Scheduling** **3 credits**

Applies principles taught in 70-360 to construction scheduling methods generally, and to the use of critical path methods (CPM) scheduling specifically. Explains purpose and principles of scheduling, as well as symbols and activities of CPM.

Corequisite: 70-460  
Lecture: 1 x 2 Tutorial: 1 x 2  
No transfer credit

**70-493\* Project and Contract Management** **3 credits**

Applies principles taught in 70-300 to both administration of construction and trade contracts and administration of project management contracts.

Corequisite: 70-460  
Lecture: 3 x 1 Tutorial: 1  
No transfer credit

## CREATIVE WRITING — SEE ENGLISH

### DOUGLAS FOUR

**00-100 and 00-200 Douglas Four** **12 credits**

**Douglas Four** offers an alternative path to learning. It minimizes course structure and the traditional approach. That is, it does not divide knowledge into courses such as philosophy, mathematics or physics; instead, students approach knowledge by studying encompassing themes. Learning approaches such as seminars, lectures, field experiences, film and reading programs, are used where helpful to over-all development. **Douglas Four** provides a student the opportunity of joining other students and faculty in decision-making regarding the learning process; thus affording him a chance to cope with both personal challenges and those of contemporary society.

Spring and fall semesters.

Prerequisite: None

Lecture: 1 Seminar: 5 Field experience: 2 Tutorial: 2  
Student-directed learning: 12

Transferability for 2 semesters of Douglas Four:  
UBC 9 units unassigned credit in Arts  
SFU 18 unassigned credits in Arts

## ECONOMICS

**83-100 Fundamentals of Economics** **3 credits**

An introduction to macro and micro economics: the nature of economics; gross national product and distribution of wealth; concept of interest; monetary policy and banking system; demand for factors of production; pure competition; imperfect competition, and monopoly. Emphasis on relating course content to current situations in the market place.

Fall and spring semesters.

Prerequisite: None

Lecture: 4

No transfer credit

**83-101 The Canadian Economy** **3 credits**

An analysis of the Canadian economy relating to a broad range of areas including growth, roles of business and government in society, foreign trade, and monetary and fiscal policies. Emphasis on inflation, poverty, and unemployment. Student participation required.

Fall semester.

Prerequisite: None

Lecture: 3 Seminar: 1

Transferability:

UBC 1½ units unassigned credit in Economics  
SFU 3 unassigned credits in Economics

**83-110 Economic History** **3 credits**

Economic development of man through various stages of progress which laid the basis of our present-day economic system. Development of civilization, religion, social organization, and government as a result of changing economic circumstances. Covers the period from man's early beginnings to 1800.

Fall semester.

Prerequisite: None

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Economics  
SFU 3 unassigned credits in Economics

**83-201 Issues in Economic Development** **3 credits**

Describes economic conditions in third-world countries and examines factors promoting or hindering the process of economic development.

Spring semester.

Prerequisite: None

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Economics  
SFU 3 unassigned credits in Economics

**83-210 Economic History** **3 credits**

Economic development of Western Europe and North America since 1800, with special attention to the economic growth of Canada. The different economic systems of the 20th century are compared.

Spring semester.

Prerequisite: None

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Economics  
SFU Economics 152 (3 credits)

**83-311\* Principles of Macro Economics** **3 credits**

A framework is presented in which the components of national income are rigorously analyzed. Attention is focused on money and its role, the banking system and credit creation, multiplier analysis, and the role of government in the area of constraint and taxes.

Fall semester.

Prerequisite: Second year standing only if student wishes to transfer this course to UBC and use it as a prerequisite to Economics 300 in the Faculty of Arts.

Lecture: 1 x 2 Seminar: 1 x 2

Transferability:

UBC with 83-411 Economics 200 (3 units)  
SFU with 83-411 Economics 200 (6 credits)  
CGA with 83-411 204  
SIA with 83-411 Introductory Economics

**83-411\* Principles of Micro Economics** **3 credits**

Analysis of economic problems related to the firm and the individual, in both perfectly and imperfectly competitive markets, and the determination of price in both the goods and the productive factors markets.

Spring semester.

Prerequisite: Second year standing only if student wishes to transfer this course to UBC and use it as a prerequisite to Economics 300 in the Faculty of Arts.

Lecture: 3 Seminar: 1

Transferability:

UBC with 83-311 Economics 200 (3 units)  
SFU with 83-311 Economics 200 (6 credits)  
CGA with 83-311 204  
SIA with 83-311 Introductory Economics

## EDUCATION

**Formerly 66-100** — See Reading Skills

93-101 The Student and Successful Library Research

**Formerly 66-110** — See Graphics and Communications

13-154 Audio-Visual Technology

**Formerly 66-115** — See Graphics and Communications

13-152 Graphics and A/V Communications

**Formerly 66-210** — See Graphics and Communications

13-254 Audio-Visual Communications

## ENGLISH AND COMMUNICATIONS

See sub-headings: **Literature, Literature of the Theatre, Advanced Literature, Communications, Creative Writing.**

### A. Composition:

Students in English courses are expected to demonstrate basic language skills — grammar, punctuation and spelling. Deficiencies will be noted by instructors and must be corrected by the student. The Study Centre on each campus will have programmed, self-help material for the student's use. There will also be an English instructor present at specified periods to assist the student in the use of these materials, as well as with other composition problems.

In addition, those enrolling in courses other than first-level composition courses should be able to write well-organized, unified and coherent expository prose. Weakness in composition skills will frequently affect the student's marks, and pronounced weakness will generally make a C or better unattainable.

### B. Transfer Information for UBC and SFU:

**UBC:** Students desiring transfer credit for first-year English at UBC (English 100 — three units of UBC credit) will normally require six semester hours of Douglas College credit, that is two courses selected from the following: 91-101 to 91-114 inclusive, 92-100, 92-200, and 95-100.

Students desiring transfer credit for second-year English at UBC (English 200 — three units of UBC credit) will require six semester hours of Douglas College credit, that is two courses selected from the following: 91-314, 91-315, 91-316, 91-317, and 91-319.

Students desiring to *major* or *honour* in English should complete the course at Douglas that will give them transfer equivalence to English 100 and English 200 at UBC. In the case of English 200 the two Douglas courses selected must be 91-316 and 91-317.

Certain Faculties at UBC have an alternative literature requirement (Literature 200) and do not require the completion of English 200 or its equivalent. See UBC Calendar for the literature requirement of a specific Faculty.

SFU: Consult counsellors or SFU Calendar for the literature requirement of a specific Faculty.

Students desiring to *major* or *honour* in English should take courses at Douglas that will give them transfer credit for:

1. any two of SFU's English 101, 102 and 103
2. and both of SFU's English 202 and 203
3. and take one literature course at Douglas which has transfer credit (assigned or unassigned) and which has not already been taken for credit under 1 or 2 above. Consult counsellors to determine if 92-100 can be taken for credit.

### C. Prerequisites for English courses at Douglas College

These prerequisites apply only to Douglas College and are not related to the transfer requirements of the universities.

- 1) There is no prerequisite for first-year level courses in English and Communications at Douglas College (but see statement on composition);
- 2) For second-year level courses in Literature, students are required to have first-year standing, defined as follows: first-year standing is achieved by the completion, with a grade point average of 2.0 or better in the two courses, of any two courses from list "A" or one course from list "A" and one course from list "B".

| "A"                        | "B"    |
|----------------------------|--------|
| 91-101 to 91-114 inclusive | 92-100 |
| 95-100                     | 92-200 |
| 96-100                     | 92-110 |
| 96-200                     | 92-120 |

In addition to first-year standing, some courses have other prerequisites, which in all cases are clearly stated following the Calendar description.

## LITERATURE

### 91-101 The Canadian in Time and Place 3 credits

The rationale behind this course is primarily that of exposure to the *wealth* of Canadian literature. The focus is on the works of prose — novels, essays, and short stories — with occasional reference to poetry. Explores varieties of expression in terms of milieu and region, and examines qualities of rural and urban literature. The essential dichotomy that is Canada — the seeming splits between east and west, town and country, French and English — is explored in detail.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature, exempts from English 101

### 91-102 Order from Chaos 3 credits

A study of selected poetry and prose by significant modern writers. Student studies individual works in detail, focusing on the writer's attempt to transform the chaos of personal and social experience into the order of a disciplined work of art. Course assumes, as its major focus, an evaluation of the resonance between a writer's form and content. Designed for those anxious to develop critical awareness and interested in relating personal viewpoints to reading experiences.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature, exempts from English 101 or 102 (student's choice)

### 91-103 The Liberated Vision 3 credits

The reading, study, and discussion of major literary works often referred to as visionary or prophetic. The major works of writers such as D.H. Lawrence, William Faulkner, William Blake, and Franz Kafka will be examined and compared, with emphasis on the individuality of statement and perspective of these writers. The visions of social reform and the human condition, mystical experiences, and religious prophecy will be considered in conjunction with the literary aspects of each work.

Offered on sufficient demand.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

### 91-104 Contemporary Prose: The Reader's Quest 3 credits

This course gives the student an understanding of the complexities arising from the modern industrial and technological order by providing the opportunity to read and discuss works of contemporary prose writers.

Offered on sufficient demand.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

### 91-105 The Isolated American 3 credits

A study of novels and short stories, or both, of major authors such as Hawthorne, Melville, James, and Hemingway. There is close analysis of themes and literary devices, as well as consideration of characteristic concerns in American fiction, such as isolation from society and achievement of a satisfactory sense of self.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature, exempts from English 101

### 91-106 The Contemporary Novel 3 credits

Course caters to individual interests and pursuits in relation to the contemporary novel. Illustrates scope of the novel and provides student with techniques for appreciation, analysis, and criticism. Considers various modes such as surrealism, black humor, stream of consciousness, de-personalization, heightened realism, and the autobiographical "non-novel." By "contemporary" the course means the qualities of alienation, fragmentation, and breakdown that define the modern world.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 credits English 101

### 91-108 The Bible as Living Literature 3 credits

A study of the *literature* of the Bible. Concentrates on Old Testament and Christ's life and teachings. Genres include the short story, poetry, drama, history, biography, wisdom, and apocalyptic literature. Attention given to archaeological discoveries of ancient tablets and manuscripts, and to myths and legends rooted in antiquity which are common to many cultures — ancient and modern.

Offered on sufficient demand.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

### 91-109 Man in Conflict 3 credits

Consists of works that reflect the major trends in English literature of the transitional period 1870-1918. The student considers the revolution in ideas and social forces, revealed through close study of specific works.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

### 91-114 The Poet in the Poem: Studies in 20th-century Poetry 3 credits

A study of representative works of 20th-century American, British, and Canadian poets — including such writers as e.e. cummings, Dylan Thomas, and Irving Layton. By focusing on themes and critical-evaluative techniques, the course is directed toward the development of practical, interpretative skills in reading poetry, and in approaching the various poetic forms modern poets have chosen to render their individual visions of man's condition. The readings will be appropriately related to traditions in the genre of poetry.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100

SFU 3 credits English 102

### 91-115 Great Works of Western Literature 3 credits

Representative examples of Western literature such as *The Odyssey*, *Oedipus the King*, *Crime and Punishment* and *Dr. Faustus*, will be studied to demonstrate aspects of the Hebraic and Greco-Roman traditions, the origins of Western literature, mythologies of different ages, and to offer a sense of the wholeness of literature. The focus of this course will differ from that of 91-116.

Offered on sufficient demand.

Prerequisite: None

Lecture: 1 Seminar: 2 Other: 1

Transferability:

UBC to be determined

SFU to be determined

### 91-116 Great Works of Western Literature 3 credits

Representative examples of Western literature such as *The Odyssey*, *Oedipus the King*, *Crime and Punishment* and *Dr. Faustus*, will be studied to demonstrate aspects of the Hebraic and Greco-Roman traditions, and origins of Western literature, mythologies of different ages, and to offer a sense of the wholeness of literature. The focus of this course will differ from that of 91-115.

Offered on sufficient demand.

Prerequisite: None

Lecture: 1 Seminar: 2 Other: 1

Transferability:

UBC to be determined

SFU to be determined

## ADVANCED LITERATURE

**91-310\* 19th-Century Continental Literature in Translation 3 credits**

An introduction to major 19th-century works in various genres. Besides analysis of representative literary techniques, students consider aspects of the literary and cultural complex from which these major works were drawn; for example, such developments as romanticism and naturalism.

Spring and fall semesters.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC 1½ units unassigned credit in Literature  
SFU 3 credits English 225

**91-311\* 20th-Century Continental Literature in Translation 3 credits**

An introduction to major 20th-century works in various genres. Besides analysing representative literary techniques, students consider aspects of the literary and cultural complex: for example, Soviet censorship or French existentialism.

Spring and fall semesters.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC 1½ units unassigned credit in Literature  
SFU 3 credits English 225

**91-312\* Language Studies and Literary Interpretation: Stylistics 3 credits**

Various concepts of style and current theoretical positions about language and its use are analyzed. Readings include poetry by Dylan Thomas, e.e. cummings; novels by Hemingway and Joyce Cary; and essays in linguistics and language.

Offered on sufficient demand.

Prerequisites: Any two of: Literature 91-101 to 114; Communications 92-100, 200, 110, 120; Theatre 95-100, Creative Writing 96-100; Modern Languages 26-121 or 141.

Lecture: 2 x 2

Transferability:

UBC 1½ units unassigned credit in second-year Literature  
SFU 3 credits English 212

**91-313\* Studies of Major Writers 3 credits**

Critical approaches are employed in examining and evaluating works of major writers of central importance to literary history, including Dickens, Donne, and Shaw. The student studies both the writer's principal works and appropriate works of his contemporaries, with emphasis on understanding the writer's central themes. The student may also read the writer's non-literary work, a biography, and appropriate works of literary criticism.

Offered on sufficient demand.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC 1½ units unassigned credit in second-year Literature  
SFU 3 unassigned credits in Literature, exempts from English 202 or 203 (student's choice)

**91-314\* Poetics 3 credits**

A consideration of poetic theories from Aristotle to T.S. Eliot, including the works of Ruskin, Arnold, Coleridge, and Ezra Pound. The poetry of Donne, Shakespeare, and Hopkins is also examined as well as the work of some contemporary poets. The course explores the form and structure of poetry in order to approach the field with imagination and a critical perspective.

Offered on sufficient demand.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC 1½ units English 200  
SFU 3 credits English 203

**91-315\* The Comic Voice: Studies in Comedy 3 credits**

Representative works are studied and related to theories and traditions of comedy. A diversity of novels and drama, such as Shakespeare's *Twelfth Night*; Dickens' *The Pickwick Papers*; and Synge's *The Playboy of the Western World*, demonstrate the scope and depth of the comic genre.

Offered on sufficient demand.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC 1½ units English 200  
SFU 3 credits English 202

**91-316\* Readings in the English Literary Tradition: 14th to 18th Centuries 3 credits**

Representative works from literature of the 14th through 18th centuries are studied and appropriately related to English literary tradition.

Spring and fall semesters.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC 1½ units English 200  
SFU 3 unassigned credits in Literature, exempts from English 202 or 203 (student's choice)

**91-317\* Readings in the English Literary Tradition: 18th to 20th Centuries 3 credits**

Representative works from literature of the 18th, 19th, and early 20th centuries are studied and appropriately related to English literary tradition.

Spring and fall semesters.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC 1½ units English 200  
SFU 3 unassigned credits in Literature, exempts from English 202 or 203 (student's choice)

**91-318\* The Science-Fiction Novel: A Critical Approach 3 credits**

The reading of a selection of science-fiction works by such writers as James Blish, Isaac Asimov, Robert A. Heinlein, and Arthur C. Clarke, and works of fantasy, including C.S. Lewis and J.R.R. Tolkien. Critical works related to the field are examined.

Offered on sufficient demand.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC no transfer credit  
SFU 3 unassigned credits second-year Literature

**91-319\* The English Novel: Its Development 3 credits**

Course traces development of the English novel from 18th to 20th centuries. Styles and themes of representative novelists of the period are studied.

Offered on sufficient demand.

Prerequisite: First-year standing, see English note.

Lecture: 2 x 2

Transferability:

UBC 1½ units English 200  
SFU 3 credits English 202 or 3 unassigned credits second-year Literature, if 202 otherwise obtained.

## COMMUNICATIONS

**92-100 Expository Writing 3 credits**

This course includes the reading and study of essays and selections from essays, the writing of essays on expository types, and lectures on principles of composition. Primary emphasis is on the writing of essays. Students are expected to revise corrected essays to eliminate individual composition problems.

Spring, fall and summer semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100  
SFU to be determined

**92-110 Career Communications 3 credits**

Covers the organization of factual material and its presentation in letters and reports according to accepted business and professional standards.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

BCIT with 94-100 equivalent to Written and Oral Communications 31-101 and 31-201.

**92-120 Creative Writing — Multi-Media 3 credits**

A practical approach to writing and adapting materials for all areas of radio, television and film — including news stories, drama for theatre release, television programming and documentaries.

Offered on sufficient demand.

Prerequisite: None

Lecture: 1 Laboratory: 2 Field experience: 1

No transfer credit

**92-150 Oral Communications 3 credits  
(formerly 94-100 Speech)**

A course designed to develop skill and confidence in public speaking. Each section begins with some basic theory, and then gives ample opportunity for practice. In addition to extemporaneous speech, the course explores listening, job interviews and group discussions.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

BCIT with 92-110 equivalent to Written and Oral Communications 31-101 and 31-201.

**92-200\* Advanced Exposition and Argument 3 credits**

A study of rhetorical style from the viewpoint that good style is primarily a matter of making wise choices from a range of possibilities. Through reading examples, a student discovers choices made by good writers. The student's own style is developed and studied through his own writing.

Offered on sufficient demand.

Prerequisite: 92-100, or instructor's permission

Laboratory: 2 x 2

Transferability:

UBC 1½ units English 100  
SFU to be determined

**92-290 Applied Communications 3 credits**

Directed to career students; gives experience in the application of oral and written communication skills to work situations. Includes persuasion and motivation strategies, conduct of and participation in business meetings, the arts of listening and observation, internal and external business communications.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

No transfer credit



## LITERATURE OF THE THEATRE

### 95-100 A Prism of Man and the Drama: Insights and Happenings 3 credits

Course deals with the dilemma of man and with his complexity as revealed in representative works of modern drama. Emphasis on perception and on participation in both seminar discussions and oral readings. The drama is considered as an expression of man and as a cultural force.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units English 100 also 1½ units unassigned credit in Theatre  
SFU 3 credits English 103

## CREATIVE WRITING

### 96-100 The Short Story 3 credits

A workshop in the craft of short-story writing. The nature of the story — its compression of time — examined in works of major authors. Students are encouraged to write stories which are evaluated by instructor and classmates.

Spring and fall semesters.

Prerequisite: None

Laboratory: 2 x 2

Transferability:

UBC 1½ units Creative Writing 202  
SFU 3 unassigned credits in Literature

### 96-200\* Short Story, Poetry, Drama and the Novella 3 credits

A workshop in the craft of short-story, poetry, drama, and novella writing. The nature of each of these art forms examined in the works of major authors. The student is encouraged to continue writing in the form in which he shows the most promise, his work being discussed by instructor and classmates.

Spring semester only.

Prerequisite: 96-100

Laboratory: 4

Transferability:

UBC 1½ units Creative Writing 202  
SFU 3 unassigned credits in Literature

## ENVIRONMENTAL STUDIES

The following courses are recommended for students seeking knowledge in the field of environmental studies. Descriptions of them appear elsewhere in this Calendar under their respective department headings.

| Course                   | Description                                       | Credits |
|--------------------------|---|---------|
| <b>Anthropology</b>      |   |         |
| 24-140                   | Culture and Environment .....                     | 3       |
| <b>Biology</b>           |   |         |
| 41-100                   | Environmental Crisis .....                        | 3       |
| 41-110                   | The Biosphere .....                               | 3       |
| 41-111                   | The Organism .....                                | 3       |
| 41-322*                  | Ecology .....                                     | 3       |
| <b>Geography</b>         |   |         |
| 25-100                   | Man and the Earth .....                           | 3       |
| 25-110                   | Weather and Climate .....                         | 3       |
| 25-120                   | Evolution of the Earth's Surface .....            | 3       |
| 25-130                   | Environment and Technology .....                  | 3       |
| 25-140                   | Geography as Image, Meaning, and<br>Feeling ..... | 3       |
| 25-150                   | Canadian Arctic .....                             | 3       |
| 25-160                   | B.C. and the Yukon .....                          | 3       |
| <b>Geology</b>           |   |         |
| 43-100                   | Discover the Earth .....                          | 3       |
| 43-210*                  | Our Changing Earth .....                          | 3       |
| <b>History</b>           |   |         |
| 21-110                   | The Fraser Valley .....                           | 3       |
| <b>Literature</b>        |   |         |
| 91-101                   | The Canadian in Time and Place .....              | 3       |
| <b>Philosophy</b>        |   |         |
| 27-110                   | Morality in Turmoil .....                         | 3       |
| 27-210                   | Ethics and Moral Judgment .....                   | 3       |
| <b>Political Science</b> |   |         |
| 22-120                   | Canadian Government .....                         | 3       |
| <b>Psychology</b>        |   |         |
| 28-330*                  | An Introduction to Social Psychology .....        | 3       |
| 28-430*                  | Social Psychology: Theory and Research .....      | 3       |
| <b>Sociology</b>         |   |         |
| 23-290*                  | Urbanization and Industrialization .....          | 3       |
| 23-260*                  | Sociological Inquiry 1 .....                      | 3       |
| 23-360*                  | Sociological Inquiry 2 .....                      | 3       |

## FASHION

### 61-100 Introductory French Draping 1 credit

How to create a variety of body patterns — sleeves, bodices, skirts — from basic measurements and further develop them to original designs. Professional techniques are used to simulate an industrial atmosphere. Course trains students for careers as fashion designers and pattern makers.

Prerequisite: None

Laboratory: 3

No transfer credit

### 61-110 Introductory French Draping 1 credit

Professional design-room techniques of pattern drafting, using method of French draping as in couture and industrial areas. French draping is a continuing process throughout all four semesters, the student progressing as his ability dictates.

Prerequisite: None

Laboratory: 3

No transfer credit

### 61-120 Basic Apparel Design and Textiles 3 credits

Stimulates creativity and increases understanding of fashion trends. Trends of 20th century analyzed. Emphasis on sources of inspiration for design. Rules of good design covered. Designs created.

Prerequisite: None

Lecture: 2 Laboratory: 4

No transfer credit

### 61-121 Modelling and Finishing 2 credits

Students learn to model and show garments to advantage. Emphasis is placed on individual grooming and preparation for fashion shows.

Prerequisite: None

Lecture: 2 Laboratory: 2

No transfer credit

### 61-130 Fundamentals of Apparel Construction 1 credit

Professional design-room techniques of garment construction are related to couture and mass production markets. Emphasis on fit and professional finishing. Proper use of linings, interlinings, interfacings, etc.

Prerequisite: None

Laboratory: 3

No transfer credit

### 61-170 Creative Apparel Design and Production 3 credits

This course is a comprehensive introduction to apparel design and the translation of a design into the finished garment. The student will learn the elements of creative design, produce a pattern, and a finished garment as a final project. Information about history and the principles of clothing design will be provided. It is assumed that the student has a firm grasp of sewing techniques.

Prerequisite: None

Laboratory: 1 x 2 Seminar: 1 Field experience: 1

No transfer credit

### 61-200\* Intermediate Flat-Pattern Drafting 3 credits

Covers utilization of the three basic blocks — waist, sleeve, skirt — and provides orientation in the industrial methods of block development, proper marking, notching, etc. Student learns to analyze causes of mistakes and make proper corrections.

Prerequisite: 61-100

Laboratory: 6

No transfer credit

### 61-210\* Applied French Draping 1 credit

Professional design-room techniques of pattern drafting, using method of French draping as in couture and industrial areas. This course, required in all four semesters, allows student to progress according to ability.

Prerequisite: 61-110

Laboratory: 3

No transfer credit

### 61-220\* Apparel Design and Textiles 3 credits

Course expands principles and applications learned in 61-120. Creative expression and commercial analysis of fashion trends are emphasized in projects.

Prerequisite: 61-120

Lecture: 2 Laboratory: 4

No transfer credit

### 61-230\* Apparel Construction 3 credits

Tailoring of original designs using design-room techniques. Emphasis on styling, fit, professional finishing, appropriate use of fabric, lining, interlining, trims, etc.

Prerequisite: 61-130

Laboratory: 6

No transfer credit

### 61-300\* Senior Flat-Pattern Drafting 3 credits

Student continues to advance the basic block set, including coat and suit blocks, and pant-type garments. Advanced grading learned. Knowledge gained in first year, plus that learned in class, is used to prepare the student-designer collection.

Prerequisite: 61-200

Laboratory: 6

No transfer credit

### 61-310\* Creative French Draping 1 credit

Professional design-room techniques of pattern drafting, using method of French draping merged with flat-pattern drafting to produce advanced stylings.

Prerequisite: 61-210

Laboratory: 3

No transfer credit

### 61-320\* Commercial Apparel Design and Textiles 3 credits

A study of design concepts and methods. The work of eminent designers of clothing industries is studied. Influence of design on fabrics completes the course.

Prerequisite: 61-220  
Lecture: 2 Seminar: 2 Laboratory: 2  
No transfer credit

**61-330\* Senior Apparel Construction 3 credits**

Professional assembling procedure with emphasis on coats and suits. Design-room finishes and details covered. Techniques using a sewing machine to achieve finishes similar to those produced by handwork.

Prerequisite: 61-230  
Laboratory: 6  
No transfer credit

**61-370 Fashion Merchandising 3 credits**

This course examines and describes garment construction, colour co-ordination, accessories, the fashion cycle, and fashion buying techniques.

Prerequisite: None  
Lecture: 2 Seminar: 2  
No transfer credit

**61-390 History of Costume 3 credits**

A survey from earliest times to 17th century. Included is dress of ancient Orient and Egypt, Greece, Rome, Feudal Europe, and the Renaissance. Open to students in other programs.

Prerequisite: None  
Lecture: 3 x 1  
No transfer credit

**61-400\* Advanced flat-pattern Drafting 3 credits**

Student continues to advance basic block set with relation to children's wear and intimate apparel. Student-designer collection completes this semester. Fashion show planned; bringing allied courses into focus.

Prerequisite: 61-300  
Laboratory: 6  
No transfer credit

**61-410\* Commercial Application of French Draping 1 credit**

Professional techniques of producing patterns using method of French draping are expanded and refined. Garments made by this method, combined with those of flat-pattern drafting, are included in fashion show.

Prerequisite: 61-310  
Laboratory: 3  
No transfer credit

**61-420\* Advanced Apparel Design and Textiles 3 credits**

Students complete designer collection and do individual share of work required for the fashion show — promotion, commentary, modeling, etc. This is when all courses studied throughout the two-year program unite to produce the fashion show.

Prerequisite: 61-320  
Lecture: 2 Seminar: 2 Laboratory: 2  
No transfer credit

**61-430\* Advanced Apparel Construction 3 credits**

Assembling of children's wear and intimate apparel. Garments for fashion show completed.

Prerequisite: 61-330  
Lecture: 1 x 2 Laboratory: 1 x 4  
No transfer credit

**FIRE SCIENCE**

**63-100 Chemistry of Fire 3 credits**

Presents that chemical knowledge which is essential to anyone concerned with the fire-fighting community for the safe and efficient performance of their tasks. Includes characteristics of matter, gases, fundamental principles, combustion and heat, atomic energy, and radiation.

Prerequisite: None  
Lecture: 2 Laboratory: 2  
No transfer credit

**63-101 Survey of Fire Science 3 credits**

Describes roles of volunteer, industrial, marine, aviation, municipal, provincial, and federal fire-fighting authorities. Although fire insurance, prevention and protection, suppression and investigation are later treated separately, this survey includes a brief historical study of these areas and examines their functional inter-relationship.

Prerequisite: None  
Lecture: 2 Laboratory: 2  
No transfer credit

**63-270\* Fire Insurance 3 credits**

Commencing with basic reasons for obtaining fire insurance and a profile of national fire losses, this course discusses the roles of broker, adjuster, underwriter, and insurance companies; how insurance is sold; criteria by which a competitive rate is set; the role of rating organizations such as Canadian Underwriters Association; re-inspection services and recommendations; investigation and challenging of claims.

Corequisites: 63-100 and 63-101  
Lecture: 4  
No transfer credit

**63-271\* Fire Prevention 3 credits**

Included are roles played by the Canadian Underwriters Association, fire marshal, and other authorities in enforcing acceptable standards of fire prevention and protection in business, industry, etc. Aspects of fire prevention include materials handling and design; hazard control; education

programs; and special legislation. Aspects of fire prevention include understanding and control of important electrical and hydraulic protection systems, such as ionization detectors and automatic sprinklers.

Corequisites: 63-100 and 63-101

Lecture: 4  
No transfer credit

**63-272\* Fire Suppression 3 credits**

Includes pre-fire planning, classification of fires, special fire types, and a review of the chemistry of fire. This is followed by a discussion of alarm systems; the handling of motorized, fixed, and portable fire equipment; fire extinction methods; the strategy of fighting a fire; fire streams; and fire ground hydraulics.

Corequisites: 63-100 and 63-101

Lecture: 2 Laboratory: 2  
No transfer credit

**63-273\* Fire Investigation 3 credits**

Discusses various investigative organizations including their roles and responsibilities; skills and training required of an investigator; pattern and behavior of accidental fires involving principles of the chemistry of fire; scientific investigation of fire causes; writing a fire investigation report; and the firefighter's contribution to fire investigation.

Corequisites: 63-100 and 63-101

Lecture: 4  
No transfer credit

**63-274\* Fire Science Technology 3 credits**

Discusses materials, standards, and standards test; roles of organizations such as Underwriters Laboratories of Canada and Canadian Underwriters Association; how the degree of fire protection determines insurance rates and the influence this has on materials selection; fire-fighting apparatus and their capabilities and test standards; measurement techniques; main guidelines for design, layout, and installation of fire protection systems.

Corequisites: 63-100 and 63-101

Lecture: 2 Laboratory: 2  
No transfer credit

**FRENCH — SEE MODERN LANGUAGES**

**GEOGRAPHY**

**Nature of Geography Discipline**

Geographic inquiry is rich, profound, and humanizing because it entails an understanding of physical as well as cultural processes as they are revealed in interaction in the landscape. The landscape is that zone at or near the earth's surface that is perceived, used, or affected by man — the zone when lithosphere, hydrosphere, and atmosphere interact. The dimensions of this zone have, however, changed with time. New advances in technology have made human penetration of space and oceans possible, thereby expanding the zone in which a geographer would be interested. A process is a series of changes taking place in a definite manner, changes that also vary in time and space. Processes are physical when they are totally or primarily a result of forces independent of man, e.g., faulting, stream erosion, wave action, and hurricanes. Processes are cultural when they are totally, or primarily a result of the activities of man, e.g., urbanization and agriculture. Distinction between the two can, at times, be difficult, e.g., flooding can be attributed to quick spring thaw as well as deforestation of the catchment area.

For subject matter, explanations, and methods, Physical Geography draws upon the physical sciences. For example, the study of weathering involves processes of chemistry, precipitation of Physics, rocks of Geology, vegetation of Botany, and map projections of Mathematics. Physical geographic studies can deal solely with the physical processes such as folding, faulting, vulcanism, weathering, mass wasting, fluvial, glacial, aeolian, and marine, without regard to man, or can involve studies of human impact on physical processes such as atmospheric pollution and open pit mining. Douglas College courses 25-110 and 25-120 are Physical Geography courses.

Human geography inquiry usually involves studies of the human drama played on the physical environment stage. It attempts to understand man in the fullness of his human existence. Rather than reduce man to a set of genetic structures or social/class roles, or behavioral responses, the human geographer seeks to know man in his "place." Man is never fully understood apart from what he feels and believes to be his "place" be it his home, city, or country. Man is "in the world" and human geography must focus on the nature of that "inness" as each group and culture experiences it. Human geographic inquiry draws upon the data, method, and theories of Anthropology, Sociology, Psychology, Economics, Mathematics, the Arts and the Humanities, as well as physical geographic studies. Douglas College courses 25-100, 25-130, 25-140, 25-150, 25-160 and 25-170 are in this field.

The student who engages in physical and human geographic study will achieve the "sense of balance" that characterizes modern geographic thought. Geography offers an almost unique opportunity for the synthesis and integration of the fund of human knowledge.

**25-100 Man and the Earth 3 credits**

An analysis of the nature and structure of human geographic inquiry through examination of the various views of the nature of human geography, its several methods, its basic concepts, theories and data; identification of the kinds of questions traditionally selected for study, and a critical assessment of the issues which should be included in the discipline.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Geography  
SFU Geography 101 (3) or with 25-130 = SFU 101 (3) + 3 unassigned credits in Geography.

**25-110 Weather and Climate****3 credits**

An introduction to the study and techniques of meteorology and climatology. How climatic controls acting upon elements of weather produce different climates. Their application to environmental problems such as air pollution, forest fire control, and arctic survival.

Spring and fall semesters.

Prerequisite: None

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Geography or with 25-120 Geography 101 (3)

SFU 3 unassigned credits in Geography or with 25-120 Geography 211 (3) and 3 unassigned credits in Geography.

**25-120 Evolution of the Earth's Surface****3 credits**

A study of the origins and development of the earth's landscapes by a combination of internal, constructive forces such as folding, faulting, and vulcanism; and external, gradational forces such as weathering, mass wasting, running water, glaciers, wind, and waves.

Spring and fall semesters.

Prerequisite: None

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Geography or with 25-110 Geography 101 (3)

SFU 3 unassigned credits in Geography or with 25-110 Geography 211 (3) and 3 unassigned credits in Geography

**25-130 Environment and Technology****3 credits**

An attempt to ascertain root causes of the environmental crisis to establish a more balanced perspective than current doomsday theorizing. Four serious proposals for restructuring the man-nature relationship are explored. This is not a "pollution solution" course nor an ecology course, but an inquiry into the environment impact of varying man-nature philosophies.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Geography

SFU Geography 101 (3 credits) with 25-100 = SFU 101 (3 credits) + 3 unassigned credits in Geography

**25-140 Geography as Image, Meaning and Feeling****3 credits**

The student will be introduced to the concept of human geography as the study of man's "sense of place." Four basic themes are developed: 1) historical roots of the geographer's fascination with "place," especially the French school of human geography; 2) Image: emergence of environmental perception as a key geographic concept; 3) Meaning: landscape symbolism; 4) Feeling: the subjective, emotional experiencing of one's "place." The course relies on seminar participation, field trip experience, and audio-visual presentations to develop the concepts. As a major project each student will analyze the "sense of place" revealed in the work of a novelist, poet, or artist of his/her choice. (Emphasis will be on the Canadian landscape.)

Spring and fall semesters.

Prerequisite: None

Corequisite: None

Lecture: 1 x 2 Seminar: 1 x 2 Field Experience: approximately 5 hours total.

Transferability:

UBC 1½ units unassigned in Geography

SFU 3 unassigned credits in Geography

**25-150 The Canadian Arctic****3 credits**

An introduction to the physical and human geography of Arctic Canada, with reference to other polar regions such as the Antarctic and Russian Arctic. Problems of human occupancy in the north and the impact of man on the physical environment: exploration, transportation, historical development of several Arctic communities (Frobisher, Resolute, Cambridge Bay), northern resources, and current social problems. Stress placed on physical environment and resource development. An interest in meteorology, basic geomorphology, and human geography is assumed.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 Seminar: 1

Transferability:

UBC 1½ units unassigned credit in Geography

SFU 3 unassigned credits in Geography

**25-160 British Columbia and the Yukon****3 credits**

Introductory regional geography of B.C. and the Yukon. While this course includes a general study of physical environment and a historical settlement background, it concentrates on problems relevant to sections of the Pacific Coast area — e.g., resource development and conservation, irrigation, urbanization, life in remote rural areas. It also includes an examination of the role of the west in Canada's future development. Field work forms an integral part of the course and a basic knowledge of map reading is assumed.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 x 2

Transferability:

UBC 1½ units unassigned credit in Geography

SFU 3 unassigned credits in Geography

**25-170 Introduction to Cartographic Techniques****3 credits**

Techniques and tools a geographer uses to establish geographic relationships. Includes field survey, construction of maps to scale, interpretation of aerial photographs and topographic maps, and construction of diagrams, cartograms, and distribution maps.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 Laboratory: 3

Transferability:

UBC 1½ units unassigned credit in Geography

SFU Geography 151 (3)

**GEOLOGY**

Geology is the study of the evolution of planet earth. Considered are the origins and evolution of rocks and minerals, oceans, atmosphere and life, and their interactions.

Beginning students should enrol in Geology 43-100: "Discover the Earth." This is a core course to introduce the students to geology. The student has the option of considering this course terminal (equivalent of Geography 211-3 at SFU or 1½ unassigned geology credits at UBC). During the second semester, the student may take a single-semester biology course (advisable for potential elementary or primary school teachers), or the second semester Geology 43-210: "Our Changing Earth." The sequence 43-100 and 43-210 is the equivalent of Geology 105 at UBC. The sequence 43-100 and 25-110 is the equivalent of Geography 101 at UBC.

**SEMESTER I**

Physics 45-100 or 45-110

Chemistry 42-100 or 42-110

Mathematics 44-120

Geology 43-100 or 43-110

**SEMESTER II**

Physics 45-200 or 45-210

Chemistry 42-200 or 42-210

Mathematics 44-220 and 44-131

Geology 43-210

During both semesters, any two of Communications 92-100; Literature 91-101 to 120; Theatre 95-100; Creative Writing 96-100 and 96-200.

**43-100 Discover the Earth****3 credits**

Introduction to the study of the earth. Emphasis on rocks and minerals, the interior of the earth, and the geologic time scale.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 Laboratory: 3

Transferability:

UBC 1½ unassigned credits in Science or with 43-210 Geology 105 or with 25-110 Geography 101

SFU Geography 211

**43-210\* Our Changing Earth****3 credits**

An inquiry into aspects of earth history, with special emphasis on origin of the earth and its environment. Development of continents and oceans, investigation of geologic and resource environmental problems.

Spring and fall semesters.

Prerequisite: 43-100

Lecture: 2 Laboratory: 4

Transferability:

UBC with 43-100 Geology 105

SFU 3 unassigned credits in Science

**43-320\* The Fossil Record****3 credits**

The fossil record; ancient populations; applications of the fossil record; taxonomy and the species concept in paleontology; evolution of selected animals and plants.

Fall semester.

Prerequisite: 43-100, or permission of instructor

Lecture: 3 Laboratory: 3

Transferability:

UBC Geology 203 (1½ units)

SFU 3 unassigned credits in Science

**43-321\* Sedimentology****3 credits**

Introduction to sediments and sedimentary rocks; sediment transportation and deposition; diagenesis; composition, texture and structures; depositional environments; facies, correlation.

Spring semester.

Prerequisite: 43-100

Lecture: 3 Laboratory: 3

Transferability:

UBC Geology 206 (1½ units)

SFU 3 unassigned credits in Science

**43-370 Crystallography****3 credits**

Includes crystal symmetry, classes and systems; nomenclature and projection of crystals; crystal identification; space lattices; crystal chemistry and X-ray diffraction. Course essential to all geology majors and should be taken in second year of study. Chemistry 42-200 or 42-210 and Physics 45-200 or 45-210 are advisable but not prerequisites to this course.

Fall semester.

Prerequisite: Geology 43-100

Lecture: 3 x 2

Transferability:

UBC with 43-470 Geology 210

SFU 3 unassigned credits in Science

**43-470 Mineralogy****3 credits**

A second year specialized course for students continuing to more advanced studies in geology. Fundamentals of crystal chemistry as applied to minerals, physical and chemical properties of minerals, mineral genesis, determinative mineralogy, mineral classification.

On sufficient demand.

Prerequisite: 43-370

Laboratory: 3 x 2

Transferability:

UBC with 43-370 Geology 210

SFU 3 unassigned credits in Science

**GERMAN — SEE MODERN LANGUAGES**



**GRAPHIC AND COMMUNICATION ARTS****13-100 Basic Drawing 4 credits**

A commercial art-oriented drawing and sketching course. Trends change, but anatomy and perspective values remain constant; once a sound basic foundation is achieved, individuality will provide new ways to apply and present them. Emphasis on perspective and proportion, anatomy, and tone values.

Fall semester.  
Prerequisite: None  
Laboratory: 9  
No transfer credit

**13-110 Introduction to Commercial Illustration 3 credits**

An introduction to media, techniques, color. Emphasis on learning proper application and recognition of various materials used.

Fall semester.  
Prerequisite: None  
Laboratory: 6  
No transfer credit

**13-120 Introductory Graphics and Applied Design 4 credits**

All work begins with the premise that it has a message and a purpose. Mentally strip the subject to its most efficient essentials, proceed with a direct and simple interpretation, stress what is of greatest importance to achieve visual impact — thus the language of art is achieved. Course provides a foundation for, with an introduction to, the principles of graphic design. Also covers the natural co-ordination of lettering and design as an art form.

Fall semester.  
Prerequisite: None  
Laboratory: 2 x 1½ Seminar: 2 x 1 Lecture: 2 x ½  
No transfer credit

**13-121 History of Graphic Communications 3 credits**

An introductory survey of the history of graphic communications from the dawn of barter in the ancient world. Special emphasis on tracing man's endeavor to influence his fellow man through use of visual media.

Spring semester.  
Prerequisite: None  
Laboratory: 4  
No transfer credit

**13-122 Procedures in Advertising Art 3 credits**

Introduction to applied design, layout, typography analysis, mechanical makeup and materials/equipment evaluation. Suggested for the student interested in the Graphic and Communication Arts field.

Laboratory: 1  
Lecture: 2 x 1

**13-131 Lettering, Layout and Typography 1½ credits**

The significance of lettering and typography in visual communication. Students study lettering formation and classification, gaining skill in rendering techniques for layout and finished lettering. They develop and appreciation of lettering as an element in graphic design, and acquire knowledge of process lettering available to the designer and how it should be applied.

Fall semester.  
Prerequisite: None  
Lecture: 1 Laboratory: 2  
No transfer credit

**13-135 Introduction to Advertising 3 credits**

A general survey of advertising methods, media and principles: the function of color and design in layout as an effective visual tool in communication of ideas; advertising economics, campaigns, motivational research, sales promotion methods.

Fall semester.  
Prerequisite: None  
Lecture: 1 Laboratory: 2 Seminar: 1  
No transfer credit

**13-140 Fashion Illustration 3 credits**

An introduction to drawing and sketching using pencil, charcoal, and pastels. Emphasizes perspective and proportion, anatomy and tone values. Once a sound foundation is achieved, the student develops confidence and individuality in drawing.

On sufficient demand.  
Prerequisite: None  
Laboratory: 3 x 2  
No transfer credit

**13-150 Graphic Arts 1½ credits**

First of four semester courses on technical aspects of communication arts, particularly reproduction of design in print. A study of the nature of light, and its manipulation with lenses, filters, and emulsions. Students expose and process various types of photosensitive material as they explore the potential of the camera as a design tool, and acquire basic technical knowledge necessary to an understanding of photo-mechanical plate and stencil-making methods.

Fall semester.  
Prerequisite: None  
Lecture: 1 Laboratory: 2  
No transfer credit

**13-151 Technology of Graphic Communications 3 credits**

A study of processes applied and equipment used in graphic communications. Emphasizes the preparatory function of graphic arts and includes a practical approach to copy fitting, setting of body composition to display type using various exposure machines, strike-on, and photo-composition; layout organization, proper marking of proofs, and the general methods employed in conversion of type for press or camera.

Fall semester.  
Prerequisite: None  
Lecture: 2 Laboratory: 2  
No transfer credit

**13-152 Graphics in A/V Communications 1 credit**

Persons with training in illustration and design will become familiar with the finished product, the art skills involved, and the use of raw materials in visual arts.

On sufficient demand.  
Prerequisite: None  
Lecture: ½ x 1 Laboratory: 3  
No transfer credit

**13-154 Audio-Visual Technology 3 credits**

Designed to develop fundamental skills and techniques in the preparation and use of a wide variety of audio-visual materials: film, videotape, audiotape, graphics. Skills and techniques are applied to planned messages within an educational framework, based upon principles of communication theory.

On sufficient demand.  
Prerequisite: None  
Lecture: 2 Laboratory: 2 x 2  
No transfer Credit

**13-200 Drawing 4 credits**

A continuing study of the figure, proportion, perspective, and still-life drawing, using various media, free sketching, and finished art. Landscape and imaginative visuals interpreted in wash and ink rendering and water color. Emphasis on composition.

Spring semester.  
Prerequisite: 13-100  
Laboratory: 9  
No transfer credit

**13-210\* Commercial Illustration 3 credits**

Student learns to give messages, events, ideas, and values a visible form, and to apply the various mediums clearly in a minimum of time. He practices with pen and brush, line techniques, and color, to achieve discipline and control; and also experiments in use of textures, using a variety of papers and equipment.

Spring semester.  
Prerequisite: 13-110  
Laboratory: 6  
No transfer credit

**13-220\* Graphics and Applied Design 4 credits**

Enables student to progressively include more advanced elements of design, composition, layout, and fields of application. He learns to recognize and adapt the alphabet that fits the message.

Spring semester.  
Prerequisite: 13-120  
Laboratory: 2 x 1½ Lecture: 2 x ½ Seminar: 2 x 1  
No transfer credit

**13-222 Procedures in Advertising Art 3 credits**

This course will emphasize application of design, typography and mechanical makeup as applied to employment requirements in the Graphic and Communication Arts field.

Laboratory: 1 x 1  
Lecture: 2 x 1

**13-231\* Lettering, Layout and Typography 1½ credits**

Working knowledge of present-day typesetting trends. Classification of type faces and their application to effective communication. Body and display type as design elements, layout principles, and rendering techniques. Type markup and ordering, working drawing assembly.

Spring semester.  
Prerequisite: 13-131  
Lecture: 1 Laboratory: 2  
No transfer credit

**13-240\* Fashion Illustration 3 credits**

A continuing study of the figure, proportion and perspective, free sketching, and finished art. Includes wash and ink rendering and water color as applied to fashion illustration.

On sufficient demand.  
Prerequisite: 13-140  
Laboratory: 3 x 2  
No transfer credit

**13-250\* Graphic Arts (Technical) 1½ credits**

Fundamentals of letterpress and lithographic printing, line and halftone reproduction in print, color separation, four-color process, duplicate plate-making, and silk screen. Students produce line and halftone prints on a process camera and make multi-color silk screen runs with hand-made stencils.

Spring semester.  
Prerequisite: 13-150  
Corequisite: 13-220  
Lecture: 1 Laboratory: 2  
No transfer credit

**13-254\* Audio-Visual Communications 3 credits**

Advanced work with a variety of media, involving design, production, use, and evaluation of instructional programs for use by individuals and groups. Emphasis on production of materials, management of learning experiences, and the communication process.

On sufficient demand.  
Prerequisite: 13-154  
Lecture: 2 Laboratory: 3  
No transfer credit

**13-290 Applied Communications** See Communications 92-290

**13-300\* Intermediate Drawing and Painting** 4 credits

A continuing study of the draped and clothed figure: gesture in relation to the emotion; portrait studies in various media; commercial character and theme cartooning; caricature; townscape, landscape, and seascape interpreted in various media.

Fall semester.  
Prerequisite: 13-200  
Laboratory: 9  
No transfer credit

**13-310\* Illustration** 3 credits

Illustrates the value of sound preparatory work and how the craftman's skill co-ordinates with creativity to achieve an artistic objective. Emphasis on line and wash, opaques, fluoraographic, percentages, combination halftones, full color, combination of media. Commercial photo retouching for reproduction.

Fall semester.  
Prerequisite: 13-210  
Laboratory: 6  
No transfer credit

**13-320\* Intermediate Graphics and Applied Design** 4 credits

Student progresses in the use of typeset and recognizes how the flexibility and creative application of lettering adds to the correlation of copy and illustration. Further study and practice in technical design, overlay systems, color separation with art or camera, miscellaneous sales pieces, continuing creative experimentation in block printing, silk screen and air-brush techniques.

Fall semester.  
Prerequisite: 13-220  
Laboratory: 2 x 1½ Lecture: 2 x 1½ Seminar: 2 x 1  
No transfer credit

**13-340\* Fashion Illustration** 3 credits

Emphasizes the figure and garment; how the garment dictates the pose. The use of various media, interpreting fabrics and furs, accessories, feature, and pattern. Visuals of men's and children's fashions. Art for reproduction in line, halftone and color.

On sufficient demand.  
Prerequisite: 13-240  
Laboratory: 6  
No transfer credit

**13-350\* Graphic Arts** 1½ credits

Students become familiar with the College printing plant and do their own stripping, double printing, plate-making. Application of the photo-stencil to silk screen and use of photo-mechanical technique in design explored, including 3M Color Key, posterization, special halftone screens, line-from-tone and fluoraographic dropout. Students reproduce art work they have prepared expressly for the process involved.

Fall semester.  
Prerequisite: 13-250  
Lecture: 1 Laboratory: 2  
No transfer credit

**13-400\* Advanced Drawing and Painting** 4 credits

The student completes assignments involving previous subject areas in a professional manner, as examples of work to be incorporated in a portfolio in co-operation with other course needs.

Spring semester.  
Prerequisite: 13-300  
Laboratory: 9  
No transfer credit

**13-410\* Advanced Commercial Illustration** 3 credits

Continuation of commercial photo retouching for reproduction at a more advanced level. Examples of work involving all previous subject areas to be completed and incorporated into a prepared portfolio for employment interviews.

Spring semester.  
Prerequisite: 13-310  
Laboratory: 6  
No transfer credit

**13-420\* Advanced Graphics and Applied Design** 4 credits

Course is devoted to the professional completion, within deadlines, of a portfolio containing examples of design lettering, prepared mechanicals, creative application of block printing, silk screen and air-brush techniques, agency and retail advertising assignments, the portfolio to be presented at employment interviews.

Spring semester.  
Prerequisite: 13-320  
Laboratory: 2 x 1½ Lecture: 2 x ½ Seminar: 2 x 1  
No transfer credit

**13-440\* Fashion Illustration** 3 credits

Student develops a portfolio through assignments involving previous subject areas, presenting problems closely related to those in the field and completing the portfolio within deadlines on a professional basis for presentation at employment interviews.

On sufficient demand.  
Prerequisite: 13-340  
Laboratory: 6  
No transfer credit

**13-450\* Graphic Arts** 1½ credits

In this final portion of the course, the student applies his acquired graphic arts knowledge and skills to individual projects, which are determined in consultation with the instructor. Projects comprise designing, preparing working art and making stencils or printing plates for College-sponsored publicity pieces or self-advertising material. When practical, the student will assist in the printing. Items produced at each stage will be mounted for inclusion in the student's interview portfolio.

Spring semester  
Prerequisite: 13-350  
Corequisite: 13-420  
Lecture: 1 Laboratory: 2  
No transfer credits

## HISTORY

Douglas College history courses are designed to inform the student of the period or region specified in the course title and introduce and develop skills necessary for a full appreciation of history. These skills include research methods, comparison of historical interpretations, analysis of historical problems, and clear expression of ideas on historical topics.

If they plan to major in history they are advised to take the basic introductory course, History 21-100, early in their program, and consult the department in the University they intend to transfer to, to ascertain its requirements.

**21-100 The Meaning of History** 3 credits

This course reveals the prime roles of history — as a source of interest and enjoyment, and as a means toward greater understanding of the human condition. Examples are drawn from various periods of history and the works of outstanding historians. This course is strongly recommended for students planning to major in history at SFU.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Tutorial: 2  
Transferability:  
UBC 1½ units unassigned credit in History  
SFU History 100 (3)

**21-110 The Fraser Valley** 3 credits

A study of local history, with the interaction between man and the Fraser Valley environment as its central theme. Contributions from anthropology, geography, and ecology will give insight into the various factors involved.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Tutorial: 2  
Transferability:  
UBC 1½ units unassigned credits in History  
SFU History II 3 credits

**21-112 Quebec in Canada (formerly 21-280)** 3 credits

An historical inquiry into the evolution of French Canada from the British conquest to the present.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 1 Seminar: 3  
Transferability:  
UBC 1½ units unassigned credit in History  
SFU History 218 (3)

**21-113 Canada 1763-1867: A Century of Change** 3 credits

An examination of the basic conditions of British North America between the British conquest and Confederation. Stresses the internal and external political, social, and economic forces which shaped Canadian history.

Fall semester  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC with 21-114 History 135 (3)  
SFU History 218 (3)

**21-114 Canada 1867-1967: A Century of Change** 3 credits

Examines developments in Canada between 1867 and 1967. Emphasis on the examination of internal and external political, social and economic forces which shaped Canadian history, and the varying historical interpretations of these forces.

Spring semester.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC with 21-113 History 135 (3)  
SFU History 218 (3)

**21-120 Illusion and Disillusion: Europe 1900-1939** 3 credits

Examines the illusions which preceded World War I and the disappointed hopes and frustrations which led to World War II. Stresses political responses to the social and economic changes which characterized the period.

Fall semester.  
Prerequisite: None  
Lecture: 2 Tutorial: 2  
Transferability:  
UBC 1½ units unassigned credit in History  
SFU History 225 (3)

**21-121 Europe Since 1939** 3 credits

This course starts with World War II and traces the recovery of Europe from devastation to new prosperity. The division between East and West will be discussed, the new role of Europe in the world appraised, and

new patterns of political, cultural, social, and spiritual life examined.

Spring semester.

Prerequisite: None

Lecture: 2 x 2 Seminar: 2 x 1

Transferability:

UBC 1½ units in History

SFU History 225 (3)

**21-122 Problem Studies in German History 3 credits**

Examines problems drawn from various periods of German history: late medieval political disunity; Germans and Slavs; effect of the Reformation; the rise of Prussia; Germany and revolution; unification and empire; Nazism; Germany divided.

Offered on sufficient demand.

Prerequisite: None

Lecture: 2 Tutorial: 2

Transferability:

UBC 1½ units unassigned credit in History

SFU History 226 (3)

**21-130 20th-Century Russia and the Soviet Union 3 credits**

Covers the main lines of development and the problems of Imperial Russia and the Soviet Union from 1900 to 1964. The Marxist-Leninist doctrine of history and various interpretations of Russian and Soviet history will be discussed.

Offered on sufficient demand.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in History

SFU History 226 (3)

**21-140 Nation in Conflict: The U.S.A. in the 20th Century 3 credits**

Covers the historical roots and modern aspects of contemporary United States problems relating to race relations, the American democratic tradition, economic structure, and foreign policy. Focuses on origin, events, and effects.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 Tutorial: 2

Transferability:

UBC 1½ units unassigned credit in History

SFU History 213 (3)

**21-141 U.S.A. and the Far East: 1898 to the Present 3 credits**

Beginning with the geographical and traditional background of the Far East. Traces historical developments of diplomatic relations with the Far East. Special emphasis is placed on imperialism, revolution, and nationalism, from the Boxer Rebellion to the present.

Offered on sufficient demand.

Prerequisite: None

Lecture: 3 Seminar: 1

Transferability:

UBC 1½ units unassigned credit in History

SFU 3 unassigned credits in History

**21-142 The United States from Colonization to Nationhood 3 credits**

An historical and historiographical inquiry into growth of the United States from initial colonization to the presidency of Jefferson.

Fall semester.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in History

SFU History 212 (3)

**21-150 An Introduction to Modern Chinese History 3 credits**

Covers the Imperial era (1839-1911), transitional republic period (1912-1949), and the present communist stage. Emphasizes the post-1920 era, when the main theme of Chinese history was the struggle between nationalists and communists; and the war of resistance against Japanese aggression, culminating in the rise of Mao and establishment of the People's Republic.

Fall semester.

Prerequisite: None

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in History

SFU 3 unassigned credits in History

## HUMAN DEVELOPMENT

**33-100 Human Insight and Group Encounter 3 credits**

This course should increase awareness of one's feelings and experiences. It is designed to give participants an opportunity to experience one another in sensory awareness activities, in one-to-one encounters, and in group interaction. Some concepts which will give direction are: need orientation, sex roles, self-disclosure, body-mind congruency, and man's search for meaning.

Spring and fall semesters.

Prerequisite: Willingness to take some risks in self-disclosure and open, honest reactions.

Seminar: 1 x 3

No transfer credit

**33-110 Open Growth Group 0 credits**

Provides an opportunity to community members to share one another's experiences and feelings within the supportive framework of a caring group. Needs and wishes of members determine the direction of the group.

Spring and fall semesters.

Prerequisite: Desire to spend one evening a week in a sharing-learning experience.

Seminar: 1 x 3

No transfer credit

**33-130 Human Sexuality 1 credit**

Provides facts concerning human sexuality to enable the student to examine his attitudes in relation to social attitudes, practices, and beliefs in various communities and subcultures. Seminars and lectures focus on human anatomy and sexual responses, identification of sex roles, homosexuality, bisexuality, abortion, and contraception.

Spring and fall semesters.

Prerequisite: None

Lecture: 2

No transfer credit

**33-150 Theory and Practice in Becoming a College Counsellor Aide 2 credits**

A one-semester course for those interested in the "helping" professions: psychology, social work, counselling, teaching, etc. Emphasis on the development of communication skills pertinent to helping others, as well as on decision-making skills. Students should achieve the status of college counsellor aide at conclusion of the course. Field work required.

Spring and fall semesters.

Prerequisite: Students taking 33-150 may not take 33-151 for credit

Lecture: 1 Field experience: 2

No transfer credit

**33-151 Communication Skills in Community Work 1 credit**

A one-semester course for those interested in the helping professions. Emphasis on communication and decision-making skills. Field work encouraged.

Spring and fall semesters.

Prerequisite: Students taking 33-151 may not take 33-150 for credit.

Lecture: 1 Field experience: 2

No transfer credit

**33-250\* Practicum: Following Theory and Practice in Becoming A College Counsellor Aide 2 credits**

A one-semester course of practicum experience based on the theory of the prerequisite course.

Spring and fall semesters.

Prerequisite: 33-150 or 33-151

Laboratory: 2

No transfer credit

## HUMANITIES

**34-100 20th-Century Man 3 credits**

An interdisciplinary approach to world literature in the 20th century to provide an understanding of the 20th-century mind as reflected in works of modern writers. Introduces major issues relating to the human condition in the present century. Works of imaginative literature are used to illustrate problems such as alienation, evil, freedom, morality and science, myth-making, and dehumanization. Faculty members from psychology, history, and philosophy lecture on topics related to works discussed.

Prerequisite: None

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Humanities

SFU 3 unassigned credits in Arts

**34-110 European Thought and Culture 3 credits**

A study of major developments in European thought and culture from the later Roman Empire to the Renaissance. Examines problems in art, literature, philosophy, science, religion, and society, with emphasis on their inter-relationships. Shows how certain cultural and intellectual movements have shaped the modern mind. Humanities 34-100 provides a background for further studies in areas such as art, literature, philosophy, and religion.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Humanities

SFU 3 unassigned credits in Arts

**34-120 European Cultural Change 3 credits**

A study of major developments in European thought and culture from the Protestant Reformation to the present. Examines problems in art, literature, philosophy, science, religion, and society, with emphasis on their inter-relationships. Shows how certain cultural and intellectual movements have shaped the modern mind. Provides a background for further studies in areas such as art, literature, philosophy, science, religion, and society.

Prerequisite: None, but 34-110 recommended

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in History

SFU 3 unassigned credits in History

**34-130 Frontiers of Thought 3 credits**

An introductory appreciation of the frontiers of thought in the areas of: Man and His World (sciences); Man and His Society (social sciences); Man and His Mind (philosophical concepts). Specialized disciplines contributing to our understanding of these areas examined. Presentations are interdisciplinary and non-technical, and they assume no acquaintance with the subject matter. For those whose programs would not normally include these disciplines as well as those desiring a general survey course.

Prerequisite: None

Lecture: 4

No transfer credit

**34-140 20th-Century Man in Contemporary Literature 3 credits**

An interdisciplinary approach to contemporary world literature to provide some understanding of the 20th-century mind as reflected in works of contemporary writers. Introduces major issues relating to the human condition



in the 20th century. Faculty members from psychology, history, and philosophy lecture on topics related to works discussed.

Prerequisite: None

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Humanities

SFU 3 unassigned credits in Arts

## INTERIOR DESIGN

### 68-100 Drawing for Interior Design 3 credits

The use of pencil, ink, and water colors, or casein painting techniques, as applied to presentation of sketches. Basic drawing and sketching studied, with emphasis on perspective and proportion.

Prerequisite: None

Laboratory: 6

No transfer credit

### 68-101\* Introduction to Color 2 credits

Psychological and physical representation of color in relation to space, form, texture, and light. Includes theory and analysis of color with application to residential and commercial interior design.

Prerequisite: Complete color vision

Lecture: 2

No transfer credit

### 68-102 Italian and French Furniture 3 credits

History of furniture, beginning with Egyptian, Greek and Roman styles, followed by detailed study of Italian and French. Includes architectural settings, furniture and decorative motifs. Sketches of furniture and room settings required.

Prerequisite: None

Lecture: 3

No transfer credit

### 68-104 Materials of Design 1 credit

A study of materials (plaster, glass, metal, masonry, wood, plywood, etc.) in relation to the building industry. Emphasis on integrating these into the well-designed interior.

Prerequisite: None

Lecture: 1

No transfer credit

### 68-110 Theory of Design 2 credits

An analysis of man's physical and esthetic needs for his buildings. Introduction to the principles of design, (balance, harmony, rhythm), and how space is ordered and defined through the use of line, area, value, color, texture, and light.

Prerequisite: None

Lecture: 3

No transfer credit

### 68-120 Drafting and Perspective 3 credits

Drafting in pencil, pen and ink. A study of three-dimensional objects and interior spaces to be represented in two and three dimensions on paper.

Prerequisite: None

Laboratory: 9

No transfer credit

### 68-200\* Drawing for Interior Design 1 credit

Explores the use of various common and useful wet and dry media to provide insight and skills for interior-design-presentation renderings and illustrations. Stresses drawing methods appropriate to various media.

Prerequisite: 68-100

Laboratory: 3

No transfer credit

### 68-203 English and American Furniture 3 credits

History of English and American furniture styles from Gothic, renaissance, and Neoclassic to Modern. Includes architectural settings as well as furniture and decorative motifs. Sketches of furniture and room settings required.

Prerequisite: None

Lecture: 3

No transfer credit

### 68-205 Materials for Interior Design 2 credits

A study of applied or "decorative" materials specified for commercial and residential interiors. The properties and care of natural and synthetic fibres examined with reference to the manufacture of carpets, fabrics, and wall coverings.

Prerequisite: None

Lecture: 2

No transfer credit

### 68-210\* Theory of Residential Design 2 credits

The theory of residential design in the contemporary and traditional architecture forms. An analysis of interior spaces, esthetics, and function, as well as furniture requirements and planning. Includes a study of architectural concepts and works of Frank Lloyd Wright and Walter Gropius.

Prerequisite: 68-110

Corequisite: 68-220

Lecture: 3

No transfer credit

### 68-220\* Residential Interior Design 3 credits

Contemporary and traditional residential interior design, including space planning, furniture layout and selection, design in elevation drawing, selec-

tion of materials, and perspective drawing and rendering. Drafting and design projects include a two-bedroom apartment, a contemporary and a traditional house, and other related domestic interiors.

Prerequisite: 68-120

Corequisite: 68-210

Laboratory: 9

No transfer credit

### 68-221\* Rendering and Presentation 1 credit

Techniques, methods, and materials used by interior designers for rendering and presentation of interior design work. Rendering of perspective drawings related to Residential Interior Design 68-220, as well as to sketches from magazines.

Prerequisite: 68-120

Laboratory: 3

No transfer credit

### 68-310\* Theory of Office Interior Design 2 credits

Basic theory of commercial interior design, including office planning, public lounge areas, and small commercial eating facilities. A study of interior space regarding esthetics and function, as well as space layout and furniture requirements. Architectural concepts and work of Ludwig Mies Vander Rohe and Le Corbusier. Students visit various office installations.

Prerequisite: 68-210

Corequisite: 68-320

Lecture: 2

No transfer credit

### 68-320\* Office Interior Design 3 credits

Practical problems in designing commercial office interiors. Solutions may be presented in the form of floor plans, furniture layout and selection, design in elevation drawing, selection of materials, perspective drawing, rendering, and photographing scale models. Drafting and design work consists of such projects as an apartment lobby, a travel agency, a landscaped office, and a daytime restaurant. Students visit furniture factories and make drawings of custom office units for factory fabrication.

Prerequisite: 68-220

Corequisite: 68-310

No transfer credit

### 68-321\* Graphic Presentation 1 credit

A study of techniques, methods, and materials used by interior designers for rendering and presentation of interior design work. Rendering of perspective drawings related to Commercial Interior Design 68-320, as well as to sketches from magazines.

Prerequisite: 68-221

Laboratory: 3

No transfer credit

### 68-380\* Interior Design Work Experience 1-5 credits

As part of the third-semester interior design program, student placement work experience may be in furniture, drapery, carpet, paint, or wallpaper departments of retail outlets or design studios. Credits vary according to total hours of employment.

Prerequisite: Completion of one year of Interior Design Program

Seminar: 1 Field experience: TBA

No transfer credit

### 68-405\* Projects in Interior Design 1 credit

Practical know-how and written specifications for actual ordering and installation of products. Includes specifications, estimating and installation of drapery, upholstery, carpeting, wallpaper, and paint. Students also analyze the Canadian furnishing market.

Prerequisite: Completion of three semesters of Interior Design.

Lecture: 1 Laboratory: 2

No transfer credit

### 68-406\* Special Projects in Interior Design 2 credits

Short-term projects in commercial or residential design. Students make quick presentation of projects: e.g., doctor's office, theatre lobby, showroom, display, board room, public lounge, etc.

Prerequisite: Completion of three semesters of Interior Design

Laboratory: 6

No transfer credit

### 68-410\* Theory of Hotel-Motel Interior Design 2 credits

Emphasis on design of hotel and motel sleeping accommodations, registration desk, public lounges, restaurants, kitchens, and cocktail lounges. An analysis of interior spaces regarding esthetics and function, as well as space layout and furniture requirements. Students analyze contemporary interior spaces, visiting local commercial offices and hotels.

Prerequisite: 68-310

Corequisite: 68-420

Lecture: 3

No transfer credit

### 68-420\* Hotel-Motel Interior Design 3 credits

Practical problems in designing hotel-motel interiors involving assumed conditions. Solutions may be presented in the form of space planning, furniture layout and selection, design in elevation drawing, selection of materials, and perspective drawing and rendering. Drafting and design work consists of such projects as a hotel-motel suite, public lounge, restaurant, kitchen, and cocktail lounge. Students detail custom hotel units for factory fabrication.

Prerequisite: 68-320

Corequisite: 68-410

Laboratory: 9

No transfer credit

**68-421\* Graphic Presentation****1 credit**

A continuation of Interior Design 68-321, studying techniques, methods, and materials used by interior designers for rendering and presentation of interior design work. Rendering consists of perspective drawings and graphics related to Commercial Interior Design 68-420.

Prerequisite: 68-321  
Laboratory: 3  
No transfer credit

**LAW ENFORCEMENT/CORRECTIONS****62-101 Probation and Parole****3 credits**

Origins and philosophy of probation and parole and their roles in the law enforcement process. Developments such as "half-way houses," "day parole," and "work releases" are studied. Examines controversial programs such as preventive detention, conjugal visits, and mandatory parole.

Prerequisite: None  
Lecture: 4  
No transfer credit

**62-102 Criminal Law and the Offender****3 credits**

A study of the division of responsibility between federal and provincial governments as set out in the BNA Act with respect to criminal law and administration of justice. Criminal Code of Canada, Narcotic Control Act, Food and Drug Act, and other federal and provincial statutes are studied. The Canadian court system is examined with emphasis on the B.C. structure.

Prerequisite: None  
Lecture: 3  
No transfer credit

**62-103 Community Relations****3 credits**

This course furthers the understanding, attitudes, skills, and knowledge of members of police forces or correctional agencies concerning their leadership roles in the community; also their understanding of ways to communicate the functions of law enforcement or correctional agencies to citizenry, and to explore methods of coping with persons under stress in today's complex environment. Techniques discussed that may be used to allay suspicions and hostilities which uniformed enforcement officers and certain members of sub-groups of society are said to have toward each other.

Prerequisite: None  
Lecture:  
No transfer credit

**62-104 Rehabilitation and the Prison Community****3 credits**

A study of sociological processes in the prison community. Primarily for persons employed in correctional areas or those aiming for a career in corrections. Inmate and staff communities are studied individually and as they interact.

Prerequisite: None  
Lecture: 3  
No transfer credit

**62-106 Organization of Police and Correctional Services****3 credits**

The evolving role of police in crime prevention and protection of life and property. Examines the organization of private, provincial, and federal correctional agencies; probation; institutions; parole; and rehabilitation of the offender. The reality of law enforcement and corrections is studied and compared with certain popular misconceptions of the career area.

Prerequisite: None  
Lecture: 4  
No transfer credit

**62-107 Community Agencies****3 credits**

A study of the development of institutions designed to meet problems of urban-industrial society, with particular reference to Lower Fraser Valley and Greater Vancouver areas. Typical federal, provincial, municipal, and private agencies are examined, as well as problems faced by agencies and how to get service from them.

Prerequisite: None  
Lecture: 3  
No transfer credit

**62-108 Crime Causation****3 credits**

Describes several types or levels of theory concerning causes of crime and delinquency: cultural, sociological, interpersonal, and individual. An attempt is made toward integration of theory and practical application.

Prerequisite: None  
Lecture: 3  
No transfer credit

**62-140 Interviewing****3 credits**

The dynamics of interpersonal relationships which may be incorporated into interviewing situations: verbal and non-verbal communication; feedback; barriers to effective interviewing; structures and functions of various types of interviews. A framework that can be used to evaluate the effectiveness of interviewing is provided so that students can more accurately interpret interviewing occurrences. Practical classroom experience is gained through involvement in role-playing, small group discussion, case analysis, and actual interviewing.

Prerequisite: None  
Lecture: 3  
No transfer credit

**62-380\* Law Enforcement/Corrections Practicum****3 credits**

This course provides the student with a learning experience in the context of job experience with various agencies: police, corrections, probation, judicial.

Prerequisite: Second-year standing in Law Enforcement-Corrections program. Corequisite: Enrolment in the 3rd or 4th semester of the Law Enforcement/Corrections program.

Seminar: 1 Field experience: 8  
No transfer credit

**LITERATURE — SEE ENGLISH****LITERATURE OF THE THEATRE — SEE ENGLISH****MARKETING****84-100 Retail Merchandising****3 credits**

Covers merchandising principles, practices, and processes in relation to the total marketing process. Includes the consumer — his importance and behavior, buying methods, sources of supply, selling, sales promotion methods and media, inventory control, human relations, advertising and display; also laboratory workshop, seminar sessions, individual projects and the practical application of theories studied.

Spring semester.  
Prerequisite: None  
Lecture: 2 Seminar: 1 Student-directed learning: 1  
No transfer credit

**84-120 Introduction to Marketing****3 credits**

A descriptive survey of basic Canadian marketing functions and institutions such as distribution channels, merchandising, and sales promotion of products for industrial and consumers markets.

Fall semester.  
Prerequisite: None  
Lecture: 2 x 1 Seminar: 2 x 1  
No transfer credit

**84-210 Dynamic Selling and Effective Verbal Communications****3 credits**

An intensive study of techniques used in selling goods and services, with the opportunity of practising some of them. Includes consumer behavior and aspects of psychology in the process of selling, as well as methods of preparing and delivering several types of speeches.

Spring semester.  
Prerequisite: None  
Lecture: 2 Seminar: 1  
No transfer credit

**84-290\* Marketing Management****3 credits**

An advanced, detailed study of market planning, market research, practices of middlemen and their role in the marketing process. Problems inherent in wholesaling, product mix, sales promotion, investment, warehousing, and shipping are covered, along with case studies.

Spring semester.  
Prerequisite: 84-100 or 84-120  
Lecture: 2 Seminar: 1 Student-directed learning: 1  
No transfer credit

**84-310\* Sales Workshop****1½ credits**

A simulation of the selling and distribution of merchandise, in which the students become personally involved in the decision-making process necessary for successful business operation.

Fall semester.  
Prerequisite: Third-semester standing in any business program.  
Seminar: 2  
No transfer credit

**84-380\* Work-Experience Preparation****2 credits**

A preparatory program to be taken prior to 84-381. Job instructions and companies' policies discussed. Field trips to work stations. Classes three hours a day, thrice weekly for five weeks.

Fall semester.  
Prerequisite: 84-100, 84-210 and second-year standing  
Hours per week: 9  
No transfer credit

**84-381\* Merchandising "Work-Experience"****1-10 credits**

Includes 300-400 hours of paid work in a retail outlet under College supervision.

Fall, spring and summer.  
Prerequisite: 84-100, permission of instructor and second-year standing.  
No transfer credit

**84-382\* Merchandising Work-Experience Seminar****3 credits**

Students meet once weekly to discuss experiences of the course.

Fall semester.  
Prerequisite: 84-100  
Corequisite: 84-381  
Seminar: 3  
No transfer credit

**84-383\* Sales Practicum****1½ credits**

An on-the-job training session which includes 100 or more hours of actual selling experience. Each student is responsible for finding his own work station.

Fall, spring and summer.  
Prerequisite: 84-210 and permission of the Business Department.  
Field experience: 100 hours per semester  
No transfer credit

**84-410\* Sales Management 3 credits**

A comprehensive course in sales managerial principles and methods. The allocation of priorities to the firm's sales objectives and responsibilities, the forming of sales policy, the tasks of planning, organizing, staffing and controlling the work of the field sales force.

Spring semester.  
Prerequisite: Third-semester standing or permission of Instructor  
Lecture: 4  
No transfer credit

**84-490\* Planning and Supervision 3 credits**

This advanced course in retail merchandising takes advantage of work done during work-experience program. Students study and practice methods of planning, budgeting, and programming resources. Extensive use of case studies and assignments to simulate business conditions.

Spring semester.  
Prerequisite: 84-100, 84-210, 84-381  
Lecture: 1 x 2 Seminar: 1 x 2 Student-directed learning: 1  
No transfer credit

**MATHEMATICS**

Many university departments require credits in mathematics at the first or second year level for admission to certain upper-division courses. Students are therefore urged to consult the appropriate calendars for details of specific mathematics requirements.

Students entering Douglas may pursue several possible routes, depending on their background and major field of interest:

- 1) Students with B.C. Mathematics 12 who wish to enter UBC to take mathematics, science, secondary education, applied science, or forestry, should take:
  - Semester I ..... 44-120
  - Semester II ..... 44-220 and 44-131

Some schools (such as commerce, medicine, dentistry, and nursing) require Mathematics 44-112 and 44-212 or Mathematics 44-120, 44-220 and 44-131 or Mathematics 44-212 and 44-140.

Mathematics or science majors should continue as follows:  
Semester III ..... 44-320 and 44-231  
Semester IV ..... 44-420 and 44-331

These courses also satisfy prerequisites at SFU and UVic.

SFU offers a one semester calculus course, Mathematics 150-3, which is required in some social sciences; the Douglas equivalent is 44-140.

- 2) Students with B.C. Mathematics 11 who require the above courses should take Mathematics 44-112, which is a prerequisite to the calculus (Math 44-120).
- 3) Students with less than B.C. Mathematics 11 should consider enrolling in Mathematics 44-101.
- 4) Students transferring to the Faculty of Commerce and Business Administration at UBC should, in addition to the courses listed in paragraph 1, take the following courses:
  - Semester III ..... Mathematics 44-350
  - Semester IV ..... Mathematics 44-450

**44-100 Mathematics: Reality or Unreality 3 credits**

Designed to give the liberal arts student an insight into the use of mathematics and the role of mathematicians in the development of models of widely differing real life situations.

Offered on sufficient demand.  
Prerequisite: None  
Lecture: 2 Seminar: 1  
Transferability:  
UBC with 44-200 3 units unassigned credit in Mathematics (no credit in Science)  
SFU 3 unassigned credits in Mathematics

**44-101 Basic Mathematics 3 credits**

Mathematical skills are improved by reviewing arithmetic and then studying algebraic and trigonometric procedures. Topics include integers, rational expressions, radical expressions, linear and quadratic expressions, graphing, and the trigonometry of right-angled triangles.

Spring, summer and fall semesters.  
Prerequisite: None  
Tutorial: 3 x 1  
No transfer credit

**44-112\* College Mathematics 3 credits**

Students with Math 11 are prepared in one semester to enter courses requiring Math 12 or equivalent. Others see this course with 44-212 as a "non-Science credit" applicable to certain fields of study at UBC which do not require calculus. Includes algebra, geometry, and trigonometry. Serves as prerequisite for Math 131 (Algebra) and 120 (Calculus).

Spring, summer and fall semesters.  
Prerequisite: B.C. Math 11  
Lecture: 3 x 1 Tutorial: 1 x 1  
Transferability:  
UBC with 44-212 Mathematics 130  
SFU 3 unassigned credits in Mathematics

**44-120\* Calculus 3 credits**

Introduction to differential and integral calculus. Techniques for handling rational functions. Applications.

Spring and fall semesters.  
Prerequisite: B.C. Math 12 or equivalent, or permission of instructor  
Lecture: 3 Tutorial: 1  
Transferability:  
UBC with 44-200 Math 100  
SFU Math 151

**44-130\* Mathematics in the Making 3 credits**

An introduction to sets, functions, operations; these concepts applied to development of number systems (integers, rationals, real and complex numbers). Introduces the use of complex numbers.

Offered on sufficient demand.  
Prerequisite: B.C. Math 11 or equivalent, or permission of instructor  
Lecture: 3 Tutorial: 1  
Transferability:  
UBC 1½ units unassigned credit in Math  
SFU 3 unassigned credits in Math

**44-131\* Vectors and Matrices 2 credits**

Elementary introduction to vector spaces, matrices, and determinants; applications to the solution of simultaneous equations. This course, with calculus, is taken by students who wish to attend UBC Science or Applied Science or Mathematics.

Spring semester.  
Prerequisite: B.C. Math 12 or equivalent, or permission of instructor  
Lecture: 2  
Transferability:  
UBC Math 121  
SFU with 44-231 Math 232

**44-140\* Elements of Calculus with Applications 3 credits**

A brief introduction to differential and integral calculus with heavy emphasis on application in fields of social and biological sciences and commerce. Coupled with Mathematics 44-212, this course provides a broad introduction to uses of mathematics in aforementioned fields.

Offered in the spring and on sufficient demand in the fall.  
Prerequisite: B.C. Math 11 or equivalent  
Lecture: 4  
Transferability:  
UBC with 44-212, Math 130  
SFU Mathematics 150 (3 credits)

**44-212\* Finite Mathematics 3 credits**

The study of counting processes, including mathematical induction, binomial theorem, elementary sequences and series, combinatorics, elementary probability theory, and linear programming.

Spring and fall semesters.  
Prerequisite: B.C. Math 11  
Lecture: 3 Tutorial: 1  
Transferability:  
UBC with 44-112 or 44-120 or 44-140, Math 130  
SFU Math 100

**44-220\* Calculus 3 credits**

Continues 44-120 to cover transcendental functions, and introduces the analysis of functions of one variable. Completes requirements for university-transfer credit in first-year calculus.

Offered in summer semester and on sufficient demand in the fall.  
Prerequisite: 44-120 or equivalent  
Lecture: 3 Tutorial: 1  
Transferability:  
UBC with 44-120 Math 100  
SFU Math 152

**44-231\* Linear Algebra 2 credits**

Continues Mathematics 44-131, presenting vector spaces other than  $R^n$  and developing the idea of an abstract vector space. Linear transformations and their eigenvectors. Isomorphism.

Prerequisite: 44-131 (students having credit for 44-132 will not receive credit for 44-231)  
Lecture: 2 x 1  
Transferability:  
UBC with 44-331 Math 221  
SFU with 44-131 Math 232

**44-320\* Calculus 3 credits**

Third semester of the calculus includes complex numbers, differential equations, sequences and series, and functions of several variables.

Fall semester.  
Prerequisite: 44-220  
Lecture: 3 Tutorial: 1 x 1  
Transferability:  
UBC with 44-420 Math 200  
SFU 3 unassigned credits in Math. SFU has agreed to waive Math 253 as a prerequisite to further mathematics for students having 44-320. (Also see 44-420)

**44-331\* Linear Algebra 2 credits**

An introduction to inner product spaces and linear operators with applications from the physical sciences.

Spring semester.  
Prerequisite: 44-231  
Lecture: 2  
Transferability:  
UBC with 44-231 Math 221  
SFU 2 unassigned credits in Math

**44-350\* Quantitative Methods 3 credits**

Applications of mathematics to business, with emphasis on linear models. Primarily for prospective commerce students.

Fall semester.  
Prerequisites: 44-212 and 44-140 (preferred); other possible prerequisites: 44-220 and 44-131, or 44-112 and 44-212, or 44-212 and 44-120  
Lecture: 3  
Transferability:  
UBC with 44-450 Commerce 110  
SFU to be determined



**44-420\* Calculus 3 credits**

A presentation of multiple integrals, vector-valued functions (curves), and vector calculus (potential theory).

Spring semester.

Prerequisite: 44-320

Lecture: 3 Tutorial: 1

Transferability:

UBC with 44-320 Math 200

SFU with 44-320, Math 253 and 2 unassigned credits in Math (see also 44-320)

**44-450\* Quantitative Methods 3 credits**

Applications of mathematics to business, with emphasis on non-linear models. Primarily for prospective commerce students.

Spring semester.

Prerequisite: 44-350 or permission of instructor

Lecture: 2 Tutorial: 2

Transferability:

UBC with 44-350 Commerce 110

SFU to be determined

**MODERN LANGUAGES**

*Courses offered are mostly two semesters. The second semester's work should be taken immediately after the first, otherwise much continuity will be lost. There may be difficulty in obtaining transfer credit for a single semester of a course that is designed as a two-semester unit. Where instructor's permission is required to take a course, it should be obtained in writing before registration.*

*All language courses are transferable to SFU with unassigned credit, but all students will be tested and placed in the appropriate course.*

**26-100 Basic Russian 3 credits**

First half of a two-semester sequence for beginners with no knowledge of Russian; includes conversation, grammar, and basic skills of reading and writing the language. Modern Languages 26-200 should be taken immediately after 26-100.

Fall semester.

Prerequisite: None

Lecture: 3 Seminar: 1

Transferability:

UBC with 26-200 Russian 100 (3)

SFU 3 unassigned credits in Modern Languages

**26-120 Basic German 3 credits**

For those with little or no experience in the language.

Fall semester.

Prerequisite: None

Seminar: 4

Transferability:

UBC with 26-220 German 100 (3)

SFU 3 unassigned credits in Modern Languages

**26-121\* German Language 3 credits**

Language and introductory literature for those with secondary-school German or a German background.

Fall semester.

Prerequisite: 26-120, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-221 German 200 (3)

SFU 3 unassigned credits in Modern Languages

**26-140\* Basic French 3 credits**

First half of a two-semester sequence to enable students to express themselves in both basic conversational and written French through an intensive oral and written approach.

Fall and summer semesters.

Prerequisite: Up to grade 11 French or equivalent

Seminar: 4

Transferability:

UBC with 26-240 French 110 (3) or 100 (3)

SFU 3 unassigned credits in Modern Languages

**26-141\* French Language 3 credits**

First half of a two-semester sequence providing exercises in spoken and written French. Introduces better-known modern French writers and some elements of French-Canadian life and letters.

Fall semester.

Prerequisite: French 12, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-241 French 120 (3)

SFU 3 unassigned credits in Modern Languages

**26-160 Basic Spanish 3 credits**

An intensive oral and written approach to both basic conversational and written Spanish. Introduces the history, culture, and society of the Hispanic World.

Fall semester.

Prerequisite: None

Seminar: 4

Transferability:

UBC with 26-260 Spanish 100 (3)

SFU 3 unassigned credits in Modern Languages

**26-180 Language, Mind, and Communication 3 credits**

An interdisciplinary introduction to linguistics, approaching the study of language through disciplines such as psychology (acquisition, perception,

meaning); sociology and anthropology (culture, society, language); education (learning and language); and communication (mass media and influencing people with language).

Offered on sufficient demand.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC with 26-280 Linguistics 100 (3)

SFU Linguistics 100

**26-200\* Basic Russian 3 credits**

A continuation of a two-semester course for beginners providing conversation, grammar, and the basic skills of reading and writing the language.

Spring semester.

Prerequisite: 26-100

Seminar: 4

Transferability:

UBC with 26-100 Russian 100 (3)

SFU 3 unassigned credits in Modern Languages

**26-220\* Basic German 3 credits**

Second semester of 26-120. Students with little or no experience in the language continue to develop basic speaking and reading skills, including vocabulary, idioms, and grammar.

Spring semester.

Prerequisite: 26-120

Seminar: 4

Transferability:

UBC with 26-120 German 100 (3)

SFU 3 unassigned credits in Modern Languages

**26-221\* German Language 3 credits**

A course in language and introductory literature for those with secondary-school German or a German background.

Spring semester.

Prerequisite: 26-121

Seminar: 4

Transferability:

UBC with 26-121 German 200 (3 units)

SFU 3 unassigned units in Modern Languages

**26-240\* Basic French 3 credits**

This course, sequential to 26-140, offers an intensive oral and written approach to both basic conversational and written French.

Spring and summer semesters.

Prerequisite: 26-140, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-140 French 110 (3) or 100 (3)

SFU 3 unassigned credits in Modern Languages

**26-241\* French Language 3 credits**

This course, sequential to 26-141, offers a good grounding in both written and spoken French, and introduces some of the best-known modern French writers.

Spring semester.

Prerequisite: 26-141, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-141 French 120 (3)

SFU 3 unassigned credits in Modern Languages

**26-260\* Basic Spanish 3 credits**

An intensive oral and written approach to both basic conversational and written Spanish. Introduces the history, culture and society of the Hispanic World.

Spring semester.

Prerequisite: 26-160, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-160 Spanish 100 (3)

SFU 3 unassigned credits in Modern Languages

**26-300\* Intermediate Russian 3 credits**

Will increase student's knowledge of Russian grammar, idioms, syntax, vocabulary. Aspects of Soviet everyday life are studied.

Offered on sufficient demand.

Prerequisite: 26-200

Seminar: 4

Transferability:

UBC with 26-400, 3 units unassigned credit in Russian

SFU 3 unassigned credits in Modern Languages

**26-321\* Modern German Literature 3 credits**

A study of the development of modern German literature from 1880 to 1945, with reference to social and political changes of the time.

Individual Guided Studies.

Prerequisite: 26-221, or fluency in the language.

Seminar: 4

Transferability:

UBC with 26-421 German 310 (3)

SFU 3 unassigned credits in Modern Languages

**26-341\* French Language and Style 3 credits**

Designed to reinforce oral and written skills, this course contains strong elements of recognized French and French-Canadian literature. Seminars conducted in French.

Fall semester.

Prerequisite: 26-241, or permission of instructor

Seminar: 4

Transferability:  
UBC with 26-441 3 units unassigned in French  
SFU 3 unassigned credits in Modern Languages

**26-360\* Spanish Language 3 credits**

Amplifies knowledge acquired in 26-160 and 26-260, utilizing contemporary excerpts of leading Spanish and Latin American newspapers, magazines, and, to a lesser extent, literature. Emphasis on culture, conversation, and written composition.

Individual Guided Studies.

Prerequisite: 26-260, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-460 Spanish 200 (3)  
SFU 3 unassigned credits in Modern Languages

**26-400\* Intermediate Russian 3 credits**

A continuation of 26-300. Will increase student's knowledge of Russian grammar, idioms, syntax, and vocabulary. Aspects of everyday Soviet life are studied.

Offered on sufficient demand.

Prerequisite: 26-300

Seminar: 4

Transferability:

UBC with 26-300 3 units unassigned credit in Russian  
SFU 3 unassigned credits in Modern Languages

**26-421\* Modern German Literature 3 credits**

Social and political changes since 1945 are studied through the eyes of selected German writers.

Individual Guided Studies.

Prerequisite: 26-341 or 26-321 or fluency in the language

Seminar: 4

Transferability:

UBC with 26-321 German 310 (3)  
SFU 3 unassigned credits in Modern Languages

**26-441\* French Language and Style 3 credits**

Designed primarily to reinforce oral and written skills, this course contains strong elements of recognized French and French-Canadian literature. Contemporary French writings will be used to develop these skills. Seminars conducted in French. Students proceeding to further work in French are given enrichment in both literature and grammar.

Spring semester.

Prerequisite: 26-341 or equivalent, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-341 3 units unassigned credit in French  
SFU 3 unassigned credits in Modern Languages

**26-460\* Spanish Language 3 credits**

Amplifies knowledge acquired in 26-160, 26-260, and 26-360, utilizing contemporary excerpts of leading Spanish and Latin American newspapers, magazines, and, to a lesser extent, literature. Emphasis on culture, conversation, and written composition.

Individual Guided Studies.

Prerequisite: 26-360

Seminar: 4

Transferability:

UBC with 26-360 Spanish 200 (3)  
SFU 3 unassigned credits in Modern Languages

## MUSIC

Douglas College provides part of the training for students intending to become school music teachers. There are two routes:

For music majors, a full-time music program is designed for transfer to music departments of various Canadian universities after two years at Douglas. The B.Mus. degree is completed at university and may be followed by faculty of education teaching training. At present, students are accepted at Douglas as majors in band, chorus, and string orchestra.

Note: UBC transfer information.

The following are electives transferable to the Faculty of Arts and may be taken by any student with the prerequisites: 102, 103, 110, 120, 210, 220, 310 and 410.

**12-100 Basic Theory 3 credits**

Learn to read music and master musical rudiments as far as the first elements of harmony. Knowledge of music not required. Course is required of B.Mus. students not ready to take Music 12-110. Optional for B.Ed. students intending to major in music education.

Fall and summer semesters.

Prerequisite: None

Lecture: 3 Tutorial: 1

Transferability:

UBC 1½ units Music Education 101 for majors in music education  
Not transferable to Faculty of Music

**12-102 Music Appreciation: 400-1750 3 credits**

A survey of Western music from earliest beginnings in Gregorian chant to end of the Baroque, i.e. 400-1750. Historical developments studied through gramophone recordings, supplemented by live performances, with special attention to instruments.

Fall and spring semesters.

Prerequisite: None

Lecture: 3 x 1

Transferability:

UBC with 12-103 Music 320 (3 units) transferable to Faculty of Arts

**12-103 Music Appreciation: 1750 to Present 3 credits**

A survey of Western music from pre-classical era to present. Historical developments studied through recordings, supplemented by live performances, with special attention to instruments. A suitable elective for general art students but not available to music majors.

Fall and spring semesters.

Prerequisite: None

Lecture: 3 x 1

Transferability:

UBC with 12-102 Music 320 (3 units) transferable to Faculty of Arts

**12-105\* Ensemble — Band 1 credit**

Problems in the performance of ensemble music, with emphasis on rehearsal techniques and conductor-performer relationship.

Fall and spring semesters.

Prerequisite: Royal Conservatory of Music, Toronto, grade 6 or equivalent, or permission of instructor

Laboratory: 6

Transferability:

UBC with 12-205 Music 152

**12-106\* College Chorus 1 credit**

Members study and perform works from all periods requiring chorus of large numbers. Familiarization with conductor-performer relationship. Exposure to problems in performance of choral music, with emphasis on rehearsal techniques. This is lab for Music 12-151.

Fall and spring semesters.

Prerequisite: None

Corequisite: For music majors 12-151; audition required from non-majors

Laboratory: 3 x 2

Transferability:

UBC with 12-200 Music 153 or 154

**12-110\* Theory of Western Music: 400-1750 3 credits**

An intensive study of elements of Western music from c. 400-1500, especially rhythm and pitch; special attention to reading of scores in lecture-room performance, with emphasis on aural comprehension of music in up to three and four parts in simple and compound metres.

Fall semester.

Prerequisite: Obligatory for university-transfer program in music; permission of instructor required for others wishing to take course as elective.

Laboratory: 5

Transferability:

UBC with 12-210 Music 100

**12-120\* History of Western Music: Greece to 1500 3 credits**

A broad survey of developments in style and form, from earliest-known musical expression in the West to the time of Ockeghem. Emphasis on score reading and analysis of representative music.

Fall semester.

Prerequisite: Obligatory for university-transfer program in music; permission of instructor required for others wishing to take course as elective.

Lecture: 3

Transferability:

UBC with 12-200 Music 120

**12-130 Class Woodwinds 2 credits**

A study (by performance) of the flute, oboe, clarinet, saxophone, and bassoon in preparation for effective teaching of instrumental music. Familiarization with peculiarities, tone production, and fingering techniques of all woodwind instruments (using both treble and bass clefs).

Fall and spring semesters.

Prerequisite: None

Laboratory: 3

Transferability:

UBC 1 unit Music 142

**12-131 Class Brass 2 credits**

Techniques for effective teaching of instrumental music. Familiarization with peculiarities, tone production, and fingering techniques of all brass instruments (using both treble and bass clefs).

Fall and spring semesters.

Prerequisite: None

Laboratory: 3

Transferability:

UBC with 12-132 Music 141

**12-132 Class Percussion 2 credits**

A study (by performance) of the snare drum, bass drum, cymbals, tympani, mallet, and Latin American rhythm instruments, in preparation for effective teaching of instrumental music. Familiarization with tone production, maintenance, and adjustment of traditional percussion instruments.

Fall and spring semesters.

Prerequisite: None

Laboratory: 3

Transferability:

UBC with 12-131 Music 141

**12-133 Sight Singing 1 credit**

Introduction to sight singing through so-called "movable do" system. Singing melodies in two basic clefs. Singing of all major, minor, and perfect intervals and of various rhythmic patterns. Also singing of melodies which include rudimentary modulations.

Fall and spring semesters.

Prerequisite: None

Laboratory: 3

Transferability:

UBC ½ unit unassigned credit in Music  
SFU No transfer credit

- 12-140 Piano (Secondary) 1 credit**  
Piano repertoire, technical requirements, aural training, sight reading, accompaniment, improvisation, and keyboard harmony. Available only to majors in B.Mus. (general) program.  
Fall and spring semesters.  
Prerequisite: None  
Tutorial: ½ hr.  
Transferability:  
UBC with 12-240 Music 144 (Piano)
- 12-150\* Music Concentration (Instrumental) 2 credits**  
Tone production, technique, transposition, repertoire, solo performance, ensemble playing, style and development. Open to music majors only in B.Mus. general program.  
Fall and spring semesters.  
Prerequisite: Royal Conservatory of Music, Toronto, grade 6 standing on instrument.  
Corequisite: 12-105  
Tutorial: 1  
Transferability:  
UBC with 12-250 Music 145 (Instrumental)
- 12-151\* Music Concentration (Vocal) 2 credits**  
Vocal tone production, technique, English diction and vocal instruction, techniques of training voices in choruses.  
Fall and spring semesters.  
Prerequisite: Royal Conservatory of Music, Toronto, grade 6 or equivalent on voice or piano  
Corequisite: 12-106  
Tutorial: 1 x ½ Seminar: 1 x 1 Student-directed learning: 9½ x 1  
Transferability:  
UBC with 12-251 Music 145 (Voice)
- 12-200\* Basic Harmony — Advanced Theory 3 credits**  
Continuing the study of diatonic four-part harmony beyond foundations laid in Music 12-100. Open as elective to non-music majors.  
Spring semester.  
Prerequisite: 12-100, or permission of instructor  
Lecture: 5  
Transferability:  
UBC 1½ units Music Education 101 for majors in music education  
Not transferable to Faculty of Music
- 12-205\* Ensemble — Band 1 credit**  
Problems involved in performance of ensemble music, with emphasis on rehearsal techniques and conductor-performer relationship.  
Fall and spring semesters.  
Prerequisite: 12-105  
Corequisite: For music majors 12-250; audition required from non-majors  
Laboratory: 3 x 2  
Transferability:  
UBC with 12-105 Music 152
- 12-206\* College Chorus 1 credit**  
Members study and perform works from all periods requiring chorus of large numbers. Familiarization with conductor-performer relationship. Exposure to problems in performance of choral music, with emphasis on rehearsal techniques. This is lab for Music 12-251.  
Fall and spring semester.  
Prerequisite: 12-106  
Laboratory: 3 x 2  
Corequisite: For music majors 12-251; audition required from non-majors  
Transferability:  
UBC with 12-106 Music 153 or 154
- 12-210\* Theory of Western Music: 1450-1650 3 credits**  
Mastery of rudiments of Western music with aural and analytical competence in techniques of melody, harmony, and counterpoint as practised from c. 1450-1650. Special attention to reading of scores and lecture-room performance.  
Spring and summer semesters.  
Prerequisite: 12-110  
Lecture: 5  
Transferability:  
UBC with 12-110 Music 100
- 12-220 History of Western Music: Ockeghem to Byrd 3 credits**  
Historical survey of development in style and form in Western music from Ockeghem to Byrd. Obligatory in university-transfer program. Permission of instructor required for others wishing to take course as elective.  
Spring semester.  
Prerequisite: None  
Lecture: 3  
Transferability:  
UBC with 12-120 Music 120
- 12-230\* Advanced Class Woodwinds 2 credits**  
A study (by performance) of the flute, oboe, clarinet, saxophone, and bassoon, in preparation for effective teaching of instrumental music. Familiarization with peculiarities, tone production, and fingering techniques of woodwind instruments (using both treble and bass clef).  
Fall and spring semesters.  
Prerequisite: 12-130  
Laboratory: 3 x 1  
Transferability:  
UBC with 12-130 Music 142 (2 units)
- 12-233\* Advanced Sight Singing 1 credit**  
Development of sight singing skill to an advanced standard through singing and hearing of various harmonic progressions. Singing of melodies of more complex rhythmic patterns. Extensive exercise in singing of melodies which modulate to further related keys. A brief introduction of clefs other than the basic clefs.  
Fall and spring semester.  
Prerequisite: 12-133  
Laboratory: 3  
No transfer credit
- 12-240\* Piano (Secondary) 1 credit**  
Piano repertoire, technical requirements, aural training, sight reading, accompaniment, improvisation, and keyboard harmony. Available only to majors in B.Mus. (general) program.  
Fall and spring semesters.  
Prerequisite: None  
Tutorial: ½ hr.  
Transferability:  
UBC with 12-140 Music 144 (Piano)
- 12-250\* Music Concentration (Instrumental) 2 credits**  
Tone production, technique, transposition, repertoire, solo performance, ensemble playing, style and development. Open only to music majors in B.Mus. (general) program.  
Fall and spring semesters.  
Prerequisite: 12-150  
Co-requisite: 12-205  
Tutorial: 1  
Transferability:  
UBC with 12-150 Music 145 (Instrumental)
- 12-251\* Music Concentration (Vocal) 2 credits**  
Vocal tone production, technique, English diction, and vocal pedagogy. Techniques of training voices in chorus.  
Fall and spring semesters.  
Prerequisite: 12-151  
Corequisite: 12-206  
Tutorial: ½ hr. Seminar: 1  
Transferability:  
UBC with 12-151 Music 145 (Voice)
- 12-305\* Ensemble — Band 1 credit**  
Problems in performance of ensemble music, with emphasis on rehearsal techniques and conductor-performer relationship.  
Fall and spring semester.  
Prerequisite: 12-205  
Corequisite: For music majors 12-230; audition required from non-majors  
Laboratory: 3 x 2  
Transferability:  
UBC ½ units Large Ensemble
- 12-306\* College Chorus 1 credit**  
Members study and perform works from all periods requiring chorus of large numbers. Familiarization with conductor-performer relationship. Exposure to problems in performance of choral music, with emphasis on rehearsal techniques. This is lab for Music 12-351.  
Fall and spring semesters.  
Prerequisite: 12-206  
Corequisite: For music majors 12-351; audition required from non-majors  
Laboratory: 3 x 2  
Transferability:  
UBC with 12-406 Large Ensemble second year B.Mus. (general)
- 12-310\* Theory of Western Music: 1600-1750 3 credits**  
Mastering the rudiments of Western music, gathering aural and analytical competence in techniques of melody, harmony, and counterpoint as practised from c. 1600-1750. Special attention to reading of scores in lecture-room performance, and to imitation of chief styles.  
Fall semester.  
Prerequisite: 12-210  
Lecture: 5  
Transferability:  
UBC with 12-410 Music 200
- 12-320 History of Western Music: 1600-1750 3 credits**  
A study of development in style and form in Western music from Monteverdi to Bach. Obligatory in university-transfer program in music. Permission of instructor for others wishing to take course as elective.  
Fall semester.  
Prerequisite: None  
Lecture: 3  
Transferability:  
UBC with 12-420 Music 320
- 12-340\* Piano (Secondary) 1 credit**  
Piano repertoire, technical requirements, aural training, sight reading, accompaniment, improvisation, and keyboard harmony. Available only to majors in B.Mus. general program.  
Fall, spring and summer semesters.  
Prerequisite: 12-240  
Tutorial: ½ hr. Student-directed learning: 5  
Transferability:  
UBC with 12-440 Music 244 (1 unit)
- 12-350\* Music Concentration (Instrumental) 2 credits**  
Tone production, instrumental techniques, transposition, repertoire, solo performance, ensemble playing, and style development. Training to standard of Royal Conservatory of Music, Toronto, grade 8 examination in one of the following instruments: oboe, flute, clarinet, bassoon, saxophone, trumpet, trombone, french horn, baritone, euphonium, tuba, percussion, violin, viola, cello, and string bass. Open only to music majors in B.Mus. (general).  
Fall and spring semesters.  
Prerequisite: 12-250



Corequisite: 12-305  
Tutorial: 1  
Transferability:  
UBC with 12-450 Music 245 (Instrumental)

**12-351\* Music Concentration (Vocal) 2 credits**

Vocal tone production, tone color, English, Italian, French, Latin and German diction; music (vocal) from Baroque, Classical, Romantic, and contemporary periods, and an understanding of stylistic and interpretative characteristic of each. Students acquire knowledge of library research methods pertaining to each, also knowledge of library research methods pertaining to vocal solo and choral groups.

Fall and spring semesters.  
Prerequisite: 12-251  
Corequisite: 12-306  
Tutorial: ½ hr. Seminar: 1  
Transferability:  
UBC with 12-451 Music 245 (Vocal)

**12-405\* Ensemble — Band 1 credit**

Problems in performance of ensemble music, with emphasis on rehearsal techniques and conductor-performer relationship.

Fall and spring semesters.  
Prerequisites: 12-305  
Corequisite: For music majors 12-450; audition required from non-majors  
Transferability:  
UBC ½ units Large Ensemble

**12-406\* College Chorus 1 credit**

Members study and perform works from all periods requiring chorus of large numbers. Familiarization with conductor-performer relationship. Exposure to problems in performance of choral music, with emphasis on rehearsal techniques. This is lab for 12-451.

Fall and spring semesters.  
Prerequisite: 12-306  
Corequisite: For music majors 12-451; audition required from non-majors  
Laboratory: 3 x 2  
Transferability:  
UBC with 12-306 Large Ensemble second year B.Music (general)

**12-410\* Theory of Western Music: 1750-1910 3 credits**

Compositional techniques in Western music from Bach to Schoenberg, especially counterpoint, harmony, and form. Emphasis on score analysis, aural comprehension, and elementary composition in small forms. Obligatory for students in B.Mus. (general) university-transfer program.

Spring semester.  
Prerequisite: 12-310  
Lecture: 5  
Transferability:  
UBC with 12-310 Music 200

**12-420 History of Western Music: 1750-1910 3 credits**

Developments in style and form of Western music from Haydn to Schoenberg. Obligatory for students in B.Mus. (general) university-transfer program; optional for students majoring in music education; permission of instructor required for others wishing to take course as elective.

Spring semester.  
Prerequisite: None  
Lecture: 3  
Transferability:  
UBC with 12-320 Music 320

**12-440\* Piano (Secondary) 1 credit**

Piano, repertoire, technical requirements, aural training, sight reading, accompaniment, improvisation, and keyboard harmony. Available only to majors in B.Mus. (general) program.

Fall and spring semesters.  
Prerequisite: 12-340  
Tutorial: ½ hr. Student-directed learning: 5  
Transferability:  
UBC with 12-340 Music 244 (Piano)

**12-450\* Music Concentration (Instrumental) 2 credits**

Tone production, instrumental techniques, transposition, repertoire, solo performance, ensemble playing, and style development. Training to standard of Royal Conservatory of Music, Toronto, grade 8 examination in one of following instruments: oboe, flute, clarinet, bassoon, saxophone, trumpet, trombone, french horn, baritone, euphonium, tuba, percussion, violin, viola, cello, and string bass. Open only to music majors in B.Mus. (general) program.

Fall and spring semesters.  
Prerequisite: 12-350  
Corequisite: 12-405  
Tutorial: 1  
Transferability:  
UBC with 12-350 Music 245 (Instrumental)

**12-451\* Music Concentration (Vocal) 2 credits**

Vocal production, tone color, English, Italian, French, Latin, and German diction; music (vocal) from Baroque, Classical, Romantic, and contemporary periods, and an understanding of stylistic and interpretative characteristics of each. Students acquire knowledge of library research methods pertaining to vocal solo and choral groups.

Fall and spring semesters.  
Prerequisite: 12-351  
Corequisite: 12-406  
Tutorial: ½ hr. Seminar: 1  
Transferability:  
UBC with 12-351 Music 245 (Voice)

## PHILOSOPHY

A student completing any of the following seven philosophy courses at Douglas College will receive credit at The University of British Columbia. Philosophy 27-100, 27-110, 27-120, 27-150, 27-200, 27-210 and 27-290. Any two of these courses will be accepted as equivalent to Philosophy 100 at UBC; any four will be accepted as equivalent to both Philosophy 100 and 201. Philosophy 27-130 and 27-131 are really courses in Religious Studies rather than Philosophy and will probably therefore have credit at UBC in Religious Studies.

The following nine courses have been accepted for credit at Simon Fraser University. Philosophy 27-100, 27-110, 27-120, 27-130, 27-131, 27-150, 27-200, 27-210 and 27-290. A student taking Philosophy 27-100 at Douglas College will receive credit for Philosophy 100 at SFU; a student taking Philosophy 27-110 will receive credit for Philosophy 120 at SFU; and a student taking Philosophy 27-150 will receive credit for Philosophy 110 at SFU. The following three courses will be accepted as part of the total number of hours required for a degree at SFU: Philosophy 27-120, 27-130 and 27-131. The following three courses will be accepted at SFU as Philosophy courses although they do not have any course equivalents: 27-200, 27-210 and 27-290.

A student taking Philosophy at Douglas College should begin with either 27-100, 27-110 or 27-150. One of these courses is required to enter Philosophy 27-200, 27-210 or 27-290. Although it is not required that a student take either 27-100, 27-110 or 27-150 before entering 27-120, he is urged to do so as some philosophical expertise is normally pre-supposed in that course. Philosophy 27-100 and 27-200 on the one hand, and Philosophy 27-110 and 27-210 have been designed as sequential courses and students are urged to take them in this order for continuity.

**27-100 Introduction to Philosophy 3 credits**

An introduction to questions raised by philosophical thinking, past and present, and to the humans who raised them. Emphasis on an introductory understanding of philosophy with special attention to "What is real?" and "How do we know what we claim to know?" Seminars, discussion periods, and film presentations augment studies in selected philosophical readings.

Spring, summer and fall semesters.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC (see dept. note above)  
SFU Philosophy 100 (3)

**27-110 Morality in Turmoil 3 credits**

A search for the meaning and justification of moral judgements such as "right," "wrong," "good," "evil," with special attention to contemporary moral concerns. Includes relevant readings in classical and modern texts, discussion groups, field work, and research of student's choice.

Fall semester.  
Lecture: 2 Seminar: 2  
Transferability:  
UBC (see dept. note above)  
SFU Philosophy 103 (3)

**27-120 Fact, Faith and Fiction 3 credits**

An introduction to the philosophy of religion which investigates the fact of religion; concepts of faith; relation of religious faith to reason, ethics, and problems of evil and free will; fictions in theism, agnosticism, and atheism. Due to dominant position of Judaic-Christian religion in Western civilization, special attention will be given to this area of study.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC (see dept. note above)  
SFU 3 unassigned credits in Philosophy

**27-130 Religious Thought 3 credits**

An introduction to the development of religions, their common themes, and their influence on human thought; also their philosophical, anthropological, and psychological implications.

Fall semester.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC to be determined  
SFU 3 unassigned credits in Arts

**27-131 Religions of Mankind 3 credits**

A comparative examination of major religions in the context of human thought and culture; the role of myth, legend, miracles, faith, beliefs, and revelation, as found in the major religions.

Spring semester.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC to be determined  
SFU 3 unassigned credits in Arts

**27-150 Critical Thinking 3 credits**

A study of logical uses of language, and basic forms and rules of logical reasoning. Includes deduction and induction, fallacies, definition, traditional deductive logic, validity and invalidity, elements of symbolic logic. Emphasis on acquiring a working knowledge of topics covered.

Fall semester.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC to be determined  
SFU Philosophy 102 (3)

**27-200\* Studies in Philosophy 3 credits**

A continuation of Philosophy 27-100 with emphasis on freedom and determinism, moral philosophy, and the philosophy of politics. Seminars, discussion periods, and film presentation augment studies in selected philosophical readings.

Spring and fall semesters.

Prerequisite: 27-100 or equivalent

Lecture: 2 Seminar: 2

Transferability:

UBC (see above)

SFU 3 unassigned credits in Philosophy

**27-210\* Ethics and Moral Judgment 3 credits**

A continuation of the search for meaning and justification of moral judgments initiated in 27-110. Includes relevant readings in classical and modern texts, discussion groups, field work, and research of student's choice. Special emphasis will be given to relating content of the course.

Spring semester.

Prerequisite: 27-100 or 27-110

Lecture: 2 Seminar: 2

Transferability:

UBC (see dept. note above)

SFU 3 unassigned credits in Philosophy

**27-290\* Political Man and Social Man 3 credits**

A study of sources and limits of political authority, relationship between the individual and society, moral dimensions of social control, impact of behavioral sciences on social and political philosophy. Readings include relevant texts in classical and modern philosophy and in social sciences.

Spring semester.

Prerequisite: 27-100 or 27-110

Lecture: 2 Seminar: 2

Transferability:

UBC (see dept. note above)

SFU 3 unassigned credits in Philosophy

**PHYSICAL EDUCATION****Physical Education Service Program**

The popularity of many activity courses at Douglas College has prompted expansion into the area of voluntary service courses. All students, both part-time and full-time, are eligible to enrol in any one or more of these courses, which emphasize personal rather than professional development.

Classes meet for three hours weekly, and each course carries one credit. The three hours are devoted mainly to practical work. These courses are presently non-transferable, but will give credit toward the College diploma.

These service courses are numbered 64-130 to 64-150.

**64-100 Fundamentals of Recreation for Child Care Workers 3 credits**

This course is required in the Child Care program, but may be of general interest. It differentiates between recreation and physical education. Student gains skills in area of hobbycrafts. Recreational skills taught are appropriate for use with age groups 6 to 18.

Fall semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

No transfer credit

**64-110 Track and Field 2 credits**

Theoretical and practical knowledge of six track and field events. Not intended to produce excellent athletes, but rather teachers who can help children and the community to make good use of leisure time through participation in athletic diversions. High jump, long jump, discus, shot put, sprinting, and middle distance running are dealt with under the headings: Kinesiological principles, teaching methods, and techniques appropriate to school and community programs. Offered as elective and for transfer.

Spring semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 250

**64-111 Badminton 2 credits**

Theoretical and practical knowledge of badminton. Not intended to produce expert players, but rather teachers who can help children and the community to make good use of leisure time through participation in athletic diversions. Emphasis on skills, rules, tactics, teaching methods, and techniques appropriate to school and community programs. Offered as elective and for transfer.

Fall semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 220

**64-112 Volleyball 2 credits**

Theoretical and practical knowledge of volleyball. Not intended to produce expert players, but rather teachers who can help their children and the community to make good use of leisure time through participation in athletic diversions. Emphasis on skills, rules, tactics, teaching methods, and techniques appropriate to school and community programs. Offered as elective and for transfer.

Fall semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 219

**64-113 Swimming 2 credits**

Theoretical and practical knowledge of water-safety skills, strokes, entries, survival and teaching techniques appropriate to school and community programs. Offered as elective and for transfer.

Spring semester.

Prerequisite: Ability to swim 25 yards

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 230

**64-114 Basketball 2 credits**

Theoretical and practical knowledge of basketball. Not intended to produce expert basketball players, but rather teachers who can assist children and the community to make good use of leisure time through participation in athletic diversions. Emphasis on skills, offensive and defensive tactics, teaching methods and techniques. Offered as elective and for transfer.

Fall semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 210

**64-115 Recreation Activities 2 credits**

Prepares student to conceive, organize, and operate indoor recreation programs involving games, contests, and relays — including individual, pair, team, and group activities. Teaching techniques and program planning emphasized. Offered as elective and for transfer.

Spring semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 218

**64-116 Tennis 2 credits**

This course, ordinarily given in summer, provides theoretical and practical knowledge of tennis. Not intended to produce expert players, but rather teachers who can assist children and the community to make good use of leisure time through participation in athletic diversions. Emphasis on skills, rules, tactics, teaching methods, and techniques. Offered as elective and for transfer.

Summer semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 226

**64-117 Conditioning Programs 2 credits**

Theoretical and practical knowledge of conditioning programs related to specific needs. Not intended to produce top-class athletes, but rather instructors to serve the community. Emphasis on conditioning exercises, fitness assessment, adaptation of exercise programs, teaching methods, and techniques. Offered as elective and for transfer.

Spring semester.

Prerequisite: None

Lecture: 1 Gymnasium: 3

Transferability:

UBC P.E. 203

**64-118 Contemporary Dance 2 credits**

Theoretical and practical knowledge of contemporary dance as taught from elementary to college level. Not intended to produce experts, but rather instructors to serve the community. Emphasis on rhythm and movement skills, dance notation, percussion accompaniment, teaching methods, and techniques. Offered as elective and for transfer.

Spring semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 241

**64-119 Gymnastics (Men) 2 credits**

Theoretical and practical knowledge of tumbling, free-standing and apparatus gymnastics, and teaching methods. Not intended to produce expert gymnasts, but rather teachers who can assist children and the community to make good use of leisure time through participation in physical activity. Offered as elective and for transfer.

Fall semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 202

**64-120 Gymnastics (Women) 2 credits**

Theoretical and practical knowledge of tumbling, floor exercises, and apparatus rhythmic gymnastics, teaching methods, and techniques. Not intended to produce expert gymnasts, but rather teachers who can assist children and the community to make good use of leisure time through participation in physical activity. Offered as elective and for transfer.

Fall semester.

Prerequisite: None

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 201

**64-121 Field Hockey 2 credits**

Theoretical and practical knowledge of field hockey. Not intended to produce expert players, but rather teachers of field hockey who will be able to utilize knowledge acquired within the community and schools. Emphasis on skills, rules, offensive and defensive tactics, teaching methods, and techniques. Offered as elective and for transfer.

Fall semester.  
Prerequisite: None  
Lecture: 1 Laboratory: 3  
Transferability:  
UBC P.E. 213

**64-122 Soccer 2 credits**

Theoretical and practical knowledge of soccer. Not intended to produce expert players, but rather teachers who will be able to utilize knowledge acquired within the community and schools. Emphasis on skills, rules, offensive and defensive tactics, teaching methods, and techniques. Offered as elective and for transfer.

Spring semester.  
Prerequisite: None  
Lecture: 1 Laboratory: 3  
Transferability:  
UBC P.E. 216

**64-130 Swimming 1 credit**

Water safety, strokes, skills, entries, survival techniques; recreational and competitive activities, including racing, diving, water polo and other games.

Fall semester.  
Prerequisite: None  
Physical participation: 3  
No transfer credit

**64-131 Archery 1 credit**

Selection and care of archery equipment, safety measures, shooting techniques, skills, target shooting, competitive events, novelty tournaments, archery golf.

Offered on sufficient demand.  
Prerequisite: None  
Physical participation: 3  
No transfer credit

**64-132 Curling 1 credit**

Dress, equipment, delivery, take-out technique, sweeping, rules, terminology, etiquette, skipping strategy.

Offered on sufficient demand.  
Prerequisite: None  
Physical participation: 3  
No transfer credit.

**64-133 Conditioning 1 credit**

Individual appraisal of elements of fitness, individual and group exercise programming, calisthenic and isometric exercise, weight and circuit training, jogging, individual and group games and contests. Students learn to assess personal physical condition, and the means to attain and maintain achieved levels of strength, endurance, trimness, etc. with minimum drudgery.

Offered on sufficient demand.  
Prerequisite: None  
Physical participation: 3  
No transfer credit

**64-134 Badminton 1 credit**

Basic strokes, rules, and strategies for singles and doubles play; terminology, tournament competition.

Offered on sufficient demand.  
Prerequisite: None  
Physical participation: 3  
No transfer credit

**64-135 Squash and Handball 1 credit**

Basic strokes, rules, and strategies for singles and doubles play; terminology; tournament competition.

Fall semester.  
Prerequisite: None  
Physical participation: 3  
No transfer credit

**64-136 Golf 1 credit**

Selection and care of equipment, safety, etiquette, golf swing, techniques, and skills of using various clubs; terminology, course practice, scoring, competition.

Spring semester.  
Prerequisite: None  
Physical participation: 3  
No transfer credit

**64-137 Basic S.C.U.B.A. Diving 1 credit**

The student will learn sufficient theoretical knowledge of Scuba diving physics, physiology, equipment, and safety, as well as thorough practical training in pool and open water. Standard of graduate to meet requirements of international certification.

Spring semester.  
Prerequisite: Medical examination (form provided)  
Seminar: 1 x 2 Field experience: 1 x 1½ Pool: 1 x 2  
No transfer credit

**64-200 Fundamentals of Recreation for Child Care Workers 3 credits**

Course required in Child Care program, but may be of general interest. It differentiates between recreation and physical education. Students gain skills in areas of active and passive games and in camping. Recreational skills taught are appropriate for use with age groups 6 to 18.

Spring semester.  
Prerequisite: None  
Lecture: 1 Laboratory: 3  
No transfer credit

**64-210 Track and Field 2 credits**

Theoretical and practical knowledge of seven track and field events. Not intended to produce champions, but rather instructors to teach in schools and serve the community. Specific studies made of sprinting, hurdling, middle distance, relays, jumping, pole vaulting, throwing. Throwing methods appropriate to school and community programs stressed. Offered as elective and for transfer.

Offered on sufficient demand.  
Prerequisite: 64-110, or permission of instructor  
Lecture: 1 Laboratory: 3  
Transferability:  
UBC P.E. 251

**64-350 Foundations of Physical Education 3 credits**

An in-depth study of physical education as a profession, as well as of principles, nature, scope and objectives of physical education, and their interpretations. Course required in Bachelor of Physical Education program, and in Bachelor of Education programs with a physical education major.

Fall semester.  
Prerequisite: None  
Lecture: 3 Seminar: 1  
Transferability:  
UBC P.E. 260

**64-360 Health Education 3 credits**

An introduction to anatomy and physiology, involving study of body systems, growth and development, and personal hygiene. Offered as elective and for transfer.

Spring semester.  
Prerequisite: None  
Lecture: 4  
Transferability:  
UBC P.E. 262

## PHYSICS

Students wishing to either major or honor in physics should consult the calendar of the university which they plan to attend after leaving Douglas, to determine the exact prerequisites for physics, mathematics, and chemistry.

For either a major or an honor in physics, courses selected during the first and second semesters should include:

Physics 45-100 and 45-200 or Physics 45-110 and 45-210  
Chemistry 42-100 and 42-200 or Chemistry 42-110 and 42-210  
Mathematics 44-120, 44-220 and 44-131

In the third and fourth semesters, the selected courses should include:

Physics 45-320, 45-321, 45-420, and 45-421  
Mathematics 44-320, 44-420, 44-231, and 44-331

Those intending to honor in physics at UBC are advised to transfer after completing two semesters at Douglas. Those intending to go to SFU can complete their first two years at Douglas except for a one semester course: SFU Physics 206-2, Thermodynamics, and Modern Physics.

Fall semester.  
Prerequisite: B.C. Math 12 or equivalent, or B.C. Physics 12 or equivalent.  
A course in calculus must precede or be taken concurrently.

Lecture: 3 Laboratory: 3  
Transferability:  
UBC with 45-210 Physics 110  
SFU Physics 201 and 1 unassigned credit in Physics

**45-100\* Introductory General Physics 3 credits**

A non-calculus physics course for students with little or no background in physics, covering mechanics, sound, heat.

Spring and fall semesters.  
Prerequisite: B.C. Math 11 or equivalent knowledge of trigonometry and algebra, or permission of instructor  
Lecture: 3 Laboratory: 3 Tutorial: 1  
Transferability:  
UBC with 45-200 Physics 105  
SFU Physics 101

**45-105 Solar System Astronomy 3 credits**

A survey of the solar system for non-Science majors, involving study of physical laws necessary for observation and understanding of the solar system. Includes origin of solar system, planets and their satellites, telescopes and optics, light and the electromagnetic spectrum, comets, meteors, and asteroids.

Fall semester.  
Prerequisite: None  
Lecture: 3 Laboratory: 2  
Transferability:  
UBC 1½ units unassigned credit in Science  
SFU 3 unassigned credits in Science

**45-110\* Mechanics and Sound 3 credits**

Topics include vectors, particle kinematics and dynamics, work, energy and power, momentum, rotational motion, statics, dynamical systems, elasticity, periodic motion, wave motion, and sound.

**45-200\* Introductory General Physics 3 credits**

A non-calculus physics course for students with little or no background in Physics. Covering heat, light, electricity, magnetism, and topics in modern physics.

Spring semester.  
Prerequisite: 45-100, or permission of instructor  
Lecture: 3 Laboratory: 3 Tutorial: 1  
Transferability:  
UBC with 45-100 Physics 105  
SFU Physics 102



**45-205\* Stellar Astronomy 3 credits**

A survey of stars and stellar systems (clusters, galaxies), the evolution of stars and cosmology, for non-Science majors.

Spring semester.

Prerequisite: 45-105

Lecture: 3 Laboratory: 2

Transferability:

UBC 1½ units unassigned credit in Science

SFU 3 unassigned credits in Science

**45-210\* Heat, Light, Electricity and Magnetism 3 credits**

Temperature and thermal expansion, heat and heat transfer, thermodynamics, wave nature of light, reflection and refraction, diffraction, polarization, electro-statics, electro-static fields, electric currents, magnetic forces and fields, electromagnetic induction.

Spring semester.

Prerequisite: 45-110, or permission of instructor

Lecture: 3 Laboratory: 3

Transferability:

UBC with 45-110 Physics 110

SFU with 45-110 Physics 201, 202 and 204

**45-320\* Advanced Mechanics 3 credits**

Classical mechanics using advanced mathematical techniques; inertial and non-inertial frames of reference; special relativity; thermodynamics.

Fall semester.

Prerequisite: 45-210, or permission of instructor. Math 44-320 and Physics 45-321 must be taken concurrently.

Lecture: 3 x 1

Transferability:

UBC with 45-420 Physics 200

SFU Physics 203

**45-321\* Laboratory in Contemporary Physics 1 credit**

Experiments in electric instrumentation and the dynamics of charged particles.

Fall semester.

Prerequisite: 45-320 must be taken concurrently

Laboratory: 1 x 3

Transferability:

UBC with 45-421 Physics 219

SFU with 45-421 Physics 234 and 235

**45-420\* Advanced Electricity 3 credits**

Electromagnetic induction, electromagnetic waves, Maxwell's equations, A.C. theory and circuits, introduction to electronics.

Spring semester.

Prerequisite: 45-210, or permission of instructor. Math 44-420 and Physics 45-421 should be taken concurrently.

Lecture: 3 x 1

Transferability:

UBC with 45-320 Physics 200

SFU Physics 205

**45-421\* Laboratory in Electric Circuits 1 credit**

Experiments in alternating current circuits; a continuation of the Berkeley Physics Laboratory followed in Physics 45-321.

Spring semester.

Prerequisite: 45-321. Physics 45-420 must be taken concurrently.

Transferability:

UBC with 45-321 Physics 219

SFU with 45-321 Physics 234 and 235

**POLITICAL SCIENCE**

Requirements for Major in Political Science at UBC.

**For Second-Year Standing at UBC Douglas College Equivalent**

|                                    |  |
|------------------------------------|--|
| Political Science 200              |  |
| The Gov't. of Canada (1½ units)    | 22-120 Canadian Gov't.                               |
| <i>Two from:</i>                   |  |
| 201 Comparative Gov't. (1½ units)  | None   |
| Political Science 202              |  |
| Contemporary Ideologies (1½ units) | 22-110 Ideology and Politics                         |
| Political Science 203              |  |
| Methodology (1½ units)             | None   |
| Political Science 204              | Political Science 22-150                             |
| International Politics (3 units)   | International Relations and Political Science 22-155 |
|                                    | Contemporary International Conflict                  |

**Third-Year Requirements at UBC Douglas College Equivalent**

|  |                                     |
|--|-------------------------------------|
| Political Science 300                            |                                     |
| Political Theory (3 units)                       | None                                |
| Political Science 309                            |                                     |
| Quantitative Methods (3 units)                   | None                                |
| Political Science 310                            |                                     |
| Political Behavior (3 units)                     | None                                |
| Political Science 312                            |                                     |
| B.C. Gov't and Politics (1½ units)               | None                                |
| Political Science 321                            |                                     |
| Quebec Gov't and Politics (1½ units)             | None                                |
| Political Science 322                            |                                     |
| Federalism in Canada (1½ units)                  | None                                |
| Political Science 402                            |                                     |
| Canadian Parties (1½ units)                      | None                                |
| Political Science 311                            | Political Science 22-155            |
| International Violence and Its Control (3 units) | Contemporary International Conflict |
| Major in International Relations                 |                                     |

**1st and 2nd Year Standing at UBC Douglas College Equivalent**

|   |   |
|---|---|
| History 125 Main Currents of 20th Century History (3 units) | None  |
| Political Science 204                                       | Political Science 22-150                            |
| International Politics (3 units)                            |   |
| Political Science 200, 201, 202, 203 (1½ units each)        | See requirements for Political Science major above. |

Requirements for Major in Political Science at Simon Fraser University

**SFU Courses Douglas College Equivalent**

|  |                          |
|--|--------------------------|
| PSA 211 (3 credits)                            | Political Science 22-110 |
| PSA 244 (3 credits)                            | Political Science 22-120 |
| PSA 222 (3 credits)                            | Political Science 22-125 |
| Counted as 200 level PSA (3 credits)           | Political Science 22-130 |
| General elective Political Science (3 credits) | Political Science 22-140 |
| Counted as 200 level PSA credit (3 credits)    | Political Science 22-150 |
| History 298 (3 credits)                        | Political Science 22-155 |

**22-105 The Canadian Legal System 3 credits**

Developments of Canadian legal systems, the relationship of civil and criminal law, the legislative bodies and courts, and court officers.

Fall semester, alternate years.

Prerequisite: None

Lecture: 4 and field experience

Transferability:

UBC no transfer credit

SFU 3 unassigned credits in Arts

**22-110 Ideology and Politics 3 credits**

Examination of major ideologies, including conservatism, liberalism, socialism, and forms of totalitarianism.

Spring semester, alternate years.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC Political Science 202

SFU P.S.A. 211 (3)

**22-120 Canadian Government 3 credits**

A study of the problems of federal, provincial and municipal government with emphasis on Canada's federal nature and its future as a nation.

Spring and fall semesters.

Prerequisite: None

Seminar: 2 x 2

Transferability:

UBC Political Science 200

SFU P.S.A. 244 (3)

**22-125 Introduction to Political Science 3 credits**

Basic concepts of political science, political processes, parties, and interest groups.

Fall semester, alternate years.

Prerequisite: None

Lecture: 2 Tutorial: 2

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU P.S.A. 222 (3)

**22-130 Soviet Government: Theory and Practice 3 credits**

Presents various descriptions and analyses of the Soviet government in theory and practice. It is an introduction to the study of Soviet government and politics, followed by: Marxism and Russian Bolsheviks; revolution of 1917 and establishment of Soviet regime; constitutional evolution of Soviet system; Communist party of Soviet Union; Soviet government and administration; Soviet federalism and nationality problem; Soviet economy and society; Soviet foreign policy; and international communism.

Fall semester, alternate years.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU P.S.A. 200 level (3)

**22-140 Chinese Government and Politics 3 credits**

Explores a number of topics relating to origin and development of the Chinese communist revolutionary movement, ideology and organization in China, and China's international relations since 1949.

Spring semester, alternate years.

Prerequisite: None

Lecture: 2 Tutorial: 2

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU 3 unassigned credits in Arts

**22-150 Introduction to International Relations 3 credits**

A critical examination of the nature of the international system of states. Analyzes political, military, cultural, psychological, economic, and ideological factors affecting the behavior of states in their mutual relations, and the impact of international organizations and technological developments on world politics.

Spring and fall semester.

Prerequisite: None

Lecture: 2 Tutorial: 2

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU 3 unassigned credits in P.S.A. second-year level

**22-155 Contemporary International Conflict 3 credits**

This course studies the nature and causes of international conflict, and examines contributions derived from research in disciplines in history, political science, economics, sociology, and psychology. An integration of these methods of analysis is attempted.

Spring and fall semesters.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Political Science  
SFU History 298 (3)

## PSYCHOLOGY

It is often believed that psychology is the course to take to learn all about people, or how to solve all your problems, or what's wrong with you. No one has all those answers at the present time. Psychology is the study of behavior and is working toward the prediction of behavior. As a relatively new science, progress in understanding and predicting behavior is coming in gradual steps, not leaps and bounds. There's no magic behind psychology and there's more use of the scientific method than most students are prepared for. What is known can now be used in your everyday life or whatever career you choose, but that is not readily apparent in the first semester of the course. Be patient, because you have to learn a lot of basic vocabulary and tools of investigation before you can make any applications. The second semester begins to get more exciting and the second year even more so.

**Note:** For UBC:

1) The maximum advance credit permitted in Psychology is 9 units credit at UBC. Additional credits, however, may be taken as general credit towards Arts Degree;

2) Any two of 28-320, 28-321, 28-322, 28-330, 28-350, 28-430, 28-450 may be transferred to UBC as assigned credit in Psychology equivalent to Psychology 206 (3 units).

**Note:** For SFU:

Students interested in honoring or majoring in psychology are advised to enrol in Psychology 28-100, 28-200, 28-300, and 28-400 at Douglas.

At SFU students must also take 220 — Learning, 230 — Perception, and 240 — Motivation for a major or honors; and 30 of their last 60 hours in their third and fourth years must be Psychology courses.

**28-100 Foundations of Contemporary Psychology 3 credits**

An introduction to selected major areas in the scientific treatment of behavior; their current status and historical antecedents. This one-semester course develops an integrated view of many areas of psychology, including: psychology as a natural and social science, treatment of data, biological and developmental foundations of psychology, motivation, sensation, emotion, and social processes.

Spring, summer and fall semesters.

Prerequisite: None

Lecture: 2 Seminar: 2

Transferability:

UBC with 28-200 Psychology 100  
SFU Psychology 101

**28-200\* Foundations of Contemporary Psychology 3 credits**

Focuses on basic psychological processes of perception, learning, cognition. Personality, and abnormal and social behavior, examined in relation to basic processes already studied. Relates data of psychology to applied areas such as psychological testing, group processes, personal adjustment, child-rearing practices, personnel and administrative practices, and modification of disordered behaviors.

Spring, summer and fall semesters.

Prerequisite: 28-100

Lecture: 2 Seminar: 2

Transferability:

UBC with 28-100 Psychology 100  
SFU 3 unassigned credits in Psychology

**28-300\* Experimental Psychology 3 credits**

First of a two-semester experimental sequence which initially considers the philosophy of science, especially as it relates to empirical approaches to psychology. Concentrates on analysis of results of experiments to enable student to analyze results of his own experiments and to intelligently criticize analyses of other investigators.

Fall semester.

Prerequisite: 28-200

Lecture: 2 Laboratory: 3

Transferability:

UBC with 28-400 Psychology 200  
SFU Psychology 210

**28-320\* Developmental Psychology — Child Behavior and Development 3 credits**

An introduction to the process of development, focusing on: major principles of development; descriptive changes in child growth and behavior; contemporary research and theory on origins and changes in areas such as perception, learning, personality, and social behavior of children.

Spring and fall semesters.

Prerequisite: 28-200

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Psychology; enrolment precludes taking Psychology 301 for credit  
SFU Psychology 351

**28-321\* Adolescent Psychology 3 credits**

A directed investigation in selected areas of developmental psychology. Problem areas are presented and students are encouraged to do in-depth investigations, using contemporary theory and research methodology. Encourages learning through personal experience such as role-playing, field work, discussion groups.

Spring and fall semesters.

Prerequisite: 28-200

Seminar: 2 Lecture: 2

Transferability:

UBC 1½ units unassigned credit in Psychology. Enrolment precludes student from enrolling in Psychology 301 for credit.  
SFU Psychology 355

**28-322\* Development Psychology: Aging 3 credits**

A detailed examination of the aging process in the context of basic content areas of psychology—motivation, sensation, perception, learning. Considers social implications of aging and seeks solutions to problems. Special treatment procedures in geriatrics examined, also psychological effects of the concept of death.

Spring and fall semesters.

Prerequisite: 28-200

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Psychology  
SFU 3 unassigned credits in Psychology

**28-330\* An Introduction to Social Psychology 3 credits**

A study of the individual's behavior within his social context, focusing on problems and methods of social psychology at three levels: intrapersonal, interpersonal, group behavior. Topics include interpersonal attraction and perception, social learning and social influence, social roles and status, and group processes.

Spring and fall semesters.

Prerequisite: 28-200

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Psychology; enrolment precludes taking Psychology 308 for credit.  
SFU Psychology 360

**28-340\* Behavior in Organizations 3 credits**

An investigation of theories and techniques used by psychologists and other behavioral scientists in dealing with problems of selection, management, and development of personnel in business, industry, and government. The nature of the personnel function and various organizational models considered and evaluated. Includes management identification, selection, development, counselling, interviewing, psychometric evaluation, labor relations, communication networks, motivation, and incentives.

Fall semester.

Prerequisite: 28-200

Lecture: 2 Seminar: 1 Problem-solving: 1

Transferability:

UBC 1½ units unassigned credit in Psychology; enrolment precludes student taking Psychology 415 for credit  
SFU 3 unassigned credits in Psychology

**28-350\* Conceptual Frameworks of Abnormal Behavior 3 credits**

A theoretical and experimental consideration of personality dynamics and behavior as they relate to a normal-abnormal continuum. A perspective on the concept of abnormality as currently used is sought by considering:

- Effects on major psychological processes;
- Conceptual frameworks from personality theory;
- Cornerstone symptoms related to personal adjustment.

Spring and fall semester.

Prerequisite: 28-200

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Psychology; enrolment precludes student taking Psychology 400 for credit  
SFU 3 unassigned credits in Psychology

**28-380\* Student Proctoring in Psychology 2 credits**

Provides experience in the administration and analysis of objective questionnaires in the field of psychology. Questionnaires handled in an interview situation. Student analyzes responses to questionnaires and engages in self and peer evaluation of his duties to acquire a deeper understanding of general psychological principles.

Spring and fall semesters.

Prerequisite: 28-200

Tutorial: 1 Proctoring: 5

No transfer credit

**28-400\* Experimental Psychology 3 credits**

The second of a two-semester course on the main content areas of general experimental psychology — physiological psychology, sensation, perception, learning, motivation, social behavior.

Spring semester.

Prerequisite: 28-300

Lecture: 2 Laboratory: 3

Transferability:

UBC with 28-300 Psychology 200  
SFU Psychology 201

**28-430\* Social Psychology: Theory and Research 3 credits**

A sequel to Introduction to Social Psychology, this course consists of directed investigation in one area of social psychology, enabling the student to learn more fully the theoretical explanations of that area. Contemporary social psychological research methods are utilized in projects investigating the student's area of interest.

Spring semester.

Prerequisite: 28-330

Seminar: 2 Laboratory: 2

Transferability:

UBC 1½ units unassigned credit in Psychology; enrolment precludes student taking Psychology 308 for credit  
SFU 3 unassigned credits in Psychology

**28-450\* Theories and Principles of Behavior Modification 3 credits**

A consideration of neurotic and severely disturbed adult behavior, with emphasis on modes of intervention and modification. Includes traditional classification models, experimental data in psycho-pathology, and the full range of therapeutic techniques and environments. Emphasis on potential usefulness of the material for non-psychological personnel and sub-professional psychology students in relating to behaviorally-disordered samples of the population.

Spring and fall semesters.

Prerequisite: 28-350

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Psychology; enrolment precludes student taking Psychology 401 for credit  
SFU 3 unassigned credits in Psychology

## READING SKILLS

**93-100 Reading Skills 1 credit**

A seven-week mini-course emphasizing increase in reading speed and comprehension; previewing, skimming and scanning; study habits and skills; critical reading skills; flexibility of reading rate; reading skills in academic, business, technical, and special-interest areas.

Prerequisite: None

Laboratory: 2 Student-directed learning: 1

No Transfer credit

**93-101 The Student and Successful Library Research 3 credits**

Designed to acquaint student with methods of research and library materials available to aid in research. Provides practical knowledge of research tools and illustrates how proper use of the library can lead to more efficient employment of time and better academic performance.

Prerequisite: None

Seminar: 1 Tutorial: 1 Field experience: 1

No transfer credit

**93-110 Study Skills for College 1 credit**

A seven-week mini-course in which useful study skills are demonstrated: listening skills, exam preparation, taking lecture and text notes, time utilization, concentrating and remembering, information analysis, general approaches to study, study techniques for specific subjects, writing themes and course papers.

Prerequisite: None

Lecture: 2

No transfer credit

**93-111 How to Write College Research 1 credit**

An eight-week mini-course in methods of essay organization and the skills needed to do efficient research. Students are encouraged to bring specific research problems to the tutorial.

Prerequisite: None

Lecture: 2

Nor transfer credit

**93-200\* Advanced Reading Skills 1 credit**

An opportunity to further develop skills introduced in 93-100.

Prerequisite: 93-100

Laboratory: 2 Student-directed learning: 1

No transfer credit

**93-300\* Reading Skills 1 credit**

An opportunity to develop and improve critical reading (study reading) skills. Through discussion and practice, skills are examined both generally and with reference to specific content areas.

Prerequisite: 93-200

Lecture: 1 x 2

No transfer credit

**93-400\* Reading Skills 1 credit**

An opportunity to further develop reading rate and comprehension. An individual program based on student's present reading level (as attained in previous reading courses).

Prerequisite: 93-300

Tutorial: 2

No transfer credit

## RELIGIOUS STUDIES — SEE PHILOSOPHY

## RUSSIAN — SEE MODERN LANGUAGES

## SOCIAL SERVICES

**69-100 Human Relations — Emotional Growth 3 credits**

For those who want to be more effective in relationships with others. Normal physical, emotional and mental growth taught from a social work viewpoint. Emphasis on individual worth, individual ability to change, and a variety of techniques.

Prerequisite: None

Tutorial: 4

No transfer credit

**69-110\* Child Care Methods 3 credits**

For students planning employment in settings which provide child care services. A study of normal physical, emotional and mental growth of children. Emphasis on practical skills needed in children's settings.

Prerequisite: Enrolment in Child Care Services program

Lecture: 2 Seminar: 2

No transfer credit

**69-121 Administration and Organization 3 credits**

For students planning employment in settings which provide child care services but may be taken on a general interest basis. Covers administrative, legal and legislative framework for child welfare services in general and child care settings in particular; also Child Care Worker's role in the overall structure, and the concept of working with groups.

Prerequisite: None

Lecture: 2 Seminar: 2

No transfer credit

**69-130 First Aid 1 credit**

Introduction to first aid for the injured. Diagnosis, treatment, and disposal of injuries and medical emergencies. Students qualify for St. John's Ambulance First Aid Certificate.

Prerequisite: None

Lecture: 1 Laboratory: 1 (for five weeks)

No transfer credit

**69-150\* The Vocational Rehabilitation Process 3 credits**

Provides workers in field of rehabilitation with comprehensive understanding of: the philosophy, history, and principles of rehabilitation; federal and provincial legislation pertaining to the rehabilitation process; scope of public and volunteer resources; an over-view of various professions involved in the rehabilitation process. Emphasis on co-ordinating the functions of vocational rehabilitation counsellor.

Prerequisite: Enrolment in Vocational Rehabilitation program

Lecture: 2 Seminar: 2

No transfer credit

**69-151\* Medical Aspects of Rehabilitation 3 credits**

A basic understanding of medical aspects of various disabilities; their physical, psychological, and social implications in the process of rehabilitation, and their relation to vocational rehabilitation counselling.

Prerequisite: Enrolment in Vocational Rehabilitation program

Lecture: 2 Seminar: 2

No transfer credit

**69-152\* Vocational Rehabilitation Counselling 3 credits**

An understanding of the counselling process, with special emphasis on its application to particular responsibilities and challenges of vocational rehabilitation counselling.

Prerequisite: Enrolment in Vocational Rehabilitation program

Lecture: 2 Seminar: 2

No transfer credit

**69-153\* Community Resources and Vocational Rehabilitation 3 credits**

Detailed information on, and an analysis of, various community services — formal and informal, public and voluntary, traditional and newly established — which assist in assessment, treatment and placement of rehabilitation clients. Special consideration to problems of communication and co-operation among resources.

Prerequisite: Enrolment in Vocational Rehabilitation program

Lecture: 2 Seminar: 2

No transfer credit

**69-180\* Child Care Practicum 3 credits**

Skills taught in Social Services 69-110 are put into practice during the two days per week practicum placement in a child care setting.

Prerequisite: Enrolment in Child Care Services Program

Practicum: 2 days per week

No transfer credit

**69-200\* Human Relations — Emotional Maturity 3 credits**

More effective relationships with others. Principles introduced in Social Services 69-100 expanded, integrated, and reinforced by examples. Emotional awareness of wants and needs of others is cultivated by studying principles involved in case records.

Prerequisite: 69-100

Seminar: 4

No transfer credit

**69-210\* Child Care Techniques 3 credits**

For students planning employment in settings providing child care services. Emphasis on role of Child Care Worker, his relationship to other staff, his role in helping children develop healthy life patterns and resolve specific problems.

Prerequisite: 69-110

Lecture: 2 Seminar: 2

No transfer credit

**69-280\* Child Care Practicum 3 credits**

Application of skills developed in Social Services 69-210 takes place during the two days per week practicum placement in a child care setting.

Prerequisite: 69-180  
Practicum: 2 days per week  
No transfer credit

**69-300\* Skills, Methods, and Techniques 3 credits**

An exploration of the helping process, including study, diagnosis, and treatment. Methods of problem-solving and helping others are worked out in seminar discussions and used as effective working tools in relationships.

Prerequisite: 69-200  
Seminar: 2 x 2  
No transfer credit

**69-400\* Problems of Abnormal Behavior 3 credits**

Emphasizes development of deeper understanding of abnormal behavior. Current methods of treatment and help used by professional social workers are studied.

Prerequisite: 69-300  
Seminar: 2 x 2  
No transfer credit

**SOCIOLOGY**

Sociology is one of the Social Sciences and as such is a disciplined, intellectual quest for fundamental knowledge of the nature of things. Sociology specifically deals with social groups, their internal forms or modes of organization, the processes that tend to maintain or change these forms of organization, and the relations between groups. The value of a science of social groups should need little emphasis. Each of us is born into a family group, and most of our actions thereafter are performed in our capacity as a member of one group or another.

In Sociology 125 the student is acquainted with the Sociological approach as well as the major areas of interest in Sociology. In Sociology 135 the student is concerned with the main thinkers in Sociology and their relevance to modern life. Above the 100 level the student is able to take courses of specific interest in Sociology.

Students wishing to transfer to UBC should take Sociology 23-125 and Sociology 23-135 which together are equivalent to Sociology 200, 250 or 260. Students are also encouraged to take two courses at Douglas above the 100 level.

Students continuing their studies at SFU should take two courses at the 100 level in Sociology or Anthropology and three courses above the 100 level in Sociology and Anthropology.

Students who are not interested in obtaining University transfer credit for courses above the 100 level can take these courses without the pre-requisite. (The prerequisite is necessary if University transfer credit is desired.) Students can audit any Sociology course that interests them.

**23-125 Social Processes 3 credits**

An investigation of social causes and consequences of stability and change as they affect class, status, and power relationships in contemporary societies.

Spring, summer and fall semesters.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC with 23-135 Sociology 200, 250 or 260  
SFU PSA 121

**23-135 Introduction to Social Theory 3 credits**

An examination of the development of sociological theory and its relevance to the present, both within the confines of the discipline and in life. Main theories, concepts, and models of sociology presented.

Spring and fall semester.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC with 23-125 Sociology 200, 250 or 260  
SFU PSA 101

**23-240\* The Role of Women in Society 3 credits**

A study of women in society with emphasis on the relationship between changes in their roles and changes in the social structure. Possible future trends analyzed.

Fall semester or on sufficient demand.  
Prerequisite or corequisite: Sociology 23-125 or 23-135  
Lecture: 2 Seminar: 2  
Transferability:  
UBC 1½ units unassigned credit in Sociology  
SFU 3 unassigned credits in P.S.A.

**23-250\* The Role of the Family in Society 3 credits**

A discussion of theories concerning origins of the family as well as analysis of the family in different cultures. Particularly concerned with family life in Canada and influence of the social structure on the family.

Spring semester or on sufficient demand.  
Prerequisite: Sociology 23-125 or 23-135, or permission of instructor  
Lecture: 2 Seminar: 1  
Transferability:  
UBC 1½ units unassigned credit in Sociology  
SFU 3 unassigned credits in P.S.A.

**23-260\* Sociological Inquiry 3 credits**

An investigation of the empirical method employed by sociologists in the collection and validation of data. Includes sampling procedures, quantitative and qualitative analysis, critical analysis of participant and non-participant

observations. Model and paradigm construction introduced.

Fall semester.  
Prerequisite: Sociology 23-125 or 23-135, or permission of instructor  
Seminar: 2 Tutorial: 2  
Transferability:  
UBC 1½ units unassigned credit in Sociology  
SFU PSA 231

**23-290\* Urbanization and Industrialization 3 credits**

An examination of variables involved in the phenomena of urbanization, urban organization, and industrial development. The viewpoint is cross-disciplinary in that social, cultural, and economic variables are brought together in historical context.

Spring and fall semesters.  
Prerequisite: Sociology 23-125 or 23-135, or permission of instructor  
Lecture: 2 Seminar: 2  
Transferability:  
UBC 1½ units unassigned credit in Sociology  
SFU PSA 221

**23-360\* Sociological Inquiry 3 credits**

An in-depth analysis of sociological methods, centering on quantitative analysis including computer application of data, paradigm construction, and questionnaire construction. Practical applications required.

Spring semester.  
Prerequisite: 23-260  
Tutorial: 4  
Transferability:  
UBC 1½ units unassigned credit in Sociology  
SFU PSA 232

**SPANISH — SEE MODERN LANGUAGES**

**SPEECH — SEE ENGLISH & ORAL COMMUNICATIONS**

**THEATRE**

**95-100 A Prism of Man and the Drama: Insights and Happenings 3 credits**

The dilemma of man and his complexity as revealed in representative plays. Private versus social conscience. Is tragedy an anachronism in the 70s? Forms of drama examined. A chance to be critical. Emphasis on perception and participation in seminar discussions and playreading, increasing awareness of theatre as a reflection of man as a cultural force. Acquaints student with major movements in modern drama.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC 1½ units unassigned credit in Theatre of combined with any one of 91-101 to 91-109, or 96-100, the equivalent of English 100 (3 units)  
SFU English 103 (see also list for English 100)

**95-105 A Panorama of World Drama to 17th Century 3 credits (formerly 95-200)**

First of a two-semester sequence in the history of theatre, from the Greeks to the Restoration. A study of major and some minor playwrights. Emphasis on development of Western theatre through in-depth analysis of selected plays. Extensive reading of plays and dramatic literature a requirement. Attention given to development of the stage.

Spring and fall semesters.  
Prerequisite: None  
Lecture: 2 Seminar: 2  
Transferability:  
UBC 1½ units unassigned credit in Theatre  
SFU 3 semester hours unassigned in English

**95-110\* Acting and Creating 3 credits**

Getting into the play. Participation in scenes and dramatic exercises with emphasis on improvisation, speech, movement, interpretation. Helping one to relax and communicate. Students have a chance to participate in a major production with public performance.

Spring and fall semesters.  
Prerequisite: Permission of instructor  
Laboratory: 3 x 2  
Transferability:  
UBC 1½ units unassigned credit in Theatre  
SFU No transfer credit

**95-111 Speech for the Stage 2 credits**

A practical workshop in speech techniques — voice projection, diction, breath control, expressiveness — to equip beginning actors with effective stage voices.

Spring and fall semesters.  
Prerequisite: None  
Laboratory: 2 x 2  
Transferability:  
UBC 1½ units unassigned credit in Theatre  
SFU no transfer credit



**95-120 Developmental Drama Workshop 3 credits**

Use of drama such as improvisation movement, dance, music, film, various media, to help develop the whole person: helping the individual to release his own creativity; mastery and control of the physical self; discovery and control of emotion; development of imagination, sensitivity, intellect. For actors and others wishing intense work in personal development.

Spring and fall semesters.

Prerequisite: None

Laboratory: 6

Transferability:

SFU 3 credits Theatre General elective  
UBC no transfer credit

**95-140 Stage Design and Scenery Construction 3 credits**

A theatre production course in basic theories and practices of design, construction, and lighting. Involves students in building scenery for an actual production.

Spring and fall semesters.

Prerequisite: None

Laboratory: 5

Transferability:

UBC 1½ units unassigned credit in Theatre  
UVic Theatre 105 1½ credits  
SFU no transfer credit

**95-161 Stage Direction Workshop 3 credits  
(formerly 95-160)**

A practical introduction to directing for the stage. Through working with scenes and other plays, students gain experience in solving problems concerning the director's responsibility to playwright, actor, audience, and production personnel.

Spring and fall semester.

Prerequisite: None

Lecture: 1 Laboratory: 2 x 3 Tutorial: 1

Transferability:

UBC 1½ units unassigned credit in Theatre  
SFU no transfer credit  
UVic 1½ units Theatre unassigned

**95-170 Fencing Workshop 1 credit**

Techniques of fencing as an aid to the actor in bodily development and stage movement. Emphasis on basic training in sword play and use of the sabre on stage.

Spring and fall semester.

Prerequisite: None

Laboratory: 1 x 2

Transferability:

UBC no transfer credit  
SFU no transfer credit

**95-180 Play Production 3 credits**

A practical course in acting for the stage and an introduction to theatre production. There will be active involvement as actor and/or technician in a major college production to be performed before a live audience.

Prerequisite: None

Laboratory: 12

No transfer credit

**95-181 Creative Dance Workshop 2 credits**

Practical dance workshop in basic contemporary and jazz, using a technique developed from ballet. Emphasis on creative dance and dance as a form of expression. A broad, general look at the development of dance through practice and participation. Essential for the actor in making his body an expressive instrument; part of the actor's training in non-verbal communication.

Spring and fall semesters.

Prerequisite: None

Laboratory: 2 x 2

Transferability:

UBC 1 unit unassigned credit in Theatre

**95-182 Introduction to Mime Workshop 3 credits**

A practical and theoretical introduction to mime, its techniques, improvisation, and styles; and to the history of the mime (the art form) and mimes (the personalities).

Spring and fall semesters.

Prerequisite: None

Laboratory: 5

Transferability:

UBC no transfer credit  
SFU no transfer credit  
UVic Theatre 260 upon exam by University's department

**95-210\* The Actor and His Style 3 credits**

Advanced course in techniques of acting, reading, interpretation, and enactment of selected scenes from major works and short plays; various styles in acting. Techniques of playing comedy, with participation in a major production. Emphasis on development of character and ensemble playing.

Spring and fall semesters.

Prerequisite: 95-110

Laboratory: 2 x 3

Transferability:

UBC 1½ units unassigned credit in Theatre  
SFU no transfer credit

**95-220\* Dramatic Theory: The Tragi-Comic Vision 3 credits**

Reading and discussion of four major works of dramatic criticism, plus selected plays, showing development of the tragi-comic vision in modern drama.

Spring and fall semesters.

Prerequisite: 95-100

Lecture: 2 Seminar: 2

Transferability:

UBC no transfer credit  
SFU 2 semester hours unassigned credit in English

**95-261\* Advanced Directing 3 credits**

An advanced course in directing for the stage. Through working with scenes and directing short plays, students will gain additional experience in dealing with the practical problems of transferring printed script to the stage. Particular emphasis will be laid on the development of style.

Prerequisite: 95-161

Laboratory: 6

Transferability:

UBC unassigned credit in Theatre (1½ units)  
SFU no transfer credit

**95-310\* Advanced Acting 3 credits**

An advanced course in styles of acting. Reading, interpretation, and enactment of selected scenes from major works and short plays. Emphasis on development of presentation style in acting.

Spring and fall semesters.

Prerequisite: 95-210, or permission of instructor

Laboratory: 2 x 3

Transferability:

UBC 1½ units unassigned credit in Theatre  
SFU no transfer credit

**95-381\* Professional Theatre Work Experience 3 credits**

An apprenticeship program with up to 150 hours work in a professional theatre as actor and/or technician. Students work under supervision and are paid for their services. Work will be carried out at the Arts Club Theatre, Vancouver. A student may register in this course only when work experience is available and he is qualified for it.

Prerequisite: 95-210 or permission of Theatre section supervisor

Corequisite: 95-110

Laboratory: 25

No transfer credit

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\*On leave of absence 1972-73  
 \*\*On leave of absence 1973-74

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