CALENDAR 1971-1972

NEW CALEDONIA

The History of New Caledonia

Simon Fraser founded Fort St. James as a trading post for the Northwest Company in 1806. The post was a thriving centre of commerce in the days when buffalo herds still covered the plains, and there was not a city or town on the western half of the continent north of Mexico. It was the seat of administration for the vast area lying between the Rocky Mountains and the Coast Range and extending from about 51° to 57°N which Fraser named New Caledonia, and as such was the Western Capital.

THE COLLEGE OF NEW CALEDONIA

CALENDAR
1971-1972

2901 - 20th Avenue, Prince George, B.C.
Telephone 562-1321 (Area Code 604)

IMPORTANT DATES AT CNC

1971

SEPTEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

OCTOBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30

NOVEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

DECEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

1972

JANUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
2	3	4	5	6	7	1/8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29				

MARCH

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24	25	26	27	28	29

Shaded dates refer to dates in the College Calendar, page 6

Contents

(As the information contained in this calendar is received well in advance of the academic year it is necessarily subject to revision)

CONTENTS (continued)

CONTENTS (continued)

1971-72 College Calendar

SUMMER 1971

Details on programs and courses offered during the Summer Semester are available in a separate brochure

FALL 1971

July 5 - August 15	Pre-registration interviews for new and returning students
September 6	Labor Day — College closed
September 7	Registration and payment of fees for all *former* students
September 8	Registration and payment of fees for all *new* students
September 8	Orientation for new students
September 9	Classes Commence
September 13	Late registration fees in effect
September 22	Last day for late registration
September 23	Last day for refund of 80% of Fall Semester tuition fees
September 27	Last day for course and section changes
October 7	Last day for refund of 50% of Fall Semester tuition fees
October 11	Thanksgiving day — College closed
November 11	Remembrance day — College closed
November 12	Last day for application for Certificates or Diplomas at end of Fall Semester
November 19	Last day to withdraw without incurring an 'F' grade
November 29	Pre-registration interviews for Spring Semester begins
December 17	Last day of classes — Fall Semester
December 24 - 27	Christmas — College closed

SPRING 1972

January 3, 4	Registration and payment of fees for Spring Semester
January 4	Orientation for new students
January 5	Classes commence
January 10	Late registration fees in effect
January 18	Last day for late registration
January 19	Last day for refund of 80% of Spring Semester tuition fees
January 28	Last day for course and section changes
February 2	Last day for refund of 50% of Spring Semester fees
March 3	Last day for application for Certificates or Diplomas at end of Spring Semester
March 15	Pre-registration interviews for continuing students begins
March 17	Last day to withdraw without incurring an 'F' grade
March 31	Good Friday — College closed
April 3	Easter Monday — College closed
April 21	Last day of classes — Spring semester
May 6	Convocation

PRINCIPAL'S STATEMENT

The College of New Caledonia opened its doors in September, 1969, as the result of the vision and hard work of persons throughout the region. The College is a young, but dynamic institution, with a pioneering spirit among its students, faculty, council and support staff that is contagious.

The student enrollment has increased beyond expectation and courses and programs are frequently added to meet the demand.

At the present time academic transfer courses are offered over a two-year period leading to university enrollment for various degrees, including the B.A., B.Sc., B.Ed., and B. Comm. One and two-year career programs are offered which lead to employment upon graduation. In addition, the extension and adult education programs meet community and regional interests through courses, seminars, dramatic and musical productions, newspaper articles, special lectures, radio and television programs.

There is close cooperation between the College personnel and the various civic organizations. College students and faculty members play a vital role in meeting the needs of our modern society and in planning its future. The New Caledonia Players, The New Caledonia Institute for Environmental Studies, and the College Centennial Series are good examples of the College's interest in the region it serves.

The philosophy of the College is that it remain sensitive and attuned to this region. Thus, the College keeps its "door open" to the public and consistently maintains a sensitivity toward the thousands of persons throughout the central interior who support it.

As a result of planning by the students, faculty and college council, a proposal was submitted to the Department of Education which would hopefully provide the College with its own buildings by the summer of 1971. At the present time the College has some buildings of its own, and rents additional space in the adjoining secondary school.

An excellent faculty, together with a well-stocked library and students with varied experience and backgrounds all contribute to that special spirit which is "New Caledonia". You will be welcome at CNC. I hope you will join us.

F. J. SPECKEEN
Principal

MEMBERS OF THE COLLEGE COUNCIL

J. BOATES	—	Quesnel
A. G. A. BOLTON	—	Fort Fraser
P. CAPEWELL	—	Smithers
D. FRAME	—	Burns Lake
R. B. HAGGERTY (Mrs.)	—	Burns Lake
J. KELLETT (Mrs.)	—	Prince George
M. KNOERR (Mrs.)	—	Smithers
A. W. MOONEY	—	Vanderhoof
C. SABISTON	—	Prince George
D. P. TODD	—	District Superintendent S.D. No. 57, Prince George
E. WESTOVER	—	Quesnel, vice chairman
J. G. WILSON	—	Prince George, chairman
B. J. VAN RHYN	—	Secretary-Treasurer
F. J. SPECKEEN	—	ex officio, Principal

COLLEGE COUNCIL COMMITTEES

A. BOLTON A. W. MOONEY	—	Curriculum
C. SABISTON D. TODD	—	Finance
P. CAPEWELL J. KELLETT (Mrs.) M. KNOERR (Mrs.)	—	Personnel
D. FRAME B. HAGGARTY (Mrs.) J. KELLETT (Mrs.) A. MOONEY E. WESTOVER J. G. WILSON	—	Planning
J. BOATES E. WESTOVER	—	Student Relations

ADVISORY COMMITTEES

BUSINESS ADMINISTRATION

G. Abbott	B.C. Telephone Company, Prince George
M. Brown	Bank of Montreal, Prince George
E. Bliss (Mrs.)	A & B Answering Service
F. Dwyer	Student, CNC
R. Green	B. C. Vocational School
S. R. Higgenson	Eurocan Pulp and Paper Co., Burns Lake
R. Langford	Canadian Labour Congress
D. Larsen	Stag Shop, Quesnel
A. L. Leveridge	Chairman, Career Programs, CNC
D. McIvor	Prince George Pulp & Paper Ltd., Prince George
H. Milne	Harvey Milne Agencies Ltd., Vanderhoof
A. H. Paskewitz	Canada Manpower, Prince George
F. Robinson	Montreal Trust, Prince George
A. Smith	Rigsby Johnston & Company, Quesnel
C. Spicer	C. G. A., Smithers
J. Ullstrom	Gardner McDonald & Company, Prince George
M. Voelkner	Prince George Senior Secondary, Prince George
F. C. Walls	Woodwards Ltd., Prince George

CHEMICAL - METALLURGICAL TECHNOLOGY

O. R. Affleck	Prince George Pulp & Paper Ltd., Prince George
R. Craigie	Inland Chemicals Canada Ltd., Prince George
J. Wesch	Union Oil Co. of Canada Ltd., Prince George
R. Wiseman	Northwood Pulp Ltd., Prince George

DATA PROCESSING

H. F. Hanreider	Northwood Pulp Ltd., Prince George
D. A. Boughey	Northwood Pulp Ltd., Prince George
D. Beardsell	Peat, Marwick, Mitchell and Co., Prince George

EARLY CHILDHOOD EDUCATION

W. Beatty	Rehabilitation & Social Improvement, Prince George
K. La Voie (Miss)	Supervisor of primary instruction, Prince George
L. Mann (Mrs.)	Kindergarten and first grade teacher, Prince George
J. Selody (Mrs.)	Coordinator of Day Care Centres, Prince George
C. Thompson (Mrs.)	Kindergarten teacher, Vanderhoof

FORESTRY

P. Bodman	West Fraser Mills, Quesnel
E. L. de Grace	Industrial Forestry Services, Prince George
D. Flynn	Flynn Brothers, Prince George
W. Gleason	Bulkley Valley Forest Products, Houston
W. Hartley	Tripac Sawmills, Quesnel
W. Haviland	Prince George Pulp & Paper, Prince George
S. Higginson	Surcan Sawmills, Burns Lake
D. Little	Northwood Pulp, Prince George
A. Lloyd	Finlay Forest Products, Prince George
E. Lousier	Lloyd Brothers, Prince George
G. Nielson	B.C.F.P., Mackenzie
R. Sainsbury	Weldwood Company, Quesnel
A. Veness	Canada Manpower, Prince George
W. Young	B.C.F.S., Prince George

ADVISORY COMMITTEES (CONTINUED)

GEOLOGICAL TECHNOLOGY

A. Almond	Vanderhoof
W. Clarke	B.C. Mines & Petroleum Resources, Prince George
R. R. Dion	Cache Resources Ltd., Prince George
E. T. Kimura	Endako Mines Ltd., Endako
R. Trenaman	Mine Manager, Pinchi Lake/Cominco
J. D. Wright	Mine Manager, Endako Mines Ltd., Endako

NATURAL GAS TECHNOLOGY

R. Littledale	West Coast Transmission, Prince George
J. Wesch	Union Oil Co. of Canada Ltd., Prince George
H. Fenske	Inland Natural Gas, Prince George

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The College of New Caledonia

A COMPREHENSIVE COMMUNITY COLLEGE

The College of New Caledonia is one of nine Community Colleges in B.C., and is part of the provincial system of higher education.

It serves primarily the five school districts that comprise the College Region: School Districts 28 (Quesnel), 54 (Smithers), 55 (Burns Lake), 56 (Vanderhoof), and 57 (Prince George). In addition many students from Northern and Western B.C. and from the Yukon attend the College.

As a comprehensive, community educational facility the College offers a varied program to the communities it serves:

* A two year academic program of studies for transfer to third year university
* Two year "Career" programs
* The first year of five B.C.I.T. programs
* General education program
* Non credit short courses, workshops, seminars, and lectures of interest to the Community

College Government

The College Council is the governing body over the College of New Caledonia. It consists of members appointed by the Lieutenant-Governor in Council, and members appointed by the five participating School Boards.

The College Principal is responsible to the College Council for the operation of the College. The Principal receives information and recommendations from a variety of College Committees which include members of the student body, faculty, and administration. The Career Programs and B.C.I.T. transfer programs each have an advisory committee of interested and knowledgable members of the community and College personnel.

History

In 1963 the Northern Interior Branch of the British Columbia School Trustees Association established a Regional College Committee, which recommended the establishment of a two year Community College at Prince George to serve the North Central Interior.

In 1967 a plebiscite to form a College Region was approved by the electors in School Districts 54 (Smithers), 55 (Burns Lake), 56 (Vanderhoof), 57 (Prince George), and 58 (McBride) - McBride School district has since amalgamated with School district 57 (Prince George). In 1968 the electorate in School district 28 (Quesnel) voted in favor of joining the College Region.

The Council of the College of New Caledonia was formed in 1968, and agreed that the College should offer a program of academic and technical courses, and the College opened on September 15, 1969 using the facilities of the Prince George Senior Secondary School.

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Admission Information

ADMISSION REQUIREMENTS

Residents of School Districts 28 (Quesnel), 54 (Smithers), 55 (Burns Lake), 56 (Vanderhoof), and 57 (Prince George) are classified as *in-region* students and are given priority for admission to the College over all other applicants.

Residence Requirements

An *in-region* student is defined as

a) any person 19 years of age or over who on the first day of the current session resides within the boundaries of the above school districts, and has resided there for at least 3 months prior to the first day of the current session.

or b) any person under 19 years of age on the first day of the current session who is a dependent of parents or legal guardians who reside within the boundaries of the above school districts.

or c) any person who is the owner of real property within the boundaries of the above School districts.

— Students who satisfy the residence requirements for any other B.C. College Region are classified as *other region* students.

— Students not able to qualify as *in region* or *other region* students as defined above are classified as *out of region* students.

The responsibility for registering as an *in region, other region* or *out of region* student rests with the applicant. A student who falsifies resident status may be required to withdraw from the College.

Students from Other Countries

Persons from outside Canada must provide proof of landed immigrant status or of application for landed immigrant status.

Applicants from countries where English is not the common language will be required to provide proof of a knowledge of English sufficient to pursue a program of studies at the College prior to being admitted.

ACADEMIC REQUIREMENTS

Students eligible for admission are those who:

a) have graduated from a B.C. Secondary School or equivalent

or b) are deficient in no more than two courses for B.C. Secondary School graduation (which must be completed while attending College).

or c) are over 19 years of age on the first day of the Semester for which admission is sought and have been out of the regular school system for at least one year and whose maturity and experience demonstrate they will be able to succeed in College courses.

ADMISSION PROCEDURES

Students Enrolling in Courses for Credit

a) NEW STUDENTS

(i) Apply to the Registrar for an application form and Calendar. Complete the application form in detail, attach 2 copies of your Secondary School or post-Secondary transcripts and enclose the $10.00 application fee.

Note: Secondary School students are urged to apply for admission as early as possible. A statement from the school that completion of subjects in which the student is enrolled will lead to graduation will be accepted in lieu of a transcript and students will be admitted on a conditional basis. The conditional status will be removed when the College receives the official transcript of secondary school grades which should be forwarded as soon as possible.

(ii) The completed application form, transcripts, and application fee should be submitted to the College *at least* two weeks before the beginning of the Semester to which admission is sought.

(iii) Arrange for a pre-admission interview with a College Counsellor. ALL NEW STUDENTS ARE REQUIRED TO HAVE A PRE-ADMISSION INTERVIEW PRIOR TO ACCEPTANCE.
Interviews will be conducted throughout the region. Local Secondary Schools have information on the dates interviews will be conducted in each community.

(iv) Following the pre-registration interview applications will be processed and students will be notified by mail of their admission to the College.
Detailed registration information including the date and time for registration will be included with the notice of admission.

b) FORMER STUDENTS RETURNING TO COLLEGE

(i) One month prior to the beginning of the Semester in which you wish to enroll contact the Registrar and request a notice of admission and permission to register.

(ii) Consult a Counsellor about appropriate courses.
Detailed registration information will be sent to you with the notice of admission.

Audit Students

Phone or write the Registrar and request permission to register as an audit student in the course (s) that interest you.

You will receive registration information by mail, outlining the date and time at which you should register and pay tuition fees. Priority for space in classes is given to credit students.

REGISTRATION

Students must register in person on the date and at the time indicated on their notice of admission. This date and time of admission is determined by the permanent student number, which is assigned in the order in which applications are received.

Students will not be admitted to the registration area at times earlier than those indicated on their Notice of Admission.

Late Registration

Students who are unable to register at the specified time may register up to the date indicated in the College Calendar as the last date for late registration.

All students registering late will be charged the late registration fee. Final dates for late registration with penalty are:

Fall 1971 ..... September 22nd
Spring 1972 ..... January 18th

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Financial Information

FEES

Tuition and student activity fees are collected each semester. All fees are due and payable at the time of registration.

A. FULL-TIME STUDENTS: (Students enrolled in 15 or more credit hours)

a) *In region* and *other region* students

Tuition	$125.00	
Student Activity fee	12.50	
	$137.50	per Semester

b) *Out of region* students

Tuition	$175.00	
Student Activity fee	12.50	
	$187.50	per Semester

B. PART-TIME STUDENTS (Students enrolled in fewer than 15 credit hours)

Per course - Tuition	$25.50	
Per course Student Activity fee	4.50	to maximum $12.50
	$30.00	per Semester

Note: Part-time students enrolled in other than 3 credit hour courses will be charged fees as follows:

Tuition	$ 8.50	per credit hour
Student Activity fee	1.50	per credit hour to maximum $12.50
	$10.00	per Semester

C. AUDIT STUDENTS

Per Course - Tuition	$15.00	per Semester

Application Fee

$10.00 payable at the time of the initial application.

Applications will not be processed without the application fee. This fee is not refundable, but is applied to the student's first semester tuition fees.

Payment of Fees

Fees are due and payable at the time of registration. Students who are unable to pay their fees at the time of registration should arrange with the Bursar to pay within fourteen days of the commencement of classes.

Students whose fees are not paid within fourteen days of the commencement of classes may be required to withdraw from the College.

Estimated Semester Expenses

Full-time students should be aware of all the expenses they should budget for each semester.

Costs may be estimated as follows:

Tuition Fees	$125.00
Student Activity fee	12.50
Books and Supplies	60.00
Local Transportation	42.50
Miscellaneous	100.00
	$340.00

The cost of room and board for students from outside Prince George generally ranges from $85.00 - $100.00 per month. (See Subsidy, page 29).

Miscellaneous Fees

Late registration	$ 5.00	per course to maximum $25.00
Grade appeal	5.00	
Duplicate Transcript	2.00	(3 copies)
Duplicate Diploma	3.00	
Reinstatement fee	10.00	
Library and I.D. card duplicate	1.00	

Some courses may require an assessment for supplies or activities required as part of the course.

Sponsored Students

Students whose fees will be paid by sponsoring agencies are required to present a letter to this effect from the agency concerned at the time of registration.

Refunds

A complete refund of fees is made only when a course or program is cancelled.

Scale of Withdrawal Refunds (See College Calendar for specific dates)

(a) Withdrawal within two weeks after the commencement of classes	80% refund
(b) Withdrawal within four weeks after the commencement of classes	50% refund
(c) Withdrawal more than four weeks after the commencement of classes	No refund


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Academic Information

Academic Standing

Students are assigned an academic status at the beginning of each Semester. All students with a current grade point average of 0.59 or lower will not be permitted to continue in the following Semester. Students with a current grade point average between 0.59 and 1.50 will automatically be assigned probationary status for the following Semester.

The minimum requirement for completion of any C.N.C. program is a cumulative grade point average of 2.0 (*See also Status of Students*)

Advance Standing

Students who have completed post-secondary courses in other institutions may be given credit for these courses at C.N.C. Such students who plan to transfer to another institution following the completion of a program at C.N.C. are advised to request an equivalent evalution of these courses from this senior institution prior to enrolling at C.N.C. Following this procedure will avoid complications at the time of transfer. Students with questions on advance standing should consult with the Registrar well before the beginning of the Semester in which they will be registering.

Attendance

Students are expected to attend all classes in which they are registered. Since the College follows a policy of *continuous evaluation* in determining the grades of students, regular attendance is essential for success. For students claiming the C.N.C. subsidy, or studying through the benefits of bursaries or loans, full time attendance is one condition for their continuation.

Auditing a Course

Audit students are not formally registered in a college program, but take courses for self-improvement and general interest. They are not required to complete assignments and receive no grade or credits for courses taken.

Change of Course or Section

Students contemplating changing courses should consult with a counsellor to avoid enrolling in courses that do not satisfy the requirements for the program they are pursuing. All course and section changes require College approval, and will only be permitted during the periods indicated below.

1971 - Fall Semester September 9 - September 27
1972 Spring Semester January 5 - January 28

Procedure to Follow When Making a Change:

1. Consult the instructors involved in the change.
2. Obtain and complete a Change of Course or Section form available from the Registrar's office.
3. Obtain a counsellor's signature in the case of a course change.
4. Return the form to the Registrar's Office

College Certificate

A C.N.C. Certificate is awarded to students who satisfactorily complete a prescribed College program of less than four Semesters, providing they have a cumulative grade point average of 2.0 or higher.

College Diploma

A C.N.C. Diploma is awarded to students who complete either:

The requirements of a College Career program of at least four Semesters with

a pass grade in each specified course and with a cumulative grade point average of 2.0 or higher.

or:

A General Arts or Science program of at least four Semesters and have satisfied the following requirements:

- 12 credit hours of English
- 18 credit hours in one discipline
- 6 credit hours in a lab Science for a humanities student
- 6 credit hours in the humanities for a science student
- a minimum of 24 credit hours in courses numbered 200 or higher
- have completed a minimum of 60 credit hours of work with a cumulative grade point average of 2.0 or higher

or:

The requirements of a University Transfer program of at least 60 credit hours of work that will permit transfer into third year university in a recognized degree program, and have a cumulative grade point average of 2.0 or higher.

Note: Students who enroll in a C.N.C. diploma program with advance credit for courses taken elsewhere must complete a minimum of 24 credit hours of work at C.N.C., of which 18 credit hours must be in courses numbered 200 or higher, to qualify for a C.N.C. diploma.

Students who expect to complete the requirements for a certificate or diploma are required to complete an application for graduation form available from the Registrar's Office. Completed forms should be returned to the Registrar's Office by November 12 for students who expect to graduate at the end of the Fall Semester and by March 3 for those who expect to graduate at the end of the Spring Semester.

Credit Hours

One credit hour represents one hour per week of classroom work. Most courses offered are three credit courses. As such they require three class hours per week, together with required study in laboratories, seminars, or tutorials. A full- time student is normally enrolled in 15 or more credit hours of work each semester.

Evaluation and Grading

To ensure maximum involvement of the student in the learning process, C.N.C. follows a policy of *continuous evaluation* in determining the grades. There is no single final examination.

Grades and Grade Points

C.N.C. uses alphabetic symbols to report academic success. Each grade is assigned a numerical weight or grade point, that is used to determine the grade point average.

C.N.C. uses the following letter grades and grade points:

Letter Grade		Grade Points
A	Distinguished Achievement The student distinguishes himself consistently in examinations, reports, and class participation	4
B	Above Average Achievement The student exhibits consistent mastery of the course and is able to relate the course content to other knowledge	3
C	Average Achievement The student exhibits sufficient comprehension of the subject matter to indicate success in more advanced courses in the same field	2

D	Below Average Achievement The student is granted College credit for the course but cannot be guaranteed credit for the course in another institution	1
F	Fail - No credit granted	0
I	Incomplete Grade and credit withheld until all requirements of the course have been met. Normally this will require completion within 4 weeks of the last day of classes or an 'F' grade will be assigned	*
T	Advance Standing Credit granted on the basis of work completed elsewhere	*
W	Withdrawn A 'W' grade will be assigned only to those students completing the Withdrawal procedure outlined, and within the time limits specified in the College Calendar	*

* Not included in the calculation of the grade point average.

Grade Point Average (G.P.A.)

Grade point averages are reported on each Statement of Grades. The transcript includes the cumulative grade point average.

The G.P.A. is the sum of the grade points earned multiplied by the number of credits and divided by the number of credit hours taken.

Example:

Course	*Credit Hours*	*Letter Grade*	*Grade Points*	*Grade Points x Credit Hours*
1	3	A	4	12
2	3	B	3	9
3	4	C	2	8
4	2	D	1	2
5	3	F	0	0
	15			31

G.P.A. equals 31/15 equals 2.07

Repeating a Course

Courses may be repeated for the purpose of raising grades. Credit will be granted for the higher grade achieved, but both grades will be recorded on the student's permanent record.

Statement of Grades

At the end of each semester a statement of grades is mailed to each student enrolled in a course for credit.

All obligations relating to fees, library books or fines, rentals, loans, etc. must be met before any statement of grades, transcript, certificate or diploma will be released.

Status of Students

a) GEOGRAPHIC

At the time of admission students are assigned *in-region, other-region,* or *out-of-region* status. (See Admission Information - residence requirements). Students whose geographic status changes after admission should notify the Registrar.

b) ACADEMIC

All students are assigned an academic status at the beginning of each Semester. This status is determined by the student's previous level of success.

(i) Adequate Status - assigned to new students who have completed all formal prerequisites for admission to the College and to continuing students with a current grade point average of 1.5 or higher.

(ii) Conditional Status - assigned to new students who have not submitted transcripts of previous education, or who are required to complete one or two secondary school courses. Students will not receive an official transcript until the condition for admission has been satisfied.

(iii) Probationary Status - assigned in each of the following situations:
- to mature students who have not completed secondary school.
- to students whose previous academic achievement cannot be accurately assessed.
- to students whose current grade point average is between 0.60 and 1.49 (inclusive). Such students may be required to enroll in a reduced course load, and if this is the second consecutive semester when the student's grade point average was between 0.60 and 1.49, may be required to withdraw.

(iv) Audit Status - assigned to students taking a course for interest only. Audit students do not receive grades or credit for courses taken.

Transcripts

The Official Transcript includes a record of the student's grades for all courses attempted at the College, and is imprinted with the College Seal and signed by the Registrar. One transcript will be issued to students upon request, free of charge. Additional copies may be obtained from the Registrar's Office. Fee $2.00 for 3 copies. The College will forward transcripts to other institutions or potential employers, etc., only with the specific permission of the student involved.

Transfer to Other Institutions

A booklet outlining the specific courses to which C.N.C. courses transfer at various institutions in B.C. available from the Registrar's Office.

Students contemplating transfer to another institution should consult the Calendar of the institution to which they intend to transfer and ensure that their program of studies at C.N.C. will allow for such transfer.

C.N.C. Counsellors will assist students to select courses that will permit easy transfer to other institutions, but the final responsibility for a selection of courses remains with the student.

In addition to the transfer program listed in Section 6 of this Calendar all B.C. Community Colleges accept each others courses upon transfer.

Withdrawal

Students who wish to withdraw from a course or program of study without incurring an 'F' grade must complete the withdrawal form available from the Counsellor.

Students may withdraw and receive a 'W' grade between the following dates:

Fall Semester, 1971	September 9	November 19
Spring Semester, 1972	January 5	March 17

Students who withdraw after these dates will receive an 'F' grade for all courses in which they are registered.

Students with a current grade point average of 0.59 or lower will be required to withdraw for at least one Semester.


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5
General Information

Bookstore

The College operates a small bookstore for the convenience of students. It sells prescribed texts for C.N.C. courses and supplementary supplies.

Change of Name or Address

It is the responsibility of the Student to advise the Registrar's Office of any change of name or address or telephone number from the information provided on the application form. Unless the student requests otherwise, statements of grades and other official college correspondence will be sent to the student's permanent home address.

Financial Assistance

GOVERNMENT OF B.C. SCHOLARSHIPS

Scholarships will be granted for amounts representing one third to three quarters of tuition fees. To be eligible a student must have completed secondary school graduation and be enrolled in at least 15 credit hours of College work. Mature entry students may qualify after one semester.

Students completing secondary school should apply for a B.C. Government Scholarship through their secondary school. Applications must reach Victoria by May 31, 1971.

Scholarships are awarded to College students on the basis of current Semester results and are applied to fees in the subsequent semester at the College.

Applications must be filed not later than May 14, 1971 for Scholarships to be applied to the Fall Semester, and by January 3, 1972 for Scholarships to be applied to the Spring Semester. Application forms are available from the Registrar's Office.

GOVERNMENT BURSARIES

The government of B.C. (with a contribution from the federal government) provides funds annually for bursaries to be awarded to students who show financial need. These awards are made primarily to students entering their first year. Applicants must have completed Secondary School graduation with an average not lower than 65%, must be enrolled in at least 15 credit hours of College work, and must undertake to attend for two consecutive semesters. Applications must be submitted by July 1st each year.

CANADA STUDENT LOAN

Loans up to $500 are available each Semester and are interest free until six months after completion of a post-secondary degree or diploma program.

To be eligible for the Canada Student Loan the applicant must be enrolled in a full-time program of studies.

Loans are only granted after the student is formally enrolled in a full-time program, students must therefore have sufficient funds to pay for fees and books at registration. Loans are made for educational purposes only, and the amount granted will be based upon demonstrated financial need.

A brochure outlining the full details of the Canada Student Loan plan and application forms are available from the Registrar's Office.

I.B.M. SCHOLARSHIP

I.B.M. annually awards a scholarship to the value of $200 to a student entering the third semester of the Data Processing Program.

Application forms are available from the Registrar's Office and must be submitted by May 31 each year.

ROTARY EMERGENCY LOAN FUND

The Prince George Rotary Club have donated a sum of money from which students may be granted emergency short term loans of up to $50.00.

Applications will only be accepted from students who have exhausted all other avenues of financial assistance, but require a small loan for emergency purposes and can give specific assurance that the loan will be repaid within the time specified on the application. Application forms are available from the Registrar's Office.

CANADIAN INSTITUTE OF MINING AND METALLURGY SCHOLARSHIPS

Two $250.00 scholarships are offered to students intending to make a career in the mineral industry. These scholarships are available to first year students in Geological Technology, or to first year science students planning to proceed to a degree in mining engineering or other careers in the mining industry.

Application forms are available from the Registrar's office and must be submitted by July 1.

Note: Several major mining companies provide scholarships and bursaries to students enrolling in programs leading to careers in the mineral industry.

For further information contact the Registrar's office.

C.N.C. SUBSIDY

The College Council has established an accommodation subsidy for *in-region* students whose permanent residence is more than 20 miles from the College and are enrolled in 9 or more credit hours of College work.

The subsidy is paid to such students at the end of each month they are in regular attendance in classes in which they are registered at the following rates:

Students enrolled in 9 credit hours $30.00 per month.

Students enrolled in 12 or more credit hours $40.00 per month.

To receive the C.N.C. Subsidy a student must:

a) Apply to the Registrar for the C.N.C. Subsidy
b) Prove his permanent residence is *in-region* and more than 20 miles from the College if requested to do so
c) Be formally enrolled in the specific number of credit hours of College work
d) Regularly attend classes

Identification Cards

Student identification cards are obtained at the time of registration. In the event of the loss of an identification card a duplicate may be obtained from the Registrar's Office upon application and the payment of one dollar.

Library

The College library has developed as a resource center with a large collection of books, periodicals, microfilms, government documents and other materials. Personal assistance is available at all times from the Library staff. Library services are only available to individuals who possess current C.N.C. library cards, issued at time of registration.

Library Cards

C.N.C. library cards are obtained at the time of registration. Students are required to present this card when making use of library facilities. In the event of the loss of his library card the student should immediately notify the library and apply for a duplicate card. Fee one dollar.

Permanent Student Number

A permanent student number is assigned to each student at the time of admission which remains unchanged. This number should be referred to in all correspondence with the College.

Student Activity

All students enrolled in credit courses at C.N.C. are required to pay a student activity fee which entitles them to membership in the C.N.C. student association.

The student association elects fifteen representatives to serve as a Student Council which represents the student body in relations with the College faculty and administration, the College Council, and the Community.

The Student Council is responsible for student affairs and also appoints students to serve on various College Committees that assist the Principal in the formulation of College policy. A wide variety of clubs and activities are sponsored by the student association including:

- QUUN - the bimonthly student newspaper
- Annual Club
- Athletics Club
- Bridge Club
- Chess Club
- Civil Liberties Association
- Creative Writing Club
- Curling Club
- Film Club
- Flying Club
- Forestry Club
- Marksmanship Club
- Outdoors Club
- Photography Club
- Radio Club
- Travel Club
- Women's Caucus

In addition the College Special Events Committee offers a program of guest speakers and special events, and the Theatre Department sponsors the New Caledonia Players which produces a variety of theatrical productions each semester.

Student Services

Facilities and staff are available through the Registrar's Office to assist students with a variety of problems, including vocational, personal, social, financial, and academic problems. Students requiring any kind of assistance are urged to make use of the resources available through this office.

Services offered include:

INFORMATION

a) Information to secondary school students on post-secondary education opportunities
b) Occupational and career information
c) Information on institutions to which C.N.C. graduates may wish to transfer, and the admission policies of these institutions
d) Information on C.N.C. programs, courses, policies, and procedures

GUIDANCE AND COUNSELLING

Skilled counsellors are available to assist students with the selection of a vocational goal, college programs, transfer to other institutions, academic difficulties, and personal problems.

EMPLOYMENT

In cooperation with the Department of Manpower the College operates a student placement service for part-time employment during attendance at the College and full time employment following graduation and between Semesters.

HOUSING

The College does not operate any student residences, but does compile a list of boarding houses and small apartments available at the beginning of each semester. No recommendation is made regarding the quality of accommodation offered.

ORIENTATION

A program designed to assist students to become familiar with College facilities and services and to help in adjustment to College methods of teaching, learning, and study is offered to new students at the beginning of each semester.

REMEDIAL PROGRAMS

Short courses are offered from time to time to assist students with reading problems and with problems writing term papers and other assignments, etc. Students with such problems should contact the Counsellor.

SCHOLARSHIPS, LOANS, AND BURSARIES

The Registrar's Office maintains current information on sources of aid for students with financial problems. (See also 'Financial Assistance').

6

College Programs of Study

A CAREER PROGRAMS

Note: A short extension to the second semester may be necessary in the B.C.I.T. transfer programs to complete field work and equate the number of hours instruction with B.C.I.T. requirements.

Business Administration

The accelerated changes in technology and the applications of that technology in recent years has greatly increased the complexity of modern business. Consequently, to maintain its ability to compete, all levels of management have had to rely on a more sophisticated approach.

Many of the skills required by business are best acquired on the job, however, it has been adequately demonstrated over the past several years that skills and knowledge acquired in a two year commerce program more than pay for themselves in higher salaries, faster promotion and greater ability to adjust to the business environment.

The first year concentrates on the development of basic skills and techniques while in the second year emphasis is placed on the application of the acquired principles and concepts to specific business cases.

SEMESTER 1	
Accounting Systems I	BUS 151-3
Business Organization I	BUS 153-3
Introduction to Economics	ECON 151-3
Communication	ENGL 151-3
Business Mathematics	MATH 153-3
Human Relations	PSYC 153-3
SEMESTER 2	
Accounting Systems II	BUS 152-3
Business Organization II	BUS 154-3
Business Law	BUS 163-3
Communication	ENGL 152-3
Business Statistics	MATH 155-3
Industrial Relations	BUS 164-3
SEMESTER 3	
Canadian Financial Management I	BUS 257-3
Canadian Economic Problems	ECON 152-3
Mathematics of Finance	MATH 154-3
Principles of Supervision	PSYC 253-3
Business Elective	3 credits
Elective	3 credits
SEMESTER 4	
Policy Making	BUS 255-3
Governmental Processes and Decision Making	BUS 256-3
Canadian Financial Management II	BUS 258-3
Business Electives (2 courses)	6 credits
Elective	3 credits
BUSINESS ELECTIVES*	
Systems Analysis	EDP 253-3
Business Uses of the Computer	EDP 255-3
Marketing	BUS 271-3
Production	BUS 272-3
Distribution	BUS 273-3
Personnel Management	BUS 274-3

* *Offered subject to demand*

Suitable selection of electives will permit the student to concentrate in his major area of interest.

Chemical and Metallurgical Technology

The program in Chemical and Metallurgical Technology provides instruction to those men and women wishing to enter the process industries—either in the laboratory, in the production department, in the engineering department, or in the technical sales department. As the technology encompasses a broad range of industries and sciences, the training emphasizes mathematics, physics, and chemistry, and their application to general problems occurring in the chemical process industries, rather than to specific problems peculiar to a single industry.

Students enrolling in the Chemical and Metallurgical Technology program at C.N.C. transfer at the completion of their first year to the British Columbia Institute of Technology for the second and final year.

In the second year at B.C.I.T. the student is given the choice of one of the following options: Industrial Chemistry, Physical Metallurgy, Extractive Metallurgy, or Pollution Treatment.

Students seeking admission to this program should include the following courses in their Secondary School program: Math 12, Chemistry 11, Physics 11.

SEMESTER 1

Chemistry	CHEM 153-3
Communication	ENGL 151-3
Mathematics	MATH 151-3
Engineering Materials	TECH 151-3
Drafting	TECH 153-3
Technical Physics	PHYS 151-3
Business	BUS 162-3
Laboratory Workshop	CHEM 171-3

SEMESTER 2

Chemistry	CHEM 154-3
Communication	ENGL 152-3
Mathematics	MATH 152-3
Engineering Materials	TECH 152-3
Drafting	TECH 154-3
Technical Physics	PHYS 152-3
Chemical Lab Techniques	CHEM 162-3
Unit Processes and Environmental Sampling	CHEM 172-3

Second Year - B.C.I.T.

Data Processing

The increasing need to assemble and interpret vast amounts of information has resulted in tremendous expansion in the field of data processing. The electronic computer is now being used in virtually every area of business and industry. The computer is also being used extensively in scientific engineering and research projects.

The application of the computer to business problems requires a great deal of human planning and preparation. Information processing must be both timely and accurate. The computer is a versatile and useful calculating facility but it must be given careful and detailed instructions. This requires analyzing the situation and defining the problem, formulating a solution, and expressing the solution in terms the computer can understand.

The Data Processing Program is a two year program designed to prepare the individual for employment as a computer operator, data processing equipment operator, programmer, or systems analyst.

The program is intended to conform to the requirements of the Data Processing Management Association and to enable the student, with further study and experience, to qualify for the professional certificate in Data Processing.

SEMESTER 1

English	ENGL 151-3
Business Mathematics	MATH 153-3
Data Processing Fundamentals	EDP 151-3
Accounting	BUS 151-3
Business Organization and Management	BUS 153-3
Economics	ECON 151-3
Psychology	PSYC 151-3

SEMESTER 2

English	ENGL 152-3
Statistics	MATH 155-3
Computer Programming I	EDP 152-3
Accounting	BUS 152-3
Business Organization and Management	BUS 154-3
Economics	ECON 152-3
Psychology	PSYC 152-3

SEMESTER 3

Mathematics of Finance	MATH 154-3
Cost Accounting	BUS 253-3
Computer Programming II	EDP 251-3
Systems Analysis	EDP 253-3
Business Uses of Computers	EDP 255-3
Social Science Elective	3 credits

SEMESTER 4

Business Law	BUS 163-3
Computer Programming III	EDP 252-3
Systems Design	EDP 254-3
Business Elective*	3 credits
Case Studies	EDP 256-3
Social Science Elective	3 credits

* *See electives listed after Business Administration Program page* 34.

Early Childhood Education

Graduates of the Early Childhood Education program qualify for the Provincial license to teach in private day care centres, day nurseries, or Kindergartens. Completion of this program does not qualify the student to teach Kindergarten in the public school system. The provincial license is obtained at the completion of the first year of the program. Completion of the second year qualifies the graduate for supervisory positions in pre-school programs.

Students receive classroom instruction and practical experience in working with pre-school children. At the completion of the first year of the program students could find employment and complete the second year of the program on a part-time basis. Second year courses supplement the first year courses and offer more specialization.

Students admitted to this program must present a medical certificate.

SEMESTER 1

Communication	ENGL 151-3
Child Growth and Development	ECE 151-3
Philosophy of Early Childhood Education	ECE 154-3
Art Experiences	ECE 161-3
Science and Social Science	ECE 163-3
Observation of pre-school	ECE 170-3
Psychology	PSYC 151-3

SEMESTER 2

Communication	ENGL 152-3
Parent-Teacher Relations	ECE 153-3
Music and Rhythm	ECE 162-3
Language Arts	ECE 164-3
Practicum	ECE 190-3
Psychology	PSYC 152-3

The following second year courses may be offered during the 1971-72 academic year subject to sufficient enrollment.

Organization and Administration of pre-schools	ECE 241-3
Guidance of the Young	ECE 242-3
Family Life	ECE 251-3
Special Education	ECE 253-3
Health and Nutrition	ECE 262-3
Practicum	ECE 290-3

Students may enroll in these courses on a part-time basis.

Forest Products Technology

The modern forest industry of British Columbia offers challenging and rewarding employment to conscientious young people with ability and training. The demand increases yearly as the application of new technology continues in the pulp, newsprint, plywood, sawmill, and particleboard industries.

The objectives of the Forest Products Program are to qualify technologists for various manufacturing operations and to prepare them for responsible positions in British Columbia's largest industry. For example, young men with a good knowledge of technological advances and their application are needed in plant process operations, plant management, research and development, technical services, and sales.

Students enrolling in the Forest Products Technology program at C.N.C. transfer at the completion of their first year to the British Columbia Institute of Technology for the second and final year.

Students seeking admission to this program should include the following courses in their Secondary School program: Math 12, Chemistry 11.

SEMESTER 1

Chemistry	CHEM 153-3
Communication	ENGL 151-3
Mathematics	MATH 151-3
Engineering Materials	TECH 151-3
Drafting	TECH 153-3
Technical Physics	PHYS 151-3
Forest Science and Utilization	FOR 151-3

SEMESTER 2

Chemistry	CHEM 154-3
Communication	ENGL 152-3
Mathematics	MATH 152-3
Engineering Materials	TECH 152-3
Drafting	TECH 154-3
Technical Physics	PHYS 152-3
Introduction to Wood Processing	FOR 153-3

Second Year - B.C.I.T.

Forest Resource Technology

The Forest Resource Technology program provides technical training in the skills and techniques required for a career in resource management, forest harvesting, and forest utilization. The training emphasises the organization and supervision of log production, costs, accounting, logging systems, and their application in B.C.

Students enrolling in the Forest Resource Technology program at C.N.C. transfer at the completion of their first year to the British Columbia Institute of Technology for the second and final year. Courses are oriented towards outdoor labs and an emphasis is placed on production techniques.

Students seeking admission to this program should include the following courses in their Secondary School program: Math 12, Chemistry 11.

SEMESTER 1

Communication	ENGL 151-3
Mathematics	MATH 151-3
Data Processing Fundamentals	EDP 151-3
Forest Science I	FOR 151-3
Forest Measurements I	FOR 161-3
Fire Control I	FOR 165-3
Photogrammetry I	FOR 171-3

SEMESTER 2

Communication	ENGL 152-3
Statistics	MATH 155-3
Biology	BIO 152-3
Forest Science II	FOR 152-3
Forest Measurements II	FOR 162-3
Fire Control II	FOR 166-3
Photogrammetry II	FOR 172-3

Second Year - B.C.I.T.

Geological Technology

Canada has over the past decade become one of the world's major producers of minerals and metals, including asbestos, potash, copper, lead, zinc, iron, nickel and molybdenum.

Continuing exploration activity in British Columbia and the Yukon has established the College region as one of the most promising mineral bearing areas on the continent, and a number of major discoveries will undoubtedly increase mining activity and the need for qualified technologists.

As mining deposits become harder to find, exploration techniques become increasingly more sophisticated, and mining operations generally are tending toward larger and more highly technical operations.

As a result the mineral industry of Canada provides unusual and continuing opportunities for employment in its technical occupations and in its production supervision.

Students wishing to enter this program should be able to get along with other people and be willing to travel or work in smaller communities. They should also be in good health and must be able to pass a medical examination and standard chest X-ray if they wish to work in or around a mine.

Students take a basic first year program at C.N.C. and then transfer into the second and final year of the British Columbia Institute of Technology - Mining Technology Program, for more specialized instruction. Graduates interested in further training may be able to take advantage of B.C.I.T.'s transfer arrangements with the Colorado School of Mines.

Students seeking admission to this program should include the following courses in their Secondary School program: Math 12, Chemistry 11.

SEMESTER 1

Chemistry	CHEM 153-3
Communication	ENGL 151-3
Mathematics	MATH 151-3
Technical Physics	PHYS 151-3
Drafting	TECH 153-3
Geology	GEOL 151-3
Mining I	GEOL 153-3
Surveying I	SURV 151-3

SEMESTER 2

Chemistry	CHEM 154-3
Communication	ENGL 152-3
Mathematics	MATH 152-3
Technical Physics	PHYS 152-3
Drafting	TECH 154-3
Geology	GEOL 152-3
Mining II	GEOL 154-3
Surveying II	SURV 152-3

Second Year - B.C.I.T.

Natural Gas and Petroleum Technology

The gas and oil industry offers a wide variety of employment opportunities for a qualified technician. The transmission branch of the industry, involving the operation of pumping stations and maintenance of pipe-lines over vast areas, offers graduates opportunities for outdoor work in remote regions. On the other hand the refining branch of the industry, usually located in more populous areas, offers a stable source of interesting work. The industry as a whole is one of the most modern and up-to-date and is constantly introducing the latest technological improvements. Thus, there is every opportunity for a keen technician to advance in an interesting and profitable vocation.

Students enrolling in the Natural Gas and Petroleum program at C.N.C. transfer at the completion of their first year to the British Columbia Institute of Technology for the second year and final year.

The first year courses offered at C.N.C. include basic scientific and engineering principles as a foundation for subsequent specialized petro-chemical training, and a brief orientation course in business practices.

Students seeking admission to this program should include the following courses in their Secondary School program: Math 12, Chemistry 11, Physics 11.

SEMESTER 1

Business	BUS 162-3
Chemistry	CHEM 153-3
Communication	ENGL 151-3
Mathematics	MATH 151-3
Geology	GEOL 151-3
Engineering Materials	TECH 151-3
Technical Physics	PHYS 151-3
Surveying	SURV 151-3

SEMESTER 2

Chemistry	CHEM 154-3
Communication	ENGL 152-3
Mathematics	MATH 152-3
Geology	GEOL 152-3
Technical Physics	PHYS 152-3
Introduction to Machine Tools	TECH 162-3
Introduction to Work Study	TECH 172-3

Second Year - B.C.I.T.

B COLLEGE PREPARATORY PROGRAM FOR ADULTS

Adults wishing to complete prerequisite courses for admission to the College or full grade 12 standing are advised to contact their local adult education director for information.

C COMMUNITY PROGRAM

This is a non credit program of lectures, forums, panels, arts, and performing arts events of interest to the general community. It includes any College course offered which may be taken by any member of the community on an audit basis.

In cooperation with local Adult Education departments a variety of programs and events will be offered in the communities that comprise the College region.

The Community service program each semester will be announced through local adult education offices, special brochures, and other publicity.

D GENERAL EDUCATION PROGRAM

Students who wish to enroll in a College program to obtain a wider educational background, but are not interested in transfer to a university or a specific career program may select a variety of university transfer and career program courses of interest to obtain a College Diploma. Detailed requirements of such a program should be checked with a counsellor during the pre-admission interview.

E UNIVERSITY TRANSFER PROGRAM

The College offers a variety of courses that permit a student to complete up to two years of a degree program at C.N.C. before transferring into the third year at a university.

Students pursuing any of the following degrees should transfer to university at the completion of two semesters:

Dental Hygiene
Engineering
Forestry
Home Economics
Nursing
Physical Education
Rehabilitation Medicine

Students may complete four Semesters at C.N.C. before transferring to university to complete the following degree programs:

Agriculture
Arts
Commerce
Dentistry
Education
Law
Medicine
Pharmacy
Science

Students enrolling in a University Transfer Program are strongly advised to consult the Calendar of the institution to which they intend to transfer at the completion of their studies at C.N.C. and note any specific courses required during the first two years of the program.

Calendars of major institutions are available from Secondary School counsellors, the C.N.C. Library, or the College Counselling area.

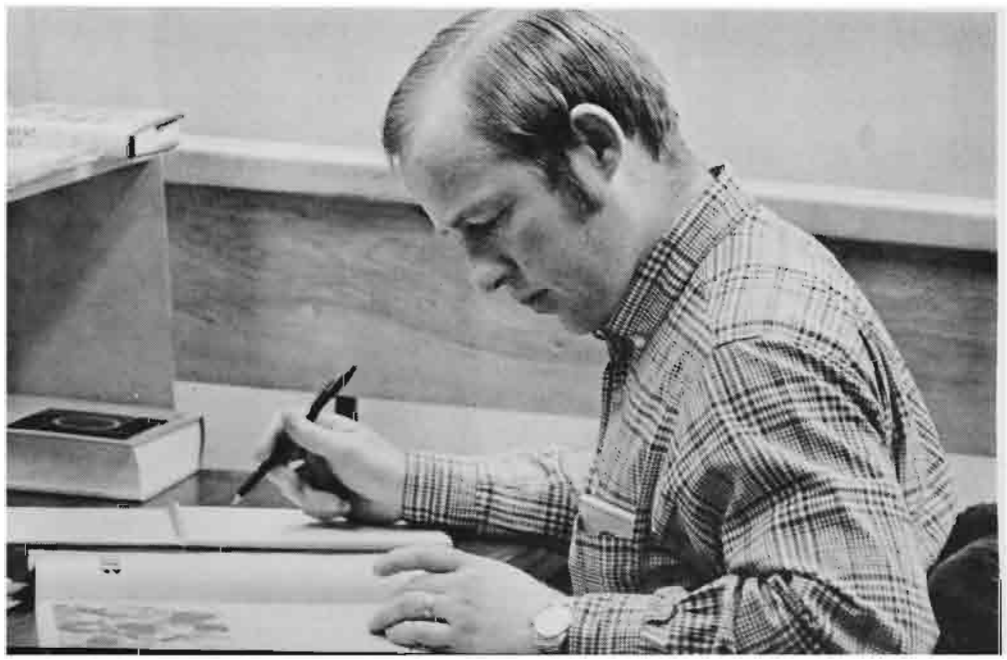
During the first two semesters of a University Transfer program students will normally enroll in 15 credit hours of work each semester and include the following courses:

Arts transfer:	English 101-3 and 102-3 Two semesters of a lab science. Electives to satisfy prerequisites for a major.
Commerce transfer:	English 101-3 and 102-3 Math 101-3 and 102-3 or Math 103-3 and 104-3 Economics 101-3 and 102-3 Arts electives.
Education transfer: (elementary)	English 101-3 and 102-3 History 103-3 and 104-3 Two semesters of a lab science. Electives to satisfy prerequisites for teaching majors.
Science transfer:	English 101-3 and 102-3 Math 101-3 and 102-3 Two semesters each of physics and chemistry. Electives to satisfy prerequisites for major.

A typical first year program for a B.A. transfer program might include:

SEMESTER 1	SEMESTER 2
English 101-3	English 102-3
Geology 101-3	Geology 102-3
History 101-3	History 102-3
Philosophy 101-3	Philosophy 102-3
Sociology 101-3	Sociology 102-3

The specific courses required for each student to meet transfer requirements will be discussed during the pre-admission interview.



STANDARD COURSE ABBREVIATION

The following abbreviations are used for courses offered at the College:

Anthropology	ANTH
Art	ART
Biology	BIO
Business	BUS
Chemistry	CHEM
Classics	CLAS
Drafting	DRAF
Early Childhood Education	ECE
Economics	ECON
Data Processing	EDP
English	ENGL
Forestry	FOR
French	FREN
German	GERM
Geography	GEOG
Geology	GEOL
History	HIST
Mathematics	MATH
Music	MUS
Philosophy	PHIL
Physics	PHYS
Political Science	POSC
Psychology	PSYC
Sociology	SOC
Surveying	SURV
Technology	TECH
Theatre	THT
Zoology	ZOO

Course Numbering

Each course is identified by a four digit number, for example: English 101-3

The first three digits identify the course, the last digit (3 above) indicates the number of credit hours the course carries. The first three digits are coded in the following way:

Number 001-099 College preparatory and community service courses. These courses carry no credit.

Number 100-149 Courses normally taken in the first and second semester of a University Transfer program.

Number 150-199 Courses normally taken in the first and second semester of a College Career Program. Not transferable to a University.

Number 200-249 Courses normally taken in the third and fourth semester of a University Transfer program.

Number 250-299 Courses normally taken in the third and fourth semester of a College Career Program. Not transferable to a University.

Students may register only in those courses for which they have the specific prerequisite, and University Transfer Program students are reminded to check the transfer guide to ensure courses they are taking at C.N.C. satisfy the requirements of the institution to which they wish to transfer.

The letter (F) or (S) after the course title indicates in which semester the course will be offered: (F) Fall; (S) Spring.

The number in parenthesis at the end of the course description indicates the number of lecture hours and lab or seminar hours per week.

Thus (3,2) - 3 hours lecture and
2 hours lab or seminar per week.

7

College Courses

ANTH 201-3 SOCIAL STRUCTURE I - ETHNOGRAPHY (F)
Review of social structural theory and method. Survey of social structural ethnographies and the examination of societies of various subsistence bases, geographical milieu, kinship organizations, and political structures.
Prerequisites: Anthropology 101-3, 102-3 or equivalent. (3,0)

ANTH 202-3 SOCIAL STRUCTURE II - THEORY AND METHOD (S)
Examination of major concepts used in structural anthropology (role, social structure, institution, etc.). Use of concepts in comparative work. Examination of research techniques and research problems.
Prerequisite: Anthropology 201-3 (3,0)

ART 101-3 DESIGN FUNDAMENTALS I (F)
An introductory course in which the student is introduced to various techniques, skills and theory of design. Composition, basic design theory and graphics are the major areas of investigation. Throughout the course the emphasis will be on design form in two and three dimensions. (2,6)

ART 102-3 DESIGN FUNDAMENTALS II (S)
This semester complements the Fall offering in that it allows the student to develop fully his personal sense of imagery in either two dimensional or three dimensional scale. The emphasis is on form, developed in conjunction with textile arts and ceramics.
Prerequisite: Art 101-3 (2,6)

ART 103-3 HISTORY OF ART I (F)
This introductory course examines the major developments in art from the pre-historic to the late Gothic age. Art is not examined in isolation but in relation to music and theatre, as well as the social and political situation of the given period from which a specific art form emerged. (3,0)

ART 104-3 HISTORY OF ART II (S)
Survey of major art developments from the early Renaissance to the present day. When dealing with the modern period students examine the social conditions and factors that emerged in abstraction in some detail.
Prerequisite: Art 103-3 (3,0)

BIO 101-3 INTRODUCTORY BIOLOGY I (F)
Topics discussed in this course include the role of science in society, the geological history of the earth in relation to life, the development of evolutionary theory and genetics. Further, taxonomy, the diversity of organisms and various aspects of social organizations are studied.
Prerequisite: Bio II recommended (4,3)

BIO 102-3 INTRODUCTORY BIOLOGY 11 (S)
This course examines the properties of atoms and molecules, cellular respiration, photosynthesis, embryonic development, hormones and physiological mechanisms.
Prerequisite: Biology 11 recommended (4,3)

BIO 103-3 BIOLOGY FOR NON-MAJORS I (F)
A survey course in general biology intended for students majoring in the humanities, or social sciences. Emphasis placed on human aspects of anatomy, physiology and genetics. (3,3)

BIO 104-3 BIOLOGY FOR NON-MAJORS II (S)
The principles studied in Biology 103-3 are applied to their impact on man. Special emphasis is placed on human genetics, evoluton, and ecology.
Prerequisite: Biology 103-3 (3,3)

BIO 152-3 APPLIED BIOLOGY (S)
A survey course in biology which stresses the practical application of biological principles. (3,3)

BIO 201-3 CELL STRUCTURE (F)
This course acquaints the student with facts and theories of physical and chemical aspects of cell structure. Additional topics discussed include cell events (mitosis, meiosis, etc.) and experimental techniques.
Prerequisite: Biology 102-3 (3,0)

BIO 202-3 CELL CHEMISTRY (S)
An introductory course dealing with the chemical basis of life. This course emphasizes basic life processes; energy concepts, energy conversion, transfer, and storage. Cell structures are discussed from the standpoint of their roles in all aspects of energetics.
Prerequisite: Biology 102-3 (3,0)

BUS 101-3 ACCOUNTING (F)
The student is introduced to principals of accounting required for B.Com. program. Recommended to be taken in second year. (4,0)

BUS 103-3 FUNDAMENTALS OF BUSINESS (F)
An introduction to the basic concepts and techniques of business functions and organization. (4,0)

BUS 151-3 ACCOUNTING SYSTEMS I (F)
Dealing with the inter-relationships of the functional areas of a business, this introductory subject covers the fundamental concepts of the accounting process. Emphasis is placed on the main business activities and the flow of information through the business. All material is integrated with case and simulation studies. (2,3)

BUS 152-3 ACCOUNTING SYSTEMS II (S)
A continuation of Accounting Systems I. This course will further develop an understanding of fundamental concepts in the accounting process.
Prerequisite: Business 151-3 (2,3)

BUS 153-3 BUSINESS ORGANIZATION I (F)
This course provides the beginning student with the basic knowledge of business. The foundations of modern business, the scope of business activities, and the legal, financial, and organizational structure are all examined. (3,0)

BUS 154-3 BUSINESS ORGANIZATION II (S)
A further development of the basic concepts, techniques, and functions of various business operations.
Prerequisite: Business 153-3 (3,0)

BUS 162-3 BUSINESS FOR TECHNICAL STUDENTS (F)
This course helps technology students develop an understanding of business organization and management. The student is expected to apply these principles and techniques through analysis of business case studies. (3,0)

BUS 163-3 BUSINESS LAW (S)
A general survey of business law with emphasis on law of contract, Sale of Goods Act, reciprocal duties between principal and agent, the law relating to negotiable instruments, the law of real property, the law of landlord and tenant, the law relating to partnership and companies, and various devices associated with legal security. (3,0)

BUS 164-3 INDUSTRIAL RELATIONS (F)
This subject analyses the management of human resources, as well as an understanding of human behavior and the development and application of industrial relations in Canada.
Prerequisite: Psychology 153-3 (3,0)

BUS 253-3 COST ACCOUNTING (S)
This course helps the student develop a basic understanding of accounting for management. Budgeting and control are the basic themes. Unit costing - job order, process and variable - is well covered, as is standard costing, including setting cost standards and analyzing variances from standard.
Prerequisite: Business 152-3. (3,0)

BUS 255-3 BUSINESS POLICY (S)
An analysis of business policy formulation designed to give the student practice, experience, and confidence in handling business situations, including those of a complex nature where basic policy decisions are necessary to assist in problem solving. Typical business cases are selected for study and discussion. (3,0)

BUS 256-3 GOVERNMENT PROCESSES AND DECISION MAKING (S)
Students examine the degree of the inter-relatedness of government and business and real decision-making processes in contemporary Canadian governments at all levels. (3,0)

BUS 257-3 CANADIAN FINANCIAL MANAGEMENT I (F)
The development and application of financial tools to analyze the internal operation of a business enterprise with the objective of measuring performance and assisting management decision making. Some of the topics discussed are: profit planning, budgeting, break-even analysis, cost-volume-profit analysis.
Prerequisite: Second year standing. (3,0)

BUS 258-3 CANADIAN FINANCIAL MANAGEMENT II (F)
This financial management course reviews techniques to control cash, accounts receivable (including credit and collections) and inventory levels. Methods of comparing competing investment proposals are developed. Sources of long-term and short-term funds for both large and small businesses are studied, and financial statement analysis, dividend policy, cost of capital and financial structure is discussed.
Prerequisite: Second year standing (3,0)

BUS 271-3 MARKETING I (F)
An introduction to marketing institutions and the marketing environment. Further topics include consumer behavior analysis, marketing research, channels of distribution, pricing strategies, product development, sales organization and promotional methods and programs.
Prerequisite: Second year standing. (3,0)

BUS 272-3 PRODUCTION (S)
Production planning and control, plant location and layout, product development, quality control, materials handling, purchasing, methods and time study, industrial engineering, and operations research are all reviewed.
Prerequisite: Second year standing. (3,0)

BUS 273-3 DISTRIBUTION (S)
A study of traffic management and the physical distribution of products including the selections of channels of distribution, types of transportation, warehousing, material handling, location factors, special transport services and carrier liability.
Prerequisite: Business 154-3. (3,0)

BUS 274-3 PERSONNEL MANAGEMENT (S)
This course is concerned with the various aspects of personnel management. The methods and principles of selecting, training, developing, motivating, and assessing the performance of individuals are dealt with. Human resource management and industrial relations are also discussed.
Prerequisite: Second year standing. (3,0)

CHEM 101-3 FUNDAMENTALS OF CHEMISTRY I (F)
An introduction to the quantum chemical principles of bonding, followed by a quantitative discussion of equilibria and ionic solutions, including basic concepts of electrochemistry, for students with at least 'C' level standing in Chemistry 12.
Prerequisites: Chemistry 12; Mathematics 12 (3,3)

CHEM 102-3 FUNDAMENTALS OF CHEMISTRY II (S)
This introduction to organic chemistry leads to polymers, followed by the basic principles of pulp manufacture. The modern aspects of biochemistry are discussed. A survey of important topics of transition metal chemistry is followed by kinetics.
Prerequisites: Chemistry 101-3 or Chemistry 103-3 with 'A' or 'B' standing (3,3)

CHEM 103-3 INTRODUCTORY CHEMISTRY I (F and S)
Introduction to chemistry primarily for those with no chemistry or Chemistry 11. Included are periodic table, bonding, equilibrium pH calculations, gases and molecular structure. (3,4)

CHEM 104-3 INTRODUCTORY CHEMISTRY II (S)
Organic chemistry and biochemistry for those going on in the life sciences, or those who do not intend to take more chemistry.
Prerequisites: Chemistry 101-3 or Chemistry 103-3. (3,3)

CHEM 153-3 INTRODUCTORY CHEMISTRY I (F)
Introduction to chemistry primarily for those with no chemistry or Chemistry 11. Included are periodic table, bonding, equilibrium pH calculations, gases and molecular structure. (3,3)

CHEM 154-3 INTRODUCTORY CHEMISTRY II (S)
Organic chemistry and biochemistry for technical students.
Prerequisite: Chemistry 153-3. (3,3)

CHEM 162-3 CHEMICAL LABORATORY TECHNIQUES (S)
An introduction to the basic techniques used in the chemical laboratory, laboratory safety, sampling, weighing moisture determinations, ashing procedures, extraction procedures and gravimetric and volumetric methods. Demonstrations and practice of selected instrumental methods. (0,3)

CHEM 171-3 LABORATORY WORKSHOP (F)
The use of simple hand and bench tools, soldering, brazing and gas welding, glass blowing techniques, repair of chemical glassware, construction of simple apparatus, repair and welding of plastics. Basic laboratory electrical circuitry and fittings. The organization and control of a chemical laboratory, safety precautions, record-keeping and inventory control. (0,3)

CHEM 172-3 UNIT PROCESSES AND ENVIRONMENTAL SAMPLING TECHNIQUES (S)
Unit operations and unit sequences in the chemical industries. Flow charts and flow plan symbols, calculation of material and energy balances, industrial stoichiometry are reviewed. Important industrial processes are used as illustrations. Sampling for pollution control, bacteria and micro-organism sampling, choice of procedures and statistical validity are studied. (1,3)

CHEM 201-3 PHYSICAL INORGANIC CHEMISTRY I (F)
A comprehensive discussion of the First, Second and Third Law of Thermodynamics leads to equilibria and equilibrium thermodynamics of solutions. Basic quantum chemical methods are introduced and applied to organic and inorganic molecules.
Prerequisites: Chemistry 102-3 or Chemistry 104-3 (3,4)

CHEM 202-3 PHYSICAL INORGANIC CHEMISTRY II (S)
An introduction to volumetric analysis and complexometric methods. Basic spectroscopic and electrochemical techniques are discussed and used for endpoint detection in titrations. Kinetics are discussed within the framework of analytical chemistry.
Prerequisite: Chemistry 201-3 (3,4)

CHEM 203-3 ORGANIC CHEMISTRY I (F)
Basic principles of organic chemistry, including reaction, mechanisms, and structural organic chemistry. Practical work in spectroscopy and gas chromatography are included.
Prerequisites: Chemistry 102-3 or Chemistry 104-3. (3,3)

CHEM 204-3 ORGANIC CHEMISTRY II (S)
A continuation of Chemistry 203-3.
Prerequisite: Chemistry 203-3. (3,3)

CLAS 101-3 GREEK LITERATURE IN TRANSLATION (F)
A study of some of the major works of classical Greek drama, epic history and philosophy. (3,0)

CLAS 102-3 LATIN LITERATURE IN TRANSLATION (S)
A study of some of the major works of classical Latin poetry, history, drama, and philosophy. (3,0)

ECE 151-3 CHILD GROWTH AND DEVELOPMENT (F)
The study of human development from conception to adulthood. All areas of development are covered (physical, mental, social, and emotional). Influences on development as well as disturbances in development are discussed and directed observation of children occurs. (3,0)

ECE 153-3 PARENT-TEACHER RELATIONS (S)
Parent and teacher communications with emphasis on planning parent meetings, conducting parent conferences, involving parents in the work of the school.
Prerequisites: Early Childhood Education 151-3 and 154-3. (3,0)

ECE 154-3 PHILOSOPHY OF EARLY CHILDHOOD (F)
This course emphasizes the importance of the child's early years of development. Education of young children past and present is discussed and modern theories of preschool education are presented. Curriculum and planning for the modern preschool and teaching in preschool today form part of the student's activities. (3,0)

ECE 161-3 ART EXPERIENCES IN PRESCHOOL (F)
This subject helps the teacher develop appropriate projects for preschool children in the areas of arts and crafts and social studies. Lab time involves experiments with the children in a preschool centre. (3,0)

ECE 162-3 MUSIC RHYTHM IN PRESCHOOL (S)
This course will discuss music and rhythm appropriate for the preschool. Students will direct music and rhythm exercises for children in a preschool centre.
Prerequisite: Early Childhood Education 154-3. (3,0)

ECE 163-3 SCIENCE AND SOCIAL SCIENCE IN PRESCHOOL (F)
Students develop appropriate projects for preschool children in sciences and in social studies and apply them. (3,0)

ECE 164-3 LANGUAGE ARTS (S)
Students examine literature suitable for the preschool child, and are expected to supplement these studies by involvement with children in a preschool centre. (3,0)

ECE 170-3 OBSERVATION OF PRESCHOOLERS (F)
Directed observation of preschool children in various groups. Students visit kindergartens and day care centres in the area and work with the children in a preschool centre. (0,4)

ECE 190-3 PRACTICUM I (S)
In planning and carrying out a preschool program, students are counselled and supervised by qualified instructors.
Prerequisites: Early Childhood Education 151-3, 154-3, and 161-3 (0,5)

ECE 241-3 ORGANIZATION AND ADMINISTRATION OF PRESCHOOL
Students review the operation of a preschool from the administrator's point of view and examine how to order materials and equipment, the costs involved and how to work with the staff of the centre.
Prerequisite: Early Childhood Education 154-3. (3,0)

ECE 242-3 GUIDANCE OF YOUNG CHILD
Discussion of behavior of young children and ways of dealing with their behavior. Emphasis is placed on positive techniques for use in the classroom and at home.
Prerequisites: Early Childhood Education 151-3 and 154-3. (3,0)

ECE 251-3 FAMILY LIFE
A study of the family as a social group. Discussions of roles of family members, differences among social classes, changes in the family due to parents aging and children growing. Emphasis on the present-day Canadian family.
Prerequisite: Early Childhood Education 151-3. (3,0)

ECE 253-3 SPECIAL EDUCATION
Discussion of programs for children with motor, mental, or emotional problems and special techniques used in these programs and understanding of special characteristics of the children. Observation of special programs in the region is part of this course.
Prerequisite: Early Childhood Education 151-3 and 154-3. (3,3)

ECE 262-3 HEALTH AND NUTRITION
This course emphasizes the health of the preschool child in relation to diet and disease. First-aid for the school situation and actual experience in mealtime situations are included. (3,1)

ECE 290-2 PRACTICUM II
Practice is obtained by planning and implementing a program for preschool children.
Prerequisites: Early Childhood Education 151-3, 154-3, 161-3, and 162-3 (0,4)

ECON 101-3 INTRODUCTION TO ECONOMICS (F & S)
This course acquaints students with the basic concepts and vocabulary of economics. Areas of study include money, inflation, full-employment, investment, business cycles, pricing and costs. (3,0)

ECON 102-3 CANADIAN ECONOMICS ISSUES (S)
This course reviews current issues. Some of the topics are taxation, governmental economic policies, domestic and foreign investment, foreign trade problems and labor. Readings in current periodicals, publications of the Economic Council of Canada, current statistical publications, and other assigned readings form part of the material in this course.
Prerequisite: Economics 101-3. (3,0)

ECON 151-3 INTRODUCTION TO ECONOMICS (F)
This course acquaints students with the basic concepts and vocabulary of economics. Areas of study include money, inflation, full employment, investment, business cycles, pricing and costs. (3,0)

ECON 152-3 CANADIAN ECONOMIC ISSUES 'S)
This course reviews current issues. Some of the topics are taxation, governmental economic policies, domestic and foreign investment, foreign trade problems and labor. Readings in current periodicals, publications of the Economic Council of Canada, current statistical publications, and other assigned readings form part of the material in this course.
Prerequisite: Economics 151-3. (3,0)

ECON 201-3 PRINCIPLES OF ECONOMICS-MACROECONOMICS (F & S)
This course explores the forces affecting an economy. The motivations and interactions of households, the business sector, government, and foreign sectors are emphasized. The role of money in a modern economy is dealt with at length.
Prerequisite: First year math. (3,0)

ECON 202-3 PRINCIPLES OF ECONOMICS-MICROECONOMICS (S)
An examination of the concepts in the words "demand and supply". Components of demand by both firms and households are analyzed. A theory of pricing in different market structures is developed in conjunction with the derivation of costs to firms.
Prerequisite: First year math. (3,0)

EDP 101-3 DATA PROCESSING FUNDAMENTALS (F)
This course introduces the student to data processing. It starts with a historical preview of the development of data processing from manual methods through automated methods to the present electronic methods and includes a description of machinery used in card-oriented systems and modern computer systems. Systems analysis, flowcharting, and program design are briefly reviewed. (2,1)

EDP 102-3 PROGRAMMING I (S)
An introduction to the principles of programming using the IBM 1130 computer. The course includes machine language and symbolic language as well as a high level language with emphasis on "hands on" experience on the computer. Flow charting, coding, debugging and documenting simple applications will be included. (2,2)

EDP 151-3 DATA PROCESSING FUNDAMENTALS (F)
This course introduces the student to data processing. It starts with a historical preview of the development of data processing from manual methods through automated methods to the present electronic methods and includes a description of machinery used in card-oriented systems and modern computer systems. Systems analysis, flowcharting, and program design are briefly reviewed. (2,1)

EDP 152-3 PROGRAMMING I (S)
An introduction to the principles of programming using the IBM 1130 computer. The course includes machine language and symbolic language as well as a high

level language with emphasis on "hands on" experience on the computer. Flow charting, coding, debugging and documenting simple applications will be included. (2,2)

EDP 251-3 PROGRAMMING II (F)
The programming of a computer is done generally by use of a high level language and this is translated by a compiler into the basic machine language. The languages offered this semester are 1130 Assembler and Fortran. Fortran is generally thought of as being a scientific language although as will be shown, it can be used as a business data processing language too. (3,3)

EDP 252-3 PROGRAMMING III (S)
Two of the most commonly used computer languages are RPG (Report Generating Language) and Cobol (Common Business-Oriented Language), which are both learned by writing several small programs. (3,3)

EDP 253-3 SYSTEMS ANALYSIS (F)
An introduction to computer systems design and basic systems analysis techniques. Beginning with punched card computer applications for standard accounting and statistical functions the student practices systems investigation, systems flow charting, forms design and card design.
Prerequisite: EDP 151-3 and 152-3. (2,2)

EDP 254-3 SYSTEMS DESIGN (S)
Techniques of systems analysis including gathering data, systems design, flow charting, documentation procedures, form and record design, controls and audit trails. The student solves business and statistical problems using both magnetic tape and magnetic disc storage devices. Implementation procedures and standards and valuation of the new system are included.
Prerequisite: EDP 253-3. (2,2)

EDP 255-3 BUSINESS USES OF THE COMPUTER (F)
This practical course illustrates how computers are acquired and used in business or technology. Characteristics of machines and systems are examined so as to evaluate computers for installation and develop techniques for feasibility studies. (1,2)

EDP 256-3 CASE STUDIES (S)
Actual companies and organizations using computers are evaluated for the effectiveness of their computer installation and specific applications. Emphasis is given to profitable computer usage and some of the pitfalls to avoid.
Prerequisite: EDP 151-3 and 152-3. (1,2)

ENGL 101-3 LITERATURE AND COMPOSITION I (F & S)
Composition and Literature. A study of the 20th Century short story and drama, and a consideration of current language practices together with a program of writing. (3,0)

ENGL 102-3 LITERATURE AND COMPOSITION II (F & S)
Reading of 20th Century poetry and novels; a study of the principles of composition; and a program of student writing. (3,0)

ENGL 151-3 COMMUNICATIONS I (F)
Students are involved with various aspects of communications on both the practical and theoretical levels. Emphasis is placed on the development of effective speaking and writing skills, with an additional concern for communications theory, mass media study, advertising techniques, contemporary literature (short stories, poetry, plays, essays). Student participation is stressed. (3,0)

ENGL 152-3 COMMUNICATIONS II (S)
Mass media, advertising techniques, etc. As well, the student is required to write essays and present one major research project. One contemporary novel and one play will be studied in detail.
Prerequisite: English 151-3. (3,0)

ENGL 201-3 ENGLISH LITERATURE, 1350-1688 (F & S)
A survey of English Literature from Chaucer to Milton based on a selection of poetry from major authors. Students are asked to submit at least six essays on literary topics.
Prerequisites: English 101-3 and 102-3. (3,0)

ENGL 202-3 ENGLISH LITERATURE, 1688-1900 (F & S)
A survey of English Literature from Dryden to Hopkins based on a selection of works from major authors. Students will submit at least six essays on literary topics.
Prerequisites: English 101-3 and 102-3. (3,0)

ENGL 203-3 CANADIAN LITERATURE I (F)
An introduction to the study of Canadian Literature involving writers from the beginning to the 1940's, journals, poetry, fiction and satire.
Prerequisites: English 101-3 and 102-3 or English 151-3 and 152-3. (3,0)

ENGL 204-3 CANADIAN LITERATURE II (S)
A study of the development of poetry, fiction, drama, essays, biography and satire from 1940 to the present.
Prerequisites: English 101-3 and 102-3 or English 151-3 and 152-3. (3,0)

ENGL 205-3 CREATIVE WRITING I (F & S)
This workshop course is for students with a special interest in original creative expression. Students will submit their own written work (poems, short stories, or plays) for class discussion and comments.
Prerequisite: Permission of Instructor. (3,0)

ENGL 206-3 CREATIVE WRITING II (S)
A continuation of English 205-3.
Prerequisite: Permission of Instructor. (3,0)

FOR 151-3 FOREST SCIENCE I (F)
Forest science is the study of botany and in particular dendrology, history and practices in logging, the geography of B.C. and sawmilling. The emphasis of this first semester course is on understanding the technical terminology and broad concepts in forestry. (3,5)

FOR 152-3 FOREST SCIENCE II (S)
This course emphasizes the study of wood, its chararteristics, properties and uses in paper manufacture, plywood, particle boards and laminated members. The sciences of forest soils, ecology and plant associations are reviewed.
Prerequisite: Forestry 151-3. (3,5)

FOR 153-3 INTRODUCTION TO WOOD PROCESSING (S)
Lumber tallying and grading, wood seasoning, dry kiln operation and wood preservation, the manufacture of plywood and glued laminated structures, building board and composition board, wood moisture and density relationships, agencies of wood deterioration and an introduction to the pulp and paper industry are major areas under study. (3,0)

FOR 161-3 FOREST MEASUREMENTS I (F)
Forest Measurements I is a field-oriented course involving the theory and practice

of forest sampling and log scaling procedures, the study of surveying instruments and the development of skills in their use. Mapping and drafting are important. The construction and use of tables and graphic techniques both for reference and summarization of data is emphasized. (3,3)

FOR 162-3 FOREST MEASUREMENTS II (S)
Forest Measurements II includes statistics and their application to control sampling error, methods of volume compilation, computer analysis of data, and field procedures. The importance of accurate report writing is stressed.
Prerequisite: Forestry 161-3. (3,3)

FOR 165-3 FIRE CONTROL I (F)
This course introduces fire behavior as it is affected by weather, topography and fuel types. Methods of measuring these variables are studied with the purpose of understanding fire hazard and index ratings. Presuppression planning is also presented. (2,2)

FOR 166-3 FIRE CONTROL II (S)
The course further develops the theory and practices of fire behavior in the first semester and applies this knowledge to suppression tactics. Fire suppression methods are studied by simulated exercises.
Prerequisite: Forestry 165-3. (2,2)

FOR 171-3 PHOTOGRAMMETRY I (F)
Photogrammetry involves the interpretation of information from aerial photographs. The mathematics necessary to read distances, areas and tree heights, forms a major part of the course. Mapping and the specialized instruments required for the purpose are studied. The development of drafting skills is also emphasized. (1,3)

FOR 172-3 PHOTOGRAMMETRY II (S)
Photogrammetry II emphasizes the use of photographs in mapping, volume estimation, logging layout, and forest protection. Drafting skills are further developed.
Prerequisite: Forestry 171-3. (1,3)

FREN 101-3 INTERMEDIATE COLLEGE FRENCH I (F)
Grammar and syntax are systematically reviewed using an active audiolingual method. Conversation through discussion and oral reports in class and elementary composition based on written appreciations of literary selections with additional readings in French literature all assist the student.
Prerequisite: French 12. (3,2)

FREN 102-3 INTERMEDIATE COLLEGE FRENCH II (S)
A continuation of French 101-3.
Prerequisite: French 101-3. (3,2)

FREN 103-3 INTRODUCTION TO COLLEGE FRENCH I (F)
Simple grammatical constructions and syntax are developed in the context of idiomatic French, using an active audiolingual method. Selected readings in French literature form part of the material in this course.
Prerequisite: French II. (3,2)

FREN 104-3 INTRODUCTION TO COLLEGE FRENCH II (S)
A continuation of French 103-3.
Prerequisite: French 103-3. (3,2)

FREN 201-3 ADVANCED COLLEGE FRENCH I (F)
Extensive conversation and dissertation will be based on a chronological survey of French literature from the middle ages to the end of the seventeenth century.

There will also be a review of grammar and syntax through compositions and translations, to allow further development in this language.
Prerequisite: French 102-3. (2,2)

FREN 202-3 ADVANCED COLLEGE FRENCH II (S)
A continuation of French 201-3. French literature from the 18th century to the present forms the basis of this course.
Prerequisite: French 201-3. (2,2)

GEOG 101-3 INTRODUCTION TO GEOGRAPHY (F & S)
The course introduces the scope and structure of modern geography. Organizing concepts and methods are examined with particular emphasis upon the inter-relationships existing between the various sub-disciplines - Cultural, Economic, Physical, and Regional Geography. (2,4)

GEOG 103-3 CANADIAN REGIONS (S)
The theory and concepts of regional Geography are applied to Canada. Regional identities are examined from a physical and human geographical viewpoint and landscape "personalities" developed. Some emphasis is given to contemporary problems of regional development in a North American context.
Prerequisite: Geography 101-3 or permission of the Department. (2,2)

GEOG 201-3 PHYSICAL GEOGRAPHY I (F)
The major concepts in the sub-disciplines of meteorology, climatology, biogeography (vegetation and soils) and geomorphology (land forms) are introduced. Analysis will be made of processes, distributions, and interrelationships.
Prerequisite: Geography 101-3 or permission of the Department. (2,4)

GEOG 202-3 PHYSICAL GEOGRAPHY II (S)
A continuation of Geography 201-3.
Prerequisite: Geography 201-3. (2,4)

GEOG 203-3 ECONOMIC GEOGRAPHY (S)
The course analyzes the spatial distribution of economic activities, reference being made to the complex geographic forces affecting man's economic activities, their characteristics and interrelationships. Primary, Secondary, and Tertiary sub-systems will be analyzed in view of traditional and more recent theories.
Prerequisite: Geography 101-3 or permission of the Department. (2,2)

GEOG 205-3 CULTURAL GEOGRAPHY (F)
An investigation of the dynamic nature of the Man/Land relationship in terms of the cultural, sociological, institutional, and psychological influences upon Man's use and organization of his environment.
Prerequisite: Geography 101-3 or permission of the Department. (2,2)

GEOL 101-3 INTRODUCTION TO PHYSICAL GEOLOGY (F)
Physical aspects of geology: the earth as a planet, origin of the solar system, matter and minerals, description and classification of rocks, weathering and soil formation, earth-quakes and the earth's interior, rock deformation and mountain building, mass movement, glaciation, desert, ocean and shoreline processes. Field trips and visits to regional mining operations are scheduled in place of some laboratory periods. (3,4)

GEOL 102-3 INTRODUCTION TO HISTORICAL GEOLOGY (S)
A continuation of Geology 101-3, with emphasis on historical aspects: the nature, scope and methods of historical geology, geologic time; fossils and the fossil record, theories of evolution; a survey of the major phyla, the early history of the earth; the evolution of the continents and continental

drift; the origin of man. Mineral resources and resource problems, environmental problems.
Prerequisite: Geology 101-3. (3,3)

GEOL 151-3 INTRODUCTION TO PHYSICAL GEOLOGY (F)
This course is similar to Geology 101-3. Laboratory assignments, however, emphasize economic and practical aspects, and participation in all field trips is required. (3,3)

GEOL 152-3 INTRODUCTION TO HISTORICAL GEOLOGY (S)
This course is similar to Geology 102-3. Laboratory assignments emphasize economic and practical aspects.
Prerequisite: Geology 151-3. (3,3)

GEOL 153-3 INTRODUCTION TO MINING I (F)
The nature, occcurance and classification of mineral resources, nature of mineral industries, exploration, prospecting methods and legal requirements, assessment work, methods of evaluation, constraints and conditions, sampling techniques and determination of grade; a review of possible extraction methods and costs, cut off grade; calculation of ore reserves and the value of a property. (3,3)

GEOL 154-3 INTRODUCTION TO MINING II (S)
Development of a mineral property, financing, selection of mining method, smelting and mining costs; surface methods, placer recovery, strip mining, open pit methods and equipment. The classification and comparison of underground methods, shaft sinking, crosscuts, drifts, layout of stopes, breaking ground, ground support, ore and waste haulage, ventilation, and grade control.
Prerequisite: Geology 151-3. (3,3)

GERM 101-3 INTRODUCTION TO GERMAN I (F & S)
The basics of German grammar, and practice, from the very beginning in speaking, reading, and writing permit the student to develop facility quickly in this language. (3,1)

GERM 102-3 INTRODUCTION TO GERMAN II (F & S)
A continuation of German 101-3. It acquaints the student with the more subtle aspects of German grammar.
Prerequisite: German 101-3. (3,1)

GERM 201-3 INTERMEDIATE GERMAN I (F)
Grammar review and an introduction to modern German literature and style analysis proceed in parallel. Students are exposed to authors such as Brecht, Hesse, Kaschnitz, Heym, and Rilke.
Prerequisite: German 102-3. (3,1)

GERM 202-3 INTERMEDIATE GERMAN II (S)
A continuation of German 201-3. In addition to various modern short stories, students read one or two German dramas.
Prerequisite: German 201-3. (3,1)

HIST 101-3 20th CENTURY WORLD HISTORY TO 1929 (F)
The history of the twentieth century from the origins of World War One to the Great Depression in 1929. (3,0)

HIST 102-3 WORLD HISTORY SINCE 1929 (S)
Major emphasis is placed on factors affecting world stability, trade and peace. (3,0)

HIST 103-3 CANADA, BEGINNINGS TO 1867 (F)
A survey of Canada's economic, political and social development from its beginnings through periods of exploration, settlement and consequent political growth to 1867. (3,0)

HIST 104-3 CANADA 1867 TO PRESENT (S)
Regional development and the implications of the basic cultural dualism are reviewed, as is the impact of international forces on the growth of Canada as a nation. (2,1)

HIST 201-3 19th CENTURY EUROPEAN THOUGHT (F)
A study of the major political philosophies affecting nineteenth century Europe. This is to be interwoven with a history of the events which gave those ideas their currency.
Prerequisite: History 12 or any college history course. (3,0)

HIST 202-3 20th CENTURY EUROPEAN THOUGHT (S)
A study of the major European developments of the century together with political and philosophical thought which reflected those developments.
Prerequisite: History 12 or equivalent. (3,0)

HIST 203-3 U.S. HISTORY TO 1865 (F)
The history of the United States from Colonial times to 1865 with special emphasis on those events and personalities which have resulted in the unique Republic of today. (3,0)

HIST 204-3 U.S. HISTORY 1865 TO PRESENT (S)
A continuation of History 203-3.
Prerequisite: History 203-3. (3,0)

MATH 101-3 INTRODUCTORY CALCULUS (F & S)
An introduction to the concepts, techniques and applications of differential and integral calculus.
Prerequisite: Math 12. (4,0)

MATH 102-3 CALCULUS AND LINEAR ALGEBRA (F & S)
This course is a continuation of Math 101-3 with an introduction to Linear Algebra. The concepts of area and work will be generalized with the use of integral calculus.
Prerequisite: Math 101-3. (4,0)

MATH 103-3 PRINCIPLES OF MATHEMATICS (F & S)
An introduction to the fundamentals in determinants, matrices, vectors and systems of linear equations. An intuitive approach to differential and integral calculus with emphasis on techniques and physical applications are developed. (3,0)

MATH 104-3 INTRODUCTION TO STATISTICS (S)
Descriptive statistics, elementary probability theory, statistical inference and the practical application of these topics are emphasized. (3,0)

MATH 151-3 TECHNICAL MATHEMATICS (F)
Topics include functions, exponential and log functions, trigonometric functions and an introduction to analytic geometry with applications. Students calculate areas and volumes using numerical techniques. (3,0)

MATH 152-3 PRINCIPLES OF MATHEMATICS (S)
An introduction to the fundamentals in determinants, matrices, vectors and systems of linear equations. An intuitive approach to differential and integral calculus with emphasis on techniques and physical applications is developed. (3,0)

MATH 153-3 BUSINESS MATHEMATICS (F)
This course provides the mathematical background for a study of the applications of mathematics in business, the computer area, and statistics: topics include ratio and proportion, percentage, algebraic fractions, exponents, radicals, algebraic multiplication and factoring, solution of linear, simultaneous and quadratic equations, graphs, series, logarithms, introduction to statistical parameters. (3,0)

MATH 154-3 MATHEMATICS OF FINANCE (S)
An introductory course in the mathematics of finance and investment. Topics include: simple interest, discount, compound interest, annuities, amortization, sinking funds, depreciation, valuations of investment, present value. (3,0)

MATH 155-3 INTRODUCTION TO STATISTICS (S)
Descriptive statistics, elementary probability theory, statistical inference and the practical application of these topics are emphasized. (3,0)

MATH 201-3 ANALYSIS AND CALCULUS (F)
The concepts of induction, infimum, supremum, limits and continuity are introduced and examined. The techniques are applied to examples in physics, chemistry and economics.
Prerequisite: Math 102-3. (3,0)

MATH 202-3 CALCULUS OF SEVERAL VARIABLES (S)
A continuation of Math 201-3. Fundamental properties of multiple integrals are introduced and applications to area, volume, mass, etc., are given.
Prerequisite: Math 201-3. (3,0)

MATH 203-3 THEORY OF FIELDS (F)
Topics include complex numbers, abstract field, axioms, polynomials over fields, and the theory of equations.
Prerequisite: Math 102-3. (3,0)

MATH 204-3 LINEAR ALGEBRA (S)
Development of the theory of matrices as a tool required in many areas of pure and applied mathematics. Determinants, solution of system of linear equations, matrices, vector spaces and subspaces, linear mapping and linear operators, scalar products and orthogonality, eigen-vectors and eigen-values are examined.
Prerequisite: Math 102-3 or equivalent. (3,0)

MATH 205-3 ALGORITHMS AND PROGRAMMING I (F)
Together with Mathematics 206-3, this course prepares a student to enter a University Computer Science major. It involves an introduction to the structure and use of digital computers, number systems, machine organization and programming techniques illustrated by developing the fundamentals of IBM 1130 Assembler language.
Prerequisite: Math 102-3. (3,1)

MATH 206-3 ALGORITHMS AND PROGRAMMING II (S)
Together with Mathematics 205-3, this course prepares a student to enter university as a third year computer science major. Applications of FORTRAN to problems in elementary number theory, sorting, statistics, numerical methods and simulation, emphasizing the algorithmic approach to problem-solving, support the student's growth of skills and knowledge in this field.
Prerequisite: Math 205-3. (3,1)

MUS 101-3 FUNDAMENTALS OF MUSIC I (F)
An introduction to the melodic, harmonic, contrapuntal, rhythmic and formal aspects of music, and their correlation. (3,2)

MUS 102-3 FUNDAMENTALS OF MUSIC II (S)
A continuation of Music 101-3. Introduction to triads and other harmonic units, simple harmonizations and some composition, ear training and dictation.
Prerequsite: Music 101-3 or equivalent. (3,2)

MUS 103-3 HISTORY OF MUSIC I (F)
A study of the historical development of music from the Greek period to the Renaissance, emphasizing recordings and score study, for the serious and qualified music student.
Prerequisites: Grade VI Practical and Grade II Theoretical (Royal Conservatory standards) or equivalent, or permission of the instructor. (3,0)

MUS 104-3 HISTORY OF MUSIC II (S)
A continuation of Music 103-3, covering the development of musical forms, styles, and techniques from 1600 to 1800.
Prerequisite: Grade VI Practical and Grade II Theoretical (Royal Conservatory standards) or equivalent, or permission of the instructor. (3,0)

MUS 201-3 MATERIALS OF MUSIC COMPOSITION (F)
A continuation of the study of the melodic, harmonic, rhythmic, contrapuntal, and formal concepts of music, with more emphasis placed upon creativity.
Prerequisites: Music 101-3 and 102-3, or Grade VI piano and Grade II Theory (Royal Conservatory standards), or permission of the instructor. (3,0)

MUS 202-3 MATERIALS OF MUSIC COMPOSITION (S)
A continuation of Music 201-3. Exploration of the theory behind new musical trends in the Romantic era, and in the twentieth century.
Prerequisite: Music 201-3. (3,2)

PHIL 101-3 MORAL PHILOSOPHY (F & S)
The student is introduced to philosophical analysis by investigating the nature of morality. Some topics are: ethical egoism, ethical relativism, utilitarianism, Hedonism, Platonic idealism, pragmatism, emotive theory of ethics, existentialist ethics and questions such as "What do disagreements in ethics mean?" "Can there be any objective basis for moral judgement?" (3,1)

PHIL 102-3 THEORY OF KNOWLEDGE (F & S)
The student develops analytic techniques by investigating whether there is or can be indubitable knowledge. Topics include: rationalism, idealism, acquaintance, description, analyticity, tautology, the a priori, necessity, syntheticity, the posteriori, contingency, truth, skepticism, Cartesian doubt, verifiability, possibility, and questions such as: "How do we know?" "What do we know?" "Can we ever know anything?" (3,1)

PHIL 203-3 POLITICAL PHILOSOPHY (F & S)
This course is an examination philosophically of political concepts and questions. Some examples are the concepts of justice, liberty, obligation and sovereignty. Questions such as what is political obligation and what is the ground of legitimacy in the exercise of political power are explored.
Prerequisite: One course in Philosophy, or permission of the instructor. (3,1)

PHIL 201-3 ANCIENT PHILOSOPHY: PRE-SOCRATICS AND PLATO (F & S)
This course provides an introduction to the beginnings of western European philosophy through an examination of the works of thinkers before Plato and through detailed examination of some of the Platonic Dialogues such as Euthyphro, Crito, Apology, Protagoras, Phaedo, and Gorgias.
Prerequisites: One course of philosophy, or the permission of the instructor. (3,0)

PHIL 202-3 ANCIENT PHILOSOPHY: PLATO AND ARISTOTLE (F & S)
This course provides an introduction to early western European philosophy

through an examination of the writings of Plato, Aristotle and subsequent thinkers. Readings will include Plato's dialogues Republic, Theaetetus, Sophist, Meno and Symposium; Aristotle's Nichomachian Ethics, Politics, and other works.
Prerequisites: One course in philosophy, or the permission of the instructor (3,0)

PHYS 101-3 INTRODUCTORY PHYSICS (F)
Emphasis is placed on the basic physical concepts and some contemporary problems in physics. Topics include: displacement, velocity, acceleration, gravitation and Newton's Laws, equilibrium of a rigid body, frames of reference and relativity, energy and momentum, work and power, Kepler's Laws and circular motion, wave motion, sound theories of temperature and heat and heat transfer. These subjects are studied in the laboratory.
Prerequisites: Physics 12 and Math 12. Students lacking these courses may be admitted and required to attend additional tutorials. (3,3)

PHYS 102-3 INTRODUCTORY PHYSICS (S)
Continuing the topics from Physics 101-3, static and current electricity, optics, theories of light, interference and diffraction, introduction to modern physics are studied.
Prerequisite: Physics 101-3. (3,3)

PHYS 103-3 ADVANCED INTRODUCTORY PHYSICS I (F)
Similar to Physics 101-3, this more vigorous treatment of the basic physical concepts utilizes calculus. Topics include displacement, velocity, acceleration, dynamics and Newton's Laws, forces, work, energy, conservation laws, thermodynamics and the kinetic theory of gases. This course (and Physics 104-3) is recommended for students who have completed Physics 12 and Math 12 and who intend to proceed in science.
Prerequisites: Math 12 and Physics 12. (3,3)

PHYS 104-3 ADVANCED INTRODUCTORY PHYSICS II (S)
A continuation of Physics 103-3. Topics include simple harmonic motion, waves and wave motion, electrical and magnetic phenomena, the electron, and nuclear and subnuclear physics.
Prerequisite: Physics 103-3. (3,3)

PHYS 151-3 TECHNICAL PHYSICS (F)
Examples relevant to career programs form the basis for assignments. Laboratory experiments and demonstrations are part of the course.
Prerequisite: Physics 11 (3,3)

PHYS 152-3 TECHNICAL PHYSICS (S)
A continuation of Physics 151-3.
Prerequisite: Physics 151-3. (3,3)

PHYS 201-3 THERMODYNAMICS (F)
The topics studied include temperature and temperature effects, heat, specific heats, heat conduction, work, the first law of thermodynamics, the kinetic theory of gases, cyclic processes, the second law of thermodynamics, entropy and disorder.
Prerequisites: Physics 101-3 and 102-3 or Physics 103-3 and 104-3 (3,0)

PHYS 202-3 ELECTRICITY (S)
The topics studied are electrical units, Kirchhoff's rules for resistive circuits, equivalent circuits, alternating current and power factors, resistors, capacitors, and inductors in transient and alternating current circuits.
Prerequisite: Physics 201-3 (3,0)

PHYS 203-2 GENERAL LAB (S)
A series of experiments designed to demonstrate concepts of mechanical, electrical, thermal and modern physics. Experiments include the use and design of meters, L.C.R. circuits, temperature measurement, and the determination of a radioactive half-life. One experiment is designed by the student.
Prerequisite: Physics 201-3. (0,6)

PHYS 204-4 MECHANICS AND SPECIAL RELATIVITY (F)
Vectors and vector operators, kinematics, relative motion, statics, dynamics of a particle, work and energy, dynamics of a system of particles, rigid body dynamics, high energy dynamics, oscillatory motion, and special relativity are examined closely.
Prerequisites: Math 102-3, Physics 102-3 or 104-3. (3,0)

POSC 101-3 GOVERNMENT OF CANADA (F)
An examination of the institutions and processes of Canadian government. (3,0)

POSC 102-3 FOREIGN GOVERNMENT (S)
A comparative analysis of the governments of the U.K., U.S., and U.S.S.R. (3,0)

PSYC 101-3 INTRODUCTION TO PSYCHOLOGY I (F & S)
This general survey course includes topics such as a brief history of psychology, elementary experimental design, the nervous system, sensation and perception, learning, motivation, and motion. (3,1)

PSYC 102-3 INTRODUCTORY PSYCHOLOGY II (F & S)
A continuation of Psychology 101-3. Topics include thinking, language, intelligence and intelligence testing, personality theories, and personality assessment, mental health and behavioral disorders, with an introduction to Social Psychology.
Prerequisite: Psychology 101-3 (3,1)

PSYC 151-3 PSYCHOLOGY I (F)
This general survey course includes topics such as a brief history of psychology, elementary experimental design, the nervous system, sensation and perception, learning, motivation, and emotion. (3,0)

PSYC 152-3 PSYCHOLOGY II (S)
A continuation of Psychology 151-3. Topics include thinking, language, intelligence and intelligence testing, personality theories, and personality assessment, mental health and behavioral disorders, with an introduction to Social Psychology.
Prerequisite: Psychology 151-3. (3,0)

PSYC 153-3 HUMAN RELATIONS (F)
The study of people at work, how they may be motivated to work together to fulfill effectively the needs of the individual as well as the objectives of the organization. It commences by reviewing relations observable in the classroom. (3,0)

PSYC 201-3 EXPERIMENTAL PSYCHOLOGY I (F)
This course introduces experimental methods and designs as applied to research in psychology on living organisms. It focuses on sensation, perception, learning, and motivation using research in these to illustrate current developments and techniques.
Prerequisites: Psychology 101-3 and 102-3. (3,3)

PSYC 202-3 EXPERIMENTAL PSYCHOLOGY II (S)
A continuation of Psychology 201-3.
Prerequisite: Psychology 201-3 3,3)

PSYC 203-3 DYNAMICS OF BEHAVIOR I (F)
The student is introduced to personality and adjustment, and reviews some theories of personality (e.g. psychoanalysis) and conditions in life requiring adjustment (e.g. conflict). These theories are developed throughout course and pertinent research is discussed.
Prerequisites: Psychology 101-3 and 102-3. (3,1)

PSYC 204-3 DYNAMICS OF BEHAVIOR II (S)
A continuation of Psychology 203-3. Topics include mentally normal and abnormal behaviours, assessment of these behaviours through psychological tests, and different types of treatment of abnormal behaviour.
Prerequisite: Psychology 203-3. (3,1)

PSYC 253-3 PRINCIPLES OF SUPERVISION (S)
Supervision from the perspective of the principles involved and the ethical nature of their application examined both from the position of the supervised person and the supervisor. (3,0)

SOC 101-3 INTRODUCTION TO SOCIOLOGY I (F)
Introduction to selected fields of sociology. Definitions and uses of sociological terms. The study of social groups and institutions, in particular the family, the kin group, the tribe, the village, the neighborhood, the workgroup, the ethnic and religious community. (3,1)

SOC 102-3 INTRODUCTION TO SOCIOLOGY II (S)
A survey of major fields of sociology (continued). The emergence of large-scale society; historical sociology, regional, national, and multinational sociological studies (stratification, politics and voting, racial and ethnic relations). Sociological treatments of the individual, and the examination of research approaches and research methods.
Prerequisite: Sociology 101-3. (3,1)

SOC 201-3 SOCIOLOGY OF WORK - GENERAL (F)
Work before the Industrial revolution; the agricultural community and agricultural work, the "white-collar" worker, the professions, part-time and temporary work and their social and personal effects, "white-collar", technical, and professional associations, and their organization, goals, and social influence. The connection between work life and personal life, socialization and work, women and work.
Prerequisites: Sociology 101-3 and 102-3. (3,1)

SOC 202-3 SOCIOLOGY OF WORK - INDUSTRY (S)
Industrial workers, "respectable" and "rough"; their life-styles, family life, neighborhoods and communities. Industrial workgroups and work forces, and the one-industry town. Worker interest groups at the workplace (cliques, worker associations, labor and trade unions) and in the community and nation (social influence, political parties), crafts and trades, and women and industrial work.
Prerequisite: Sociology 201-3. (3,1)

SURV 151-3 INTRODUCTION TO SURVEYING I (F)
Purposes and types of surveys. Basic principles of measurements, precision and accuracy, treatment or errors; the measurement of distances, directions; compass surveys, plane tabling, chaining, traverses and topographic detail. Preparation of records. (3,3)

SURV 152-3 INTRODUCTION TO SURVEYING II (S)
A continuation of Surveying 151-3. Levelling, calculation of areas and volumes, the theodolite, triangulation, traverse calculations; site surveys, surface excavations; care, maintenance and adjustment of equipment.
Prerequisite: Surveying 151-3. (3,3)

TECH 151-3 ENGINEERING MATERIALS I (F)
A comparative study of the properties of a wide variety of engineering materials, including metals, alloys, plastics, elastomers, ceramics, concrete and composites, wood and wood products. Bonding forces in solids, stress and strain, plastic deformation, work hardening, recrystallization, failure of materials under stress. Introduction to phase diagrams. Heat treatment of steels, corrosion and weathering. (3,3)

TECH 152-3 ENGINEERING MATERIALS II (S)
A continuation of Tech 151-3.
Prerequisite: Technology 151-3. (3,3)

TECH 153-2 DRAFTING I (F)
Drafting equipment and supplies; lettering, technical sketching, working drawings; construction of sections, orthographic and isometric projections, conventional practices, scales, dimensioning; intersections and developments. (0,2)

TECH 154-2 DRAFTING II (S)
A continuation of Technology 153-2.
Prerequisite: Technology 153-2. (0,2)

TECH 162-1 INTRODUCTION TO MACHINE TOOLS (S)
An introductory course to familiarize the student with machine shop tools and equipment, with shop terminology and standards of workmanship. The capabilities and limitations of various shop tools are demonstrated in the laboratory. (0,2)

TECH 172-3 INTRODUCTION TO WORK STUDY (S)
Principles and applications of work study techniques. Basic approaches to problem-solving, the restructuring of work so as to improve efficiency by reducing labour, time and processing costs are examined. (3,0)

THT 101-3 INTRODUCTION TO THEATRE I (F)
An introduction to three historical styles (classical, medieval, and renaissance) and the fundamentals of theatrical criticism. (3,2)

THT 102-3 INTRODUCTION TO THEATRE II (S)
Modern theatre from the restoration period to the present time, the fundamentals of media studies and the study of representative plays.
Prerequisite: Theatre 101-3. (3,2)

THT 121-3 INTRODUCTION TO ACTING I (F)
The student concentrates on theory, speech and movement in preparation for second semester acting assignments. Recommended for prospective teachers. (2,3)

THT 122-3 INTRODUCTION TO ACTING II (S)
A major production is performed. All students participate at the level of their competence.
Prerequisite: Theatre 121-3. (1,5)

THT 201-3 INTRODUCTION OF THE MODERN THEATRE (F)
Emphasis is on the 19th Century theatre in Europe, especially with regard to philosophical, social and artistic trends associated with Realism and Naturalism.
Note: Only one of THT 201-3 and THT 203-3 will be offered. (3,0)

THT 202-3 20th CENTURY THEATRE (S)
The diverse and revolutionary movements in the 20th Century theatre, (symbolism, dandyism, expressionism, theatre of social protest, theatre of the absurd) the eclectic theatre of today, philosophic and aesthetic theory.
Note: Only one of THT 202-3 and 204-3 will be offered. (3,0)

THT 203-3 HISTORY OF GREEK AND ROMAN THEATRE (F)
A relatively intense study of Greek and Roman drama, theatrical style and dramatic theory. Ten representative plays drawn from the works of Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, Terrence and Seneca.
Note: Only one of THT 201-3 and THT 203-3 will be offered.
Prerequisites: Theatre 101-3 and 102-3. (3,0)

THT 204-3 HISTORY OF MEDIEVAL RENAISSANCE AND NEO-CLASSIC THEATRE (S)
The emergence of Christian culture - new dramatic forms and styles; humanism, renaissance dramatists, the Commedia dell'Arte, scene design, decadence. Representative plays are drawn from the works of Kyd, Jonson, Marlowe, Shakespeare, Webster and Ford in addition to Medieval Drama.
Note: Only one of THT 202-3 and THT 204-3 will be offered.
Prerequisite: Theatre 203-3. (3,0)

THT 231-3 CINEMATOGRAPHY (S)
A brief survey of film history together with an analysis of representative films provides a review of fundamentals of film technique and film form.
Prerequisite: Permission of instructor. (3,2)

THT 241-3 STAGE PRODUCTION (F)
Stage-craft and scenery construction; lighting fundamentals; costumes and make-up, stage crew and management, basic stage and lighting design. (1,4)

ZOO 201-3 COMPARATIVE ANATOMY OF THE VERTEBRATES (F)
A systemic approach to the comparative anatomy of the vertebrates. Organisms exhibiting a variety of morphological advances will be dissected in the laboratory.
Prerequisites: Biology 101-3 and 102-3. (3,3)

ZOO 202-3 DEVELOPMENTAL BIOLOGY (S)
A brief introduction to the principles of embryology and a survey of developmental anatomy and physiology of the vertebrates.
Prerequisites: Biology 101-3 and 102-3. (3,4)

FACULTY JANUARY 1971

U. Anders		B.Sc., M.Sc., Ph.D.	Chemistry
G. Bauslaugh		B.Sc., Ph.D.	Chairman of University Transfer Programs
M. Buzas		B. Com., M.B.A.	Commerce and Business
A. Deas		B.Sc., M.Sc.	Physics
U. Doerr	(Mrs.)	B.A., M.A.	German/French
J. Dumont		B.A., M.A.	History
R. Dunsmore		B.S.F.	Forestry
P. Durkee		B.B.A., M.A.	Economics
M. Enns	(Mrs.)	B.A., M.Sc.	Biology
M. Fallis	(Miss)	B.A., M.A.	English
E. Faulkner		B.Sc., M.Sc., Ph.D.	Physics/Geology
G. G. Girvan		B.A., M.A.	French
D. Hopp		B.Sc., M.Sc.	Biology
J. Hopp	(Mrs.)	B.Sc., M.A.	Early Childhood Education
B. E. Husband		B. Com., M.B.A.	Librarian
G. M. Ingalls		B.A.	Philosophy/English
R. B. Insley		B.A., M.Sc.	Mathematics
C. Jarosch		B.S.A.	Biology
M. Johnson		V.S.A. (dip.), B.Ed., M.A.	Art
I. Johnston		B.Sc., B.A., M.A.	English
K. Kraft	(part-time)	B.A., M.Sc.	Mathematics
A. L. Leveridge		Dip.Tech., C.I.M., C.D.P.	Chairman of Career Programs
A. Lombardo		B.A., M.A.	Psychology/Counsellor
J. T. McDonald		B.S., M.A.	Psychology
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D. McGaughey	(part-time)	B.A., L.L.B.	Business Law
J. A. McVey		M.A., M.A.	Geography
B. Moseley		B.A., M.B.A.	Accounting
K. C. Murray		B.A., M.A.	Anthropology/Sociology
R. Nelson		M.Sc., Ph.D.	Mathematics/Physics
D. Owen		B.A., M.A.	History
I. Raminsh		B.A., A.R.C.T., B.Mus.	Music
R. W. Scales		B.A., M.Ed.	Registrar
K. Sedgwick		B.A., M.A.	Geography
F. J. Speckeen		B.A., B.D., Ph.D.	Principal
T. Troughton		B.A.Sc., M.Sc., D.I.C., P. Eng.	Dean of Studies
E. White		B.A.	Data Processing
K. White		B.A., M.A	Theatre

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