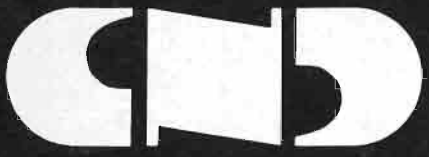


THE COLLEGE OF NEW CALEDONIA

CALENDAR 1970-1971

THE COLLEGE OF NEW CALEDONIA

CALENDAR
1970-1971

2901 - 20th Avenue
Prince George, British Columbia
Phone 562-1321

IMPORTANT DATES AT CNC

1970 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			

1971 JANUARY

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

1970 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
25	26	27	28	29	30	31

1971 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						

1970 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					

1971 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			

1970 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		

1971 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	24
25	26	27	28	29	30	

1970-71 Schedule

September 1	First day of the fall term
September 2, 3, 4	Registration-Tuition and fees are due
September 8	First day of classes
September 18	Last day of late registration
	Unpaid Registration expires
	Reinstatement fees assigned
October 10-12	Thanksgiving weekend
October 16	Last day for any course adjustment or course discontinuation
	Last day for refund of 50% of first term tuition
November 11	Remembrance Day
December 18	Last day of lectures
December 31	Last day of the fall term
January 1	First day of the winter term
January 4, 5, 6	Re-entry and registration for courses beginning in the second term
	Classes start on January 4
	Second term tuition and fees are due
January 20	Unpaid Registration expires
	Reinstatement fees assigned
March 3, 4, 5	Winter recess
April 9	Good Friday
April 12	Easter Monday
April 23	Last day of lectures
April 30	Last day of winter term
May 8	Convocation

CONTENTS

MEMBERS OF THE COLLEGE COUNCIL

S. C. EVANS (Chairman) Prince George

E. WESTOVER - Quesnel

J. BOATES - Quesnel

H. PARTRIDGE - McBride

K. F. HENDERSON - McBride

J. G. WILSON - Prince George

H. A. MOFFAT - Prince George

A. G. A. BOLTON - Vanderhoof

Dr. A. W. MOONEY - Vanderhoof

Mrs. R. B. HAGGERTY - Burns Lake

D. FRAME - Burns Lake

Mrs. M. KNOERR - Smithers

Mrs. M. FORD Smithers

W. E. FRANKE - President

D. P. TODD - District Superintendent
S. D. No. 57, Prince George

COLLEGE COUNCIL COMMITTEES

PERSONNEL Mr. J. G. Wilson, Chairman

CURRICULUM - Mr. J. Boates, Chairman

FINANCE Mr. D. P. Todd, Chairman

PLANNING Mr. S. C. Evans, Chairman

STUDENT RELATIONS Dr. A. W. Mooney, Chairman

ADVISORY COMMITTEES

AGRICULTURAL TECHNOLOGY
- Mr. W. K. Dawley (Superintendent, Experimental Farm, Prince George).

CHEMICAL TECHNOLOGY
- Mr. O. R. Affleck (Technical Director, Prince George Pulp and Paper Ltd.).
- Mr. Ross Craigie (Marketing and Administrative Manager, Inland Chemicals Canada Ltd.).
- Mr. John Wesch (Refinery Superintendent, Union Oil Co. of Canada Ltd.)

DATA PROCESSING
- Mr. H. F. Hanrieder (Administrative Manager, Northwood Pulp Ltd.).
- Mr. David A. Boughey (Data Processing Supervisor, Northwood Pulp Ltd.).
- Mr. D. Beardsell (Chartered Accountant, Peat, Marwick, Mitchell and Co.).

EARLY CHILDHOOD EDUCATION
- Mrs. William De W. Mann (Kindergarten teacher).
- Miss Kelly LaVoie (Supervisor of Primary Instruction, School District No. 57).
- Rev. E. Powell (Rector St. Michael's Anglican Church).

ELECTRICAL TECHNOLOGY
- Mr. Howard Evans (Electrical and Instrument Superintendent, Prince George Pulp and Paper Ltd.).

FOREST TECHNOLOGY
- Mr. L. A. deGrace (Manager, Industrial Forestry Service Ltd.).
- Mr. W. E. Haviland (Mill Manager, Prince George Pulp and Paper Ltd.).
- Mr. J. D. Little (Woods Manager, Northwood Pulp Ltd.).

LIBRARY COURSES
- Miss Phyllis Bowlby (Librarian, North Central Branch Library Development Commission).
- Mr. B. Bacon (Prince George Public Library).
- Mrs. A. Scott (School Librarian).

MINING TECHNOLOGY
- Mr. E. T. Kimura (Senior Geologist, Endako Mines Ltd.).
- Mr. J. D. Wright (Mine Manager, Endako Mines Ltd.).
- Mr. J. M. Gibbs (Assistant Mine Manager, Endako Mines Ltd.).
- Mr. Keith Meyer (Superintendent, Pinchi Mines, Fort St. James).

MUSIC COURSES
- Mrs. Margaret Purdy (Music teacher).

PARAMEDICAL COURSES
- Mr. Colin Elliott (Administrator, Prince George Regional Hospital).
- Dr. V. M. Fraser (Director of Pathology, Prince George Regional Hospital).
- Mr. Tony Dawkins (Chief Laboratory Technician, Prince George Regional Hospital).

STATEMENT BY THE PRESIDENT

The College of New Caledonia aims to be a typical Regional College in that it offers university transfer courses for entrance to B.A., B.Sc., B.Ed. and B.Com. programs at universities, diploma courses leading to immediate employment in industry, as well as short courses, lecture series and seminars demanded by groups in the community.

Close relations with all cultural and economical endeavours in the community will give this College a special character, since the Central British Columbia Region has, of course, its very special features of which the College will become a part.

But the Community College character will not only result from the task of serving the community, e.g., by training present and future employees for the industries on whose economic output the Region depends, the College feels strongly that it must also play a leadership role in the community - culturally, economically and technically.

With a faculty highly competent to enter the life of this community in leadership roles, and eager to actually participate in an exciting and unusual process of vigorous growth and pioneering in a great variety of fields, the College is bound to play a very substantial part in pushing frontiers north.

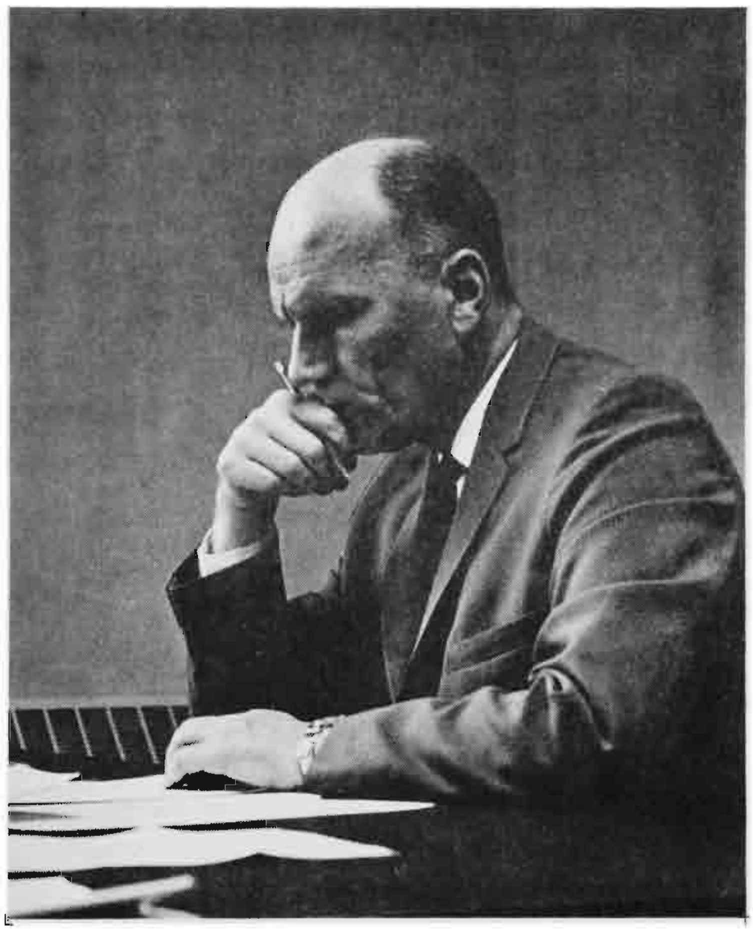
After only a few months of operation it is quite evident that this fermentation has started. The New Caledonia Institute for Environmental Studies has begun to form the western hub of the Mid Canada Corridor movement. The drama and music departments are co-operating with existing groups in the community. Many appearances on television and radio, and speeches in clubs and other organizations by faculty members, have established contact.

The Canada Council has supported financially a series of poetry readings by renowned Canadian poets. This will be extended into other fields of the arts, the sciences and the technologies. A branch of the Humanities Association of Canada is being formed at the College. An 800 seat auditorium allows us to open all these offerings to the public.

Many faculty members are invited into secondary school classes for lectures and talks in their specialty. The New Caledonia Data Centre beyond using the computer as a teaching tool in the data processing classes - is fast becoming an important institution for educational and other organizations in the environment in their need for computer service.

This College tries to create a new atmosphere within its doors. We do not believe in the sanctity of final examinations. Students are measured all year long in small oral and written tests. Our goal is to make the student participate in the formulation of a philosophy and a suitable working mechanism of the College which is designed, above all, to serve him. The Sword of Damocles of Final Examinations and the fear hovering over American places of learning at the end of each year, is removed. We are supported in this by sound evidence that the measuring procedure used in the past was unable to do justice to very many students, because it did not measure essential qualities and achievements of complex human beings. Problems of transferability to universities resulting from this attitude will not be allowed to arise. Our grade-point measuring device differs from that in the universities only in the method of arriving at that figure.

Students are participating in policy-making. This participation will extend as they mature into their second year.



BRIEF HISTORICAL BACKGROUND OF THE COLLEGE OF NEW CALEDONIA

A Regional College Committee, chaired by Dr. A. W. Mooney of Vanderhoof, was struck in 1963 by the Northern Interior Branch of the British Columbia School Trustees Association.

The Council of the College of New Caledonia was formed in November, 1967. It held its first meeting in March, 1968. Mr. Sam Evans, of Prince George, was elected Chairman.

A plebiscite in June, 1967, was won in participating school districts No. 54 (Smithers), No. 55 (Burns Lake), No. 56 (Vanderhoof), No. 58 (McBride) and No. 57 (Prince George). It was lost in school district No. 28 (Quesnel). In another plebiscite in November, 1968, Quesnel won membership with an 83% vote in favour of the College.

It was decided to plan for the opening of the College in September, 1969.

Mr. W. E. Franke, former President of the Lambton College of Applied Arts and Technology in Sarnia, Ontario, was hired as President. He took office in the administrative building of the Prince George Vocational School in September, 1968.

In his first report to the Council on October 11, 1968, he proposed a tentative academic program and the resulting space requirements. He also reported the appointment of seven Advisory Committees in technical areas.

All high schools of the region were visited, staffs and students addressed and a statistical survey made of the needs and aspirations of the senior grades with regard to a college program.

On December 7, 1968, a capital referendum was lost in four out of six districts. The Council decided to continue planning for the opening of the College in September, 1969, with operating funds only. Approval from all participating Boards was received.

A salary and work definition for faculty and staff was designed and personnel was hired to start working in June, July and August.

The College Council approved the creation of a portable structure, designed to hold offices, student and teacher lounges and the Data Centre (about 7000 square feet). It was ready for occupancy in October 1969.

The President designed the College Emblem.

The College opened on September 15, 1969, using the facilities of the Prince George Senior Secondary School, with an enrolment of 250 students.

Official opening by the Honourable Donald L. Brothers, Minister of Education, took place on October 10th, 1969.

ADMINISTRATIVE STAFF AND FACULTY

Administration

President -	W. E. FRANKE	- B.A. (U. Toronto), M.Sc. (U. Ottawa)
Registrar -	ABRAM ENNS	- B.A. (U.B.C.), M.Ed. (U.B.C.), Ph.D. (U. California)
Librarian -	B. E. HUSBAND	- B.L.Sc. (U.B.C.), B. Com. (U.B.C.) M.B.A. (U.B.C.)
Bursar -	B. J. VAN RHYN	- C.G.A. (U.B.C.)

Faculty

Commerce and Business	M. BUZAS	B.Com (Sir George Williams U.) M.B.A. (McMaster U.)
Biology -	MRS. M. E. ENNS	- B.A. (U.B.C.), M.Sc. (Scripps Institute of Oceanography)
	C. JAROSCH	- B.S.A. (U.B.C.) Ph.D. (candidate) (U. Western Ontario)
Chemistry	UDO ANDERS	- B.Sc., M.Sc. (Germany), Ph.D. (U. Alberta)
	G. BAUSLAUGH	B.Sc. (McGill), Ph.D. (McGill)
Data Processing -	A. L. LEVERIDGE	- Dip. Tech. (England), C.I.M. (Ontario)
Dramatic Arts -	R. K. WHITE	B.A. (U.B.C.), M.A. (U.B.C.), Ph.D. (candidate) (Indiana U.)
English -	MISS M. FALLIS	- B.A. (U.B.C.), M.A. (U. Toronto)
	C. R. BOYLAN	B.A. (U.B.C.), M.A. (U.B.C.)
	B. McKINNON	B.A. (Sir George Williams U.), M.A. (U.B.C.)
French -	G. G. GIRVAN	- B.A. (Carleton U.), M.A. (Carleton U.)
Geography -	J. A. McVEY	- M.A. (U. St. Andrews, Scotland), M.A. (S.F.U.)
German/Music -	I. K. RAMINSH	- A.R.C.T. dip., B. Mus. (U. Toronto), M.A. (candidate) U.B.C.
History -	N. KENT-BARBOUR	B.A. (U.B.C.), Docteur d'universite (Sorbonne)
Mathematics/Anthropology -	D. DRAKE	B.A. (Harvard), Ph.D. (U. Colorado)
Mathematics/Physics	O. ABOUL-ATTA	B.Sc. (Alexandria U.), M.Sc. (Stanford U.), Ph.D. (Pennsylvania U.)
	A. T. DEAS	B.Sc. (U.B.C.), M.Sc. (U.B.C.)
Physics/Geology -	E. L. FAULKNER	B.Sc., A.R.S.M. (Royal School of Mines, London, England), M.Sc. (U. Saskatchewan), Ph.D. (U. Saskatchewan)
Psychology -	F. GELIN	- B.A. (San Diego State College), M.A. (Stanford U.)

GENERAL INFORMATION

Courses of Instruction

Whereas the Arts and Science program is designed to articulate smoothly with the third year curricula of the universities in British Columbia, the Commerce and Business Program and the Data Processing Program have been planned and conducted to serve the dual purpose of providing a suitable two-year program for transfer into the third year of some universities, not necessarily in British Columbia, and also to provide an opportunity for students not university-bound to obtain a well-rounded education for immediate employment in industry. All students successfully completing a two-year program at the College of New Caledonia, will receive a College Diploma.

The College Terms

Fall (F), Winter (W), Summer (S)

The College of New Caledonia's Calendar is divided into three equal segments consisting of four months each called terms. These terms are named after the seasons: Fall, Winter and Summer and begin on September 1st, January 1st and May 1st respectively. The College is in session for 14 to 16 weeks per term. The combined academic endeavours of two terms (a minimum of 30 weeks) constitute an academic year at CNC. The College will not be in operation during the summer term this year. Students who plan to enrol in any college program must be aware of this two-term balanced year since the instruction of most courses begins in September and terminates in April.

Residence

The College of New Caledonia neither owns, rents, nor supervises any student housing. During the later part of August an Accommodation List is compiled and duplicated. This list contains addresses and phone numbers of home owners who have rooms or room and board available for college students. A copy of the list will be supplied on request to any out of town student.

Admission

ADMISSION

General Requirements

As a general rule students applying for admission to an academic transfer program at CNC must have completed Grade 12 on the Academic Technical Program or provide evidence of an equivalent level of high school education. Students who select other programs of study must be prepared to provide the Board of Admissions with evidence of having achieved the level of education and/or practical experience considered pre-requisite in order to be able to benefit from that program. The slight deviations from this regulation will be discussed under "student status".

The admissions procedures are as follows:

(a) Acquire an application form from the Registrar's Office and complete all parts of it.

(b) Detach the Confidential Section and send it to the Counselling department of the educational institution last attended.

(c) Should you be a mature prospective student who has not completed high school, please enclose a list of positions with an explanation of your activities in each as they relate to your academic preparation. Supply three references.

(d) Send the completed registration form, ancillary information, $10.00 application fee and a transcript of your High School marks to the Registrar of CNC.

(e) Upon admission to the college, a letter of acceptance and a medical form will be sent to you. All students who are admitted to CNC for the first time taking nine units of credit or more must have a medical examination. The medical card will be returned to us by your physician.

COLLEGE PRIORITY LIST

PRIORITY 1 — Full-time students resident within the college region who have completed high school and obtain a satisfactory grade point average for entrance into the program of study they have chosen.

PRIORITY 2 — Full-time Out-of-Region students with transcripts of academic preparations equal or equivalent to those required of students under Priority No. 1.

PRIORITY 3 — In-Region mature students taking a full program of 12 to 18 units of credit.

PRIORITY 4 — Out-of-Region mature students taking a full program.

PRIORITY 5 — Conditional students.

PRIORITY 6 — In-Region, part-time students taking 11 or less units of credit.

PRIORITY 7 — Out-of-Region part-time students.

PRIORITY 8 — Auditors.

(*Mature Students*) — A mature student is defined as an adult who is over 19 years of age, is not a recent high school graduate, and has had a minimum of 12 months employment in business and industry. The administration of The College of New Caledonia believes that in spite of minor deficiencies in their high school education, many adults have demonstrated their competence in some aspect of business or industry and thus should qualify for entrance to an appropriate program. All applications of mature students will be assessed on their individual merits. The College of New Caledonia will endeavour to assist mature students to augment their education in their specialties. This will provide an opportunity for advancement resulting in the preparation of more versatile and productive members of society.

STUDENT STATUS AT THE TIME OF ACCEPTANCE

(a) GEOGRAPHIC — The geographic origin of a student determines his In-Region or Out-of-Region status. An In-Region student is defined as a person enrolled in a college program who has been domiciled within any of the participating school districts for a minimum of 12 months prior to September 1st of the year in which he begins his education at CNC. An In-Region student is eligible for the lower assessment of tuition and may be eligible for the regional subsidy.

(b) ACADEMIC — All students will be assigned an academic status. This status is determined by the level of previous success of the student's preparation and the program he chooses.

1. *Adequate status* is assigned to a student who has completed all formal pre-requisites with satisfactory grades to permit him to undertake the program of studies he has chosen with the expectation of satisfying the academic requirements at a pre-defined level of performance.
2. *Conditional status* is assigned when a student has not completed the pre-requisite education and (depending on his choice of program) is lacking a course or two. Such a deficiency in course preparation must be rectified before an adequate status can be assigned. A student (except mature student) may apply for entrance at CNC without a completed High School education if he has a deficiency in no more than two courses. He will not be permitted to take courses at CNC to which his deficiencies are pre-requisite. These deficiencies must be removed before he will be given full credit for a completed first year. No student can graduate before his conditional status has been removed.
3. *Probationary Status* is assigned to students who find themselves in any of the following academic situations:
   i. A mature student who has not completed high school.
   ii. A student whose high school education is not considerate equivalent to that of the academic preparation of the B.C. Secondary Schools.
   iii. A student whose previous academic preparation cannot accurately be assessed.
   iv. A student who has entrance to CNC but whose marks at entrance would leave reasonable doubt for success in the particular program that he chooses.
   v. Any student whose current grade point average drops below 1.5 is placed on the probationary student list.

Note: The progress of all probationary students is reviewed at the end of every term. The faculty members teaching each student are involved in a re-appraisal of this group of students so that those doing satisfactory work will have their status re-assigned.

4. *Non-participating status* — Students who are taking one or two subjects for credit will be assigned this status. These students are often older and have no desire to qualify for a CNC Diploma or Certificate. Therefore, the usual specific demands of completing the requiremeents of that program of studies are not made. Those students must provide evidence of having achieved the necessary pre-requisite for the course or courses entered.
5. *Auditor status* — Any interested member of the community is permitted to attend any course at CNC as an auditor (one who sits in and listens). A priority in attending classes must be extended to students who are taking courses for credit and auditors will be admitted to classes if space permits. Auditors are subject to a nominal tuition fee of $25.00 per course. They may or may not do the assignments of the course and will receive no official grading at the end of the year. Students may not audit a course and take the same course for credit the following year.

RECOGNITION OF WORK COMPLETED AT OTHER INSTITUTIONS OF HIGH EDUCATION

All students who wish to be credited with course work completed at other accredited institutions of higher education must request an official transcript of marks to be sent by the institution previously attended to the Registrar at CNC. All courses will be assessed and their CNC equivalences will be assigned. The maximum number of equivalent credits that a student expecting to graduate with a CNC diploma can expect to have recognized is 18. (See requirements of the Diploma.)

COURSE COUNSELLING

The Registrar of the college will assist students in the selection of courses by which the requirements of a desired program of studies are satisfied. Interviews by prospective students are welcome. Students who need specific information about transferring to a B.C. University should also check with the registrar who will have the latest information about degree requirement at each institution. Copies of the current calendars of other colleges and universities will be found in the library. Problems of a financial nature can also be discussed with the registrar who is the financial aid officer of CNC. Other more personal problems may be discussed with the counsellor.

REGISTRATION

The important college dates are printed on page 3 of this calendar. Registration is not considered complete unless the student has made formal application to the college and submitted his application form completed in full to the registrar preferably before September 1, 1970. The student's confidential report, a transcript of academic marks and the medical form should also be completed and returned to the registrar's office by that date. During registration week students will present themselves at the administration offices where they will prepare a time table of their program and pay or make arrangements to pay the current term tuition and fees.

Every potential student who formally applies to CNC for admission will have a registration number assigned to him. This number should be referred to in all written communication with the college.

Tuition and Fees

TUITION AND FEES

Tuition fees are paid in two instalments and their due date coincides with the formal registration dates of the college. The sum of these two instalments represents the tuition fees for one academic year. Although there is a difference between the amounts of tuition fees assessed out-of-region and in-region students, the various fees are the same for all.

FALL TERM

IN-REGION (Full-time Students)	
Application Fee (non-refundable) to be remitted with the Application form before September 1	10.00
Tuition for a full-time student	125.00
Student Activity Fee	15.00
Total	150.00
IN-REGION (Part-time Students*)	
The tuition of part-time students will be assessed by the number of units of credit taken at $17.00 per unit (Amount due equals $12.00 per unit. Student Activity Fee will be $3.00 per unit to a maximum of $24.00 for the year, amount due for the Fall Term equals $2.00 per unit. Application Fee of $10.00 is standard.	
OUT-OF REGION (Full-time Students)	
Application Fee	10.00
Full-time Tuition	210.00
Student Activity Fee	15.00
Total	235.00
OUT-OF-REGION (Part-time Students)	
Part-time Students will be assessed $24.00 per unit of credit. Amount due equals $16.00 per unit. Student Activity Fee equals $2.00 per unit.	

All students taking laboratory science courses will be assessed by the Science Department on any damage to equipment that may be incurred throughout the year.

WINTER TERM

Tuition and Fees due January 4, 5, 6.	
IN-REGION (Full-time Students)	
Tuition for full-time students	115.00
Student Activity Fee	10.00
Total	125.00
IN-REGION (Part-time Students)	
Tuition for part-time student	5.00 per unit
Student Activity Fee	1.00 per unit
OUT-OF-REGION (Full-time Students)	
Full-time tuition	130.00
Student Activity Fee	10.00
Total	140.00
OUT-OF-REGION (Part-time Students)	
Part-time tuition	8.00 per unit
Student Activity Fee	1.00 per unit

Audit Fees are $15.00 per course — per term.

* *Enrolled in courses which add up to* 11 *units of credit*

Other Fees

A fee of $10.00 per term will be assessed against all students who are negligent in their financial commitment to CNC. These come into effect on September 18, 1970 and January 20, 1971 respectively.

Refunds

Requests for withdrawals or course adjustments between September 8 and October 16, 1970 will be honoured and up to a 50% reimbursement of the tuition or 50% of the difference in the re-assessment of their tuition will be refunded.

ESTIMATED EXPENSE

Out of town students should be aware of other expenditures to be met during the college year in excess of tuition fees. An approximate estimate of these would be as follows:

Cost of Books (approximately) $20.00 per course
Room and Board from $85.00 to $100.00 per month
Local transportation $10.00 to $15.00 per month
Incidentals

FEES

Summary of Fees for the Academic Year 1970-1971

	Tuition	*Student Activity*	*Total*	*Re-instatement Fees*
IN-REGION:				
Full Programme (12-18 units)				
First Term	$ 135.00	$ 15.00	$ 150.00	$ 10.00
Second Term	115.00	10.00	125.00	10.00
Part-time - per unit				
First Term	12.00	2.00	14.00	10.00
Second Term	5.00	1.00	6.00	10.00

Full Program OUT-OF-REGION Tuition		Part-time OUT-OF-REGION Tuition	
First Term	$ 220.00	First Term	$16.00 per unit
Second Term	130.00	Second Term	8.00 per unit

Student Activity and Reinstatement fees as above

Audit	$ 15.00 per course per term

A.

1. All cheques and money orders must be payable to The College of New Caledonia. Post-dated cheques are not acceptable.
2. All fees are payable prior to the commencement of classes. Fees may be paid at the Bursar's office during regular office hours or such extended hours as may be posted at the cashier's counter.
3. A student whose fees are not paid within fourteen (14) days after commencement of each term will be excluded from classes and his registration cancelled.

4. Applications for reinstatement will require the approval of the Registrar. All outstanding fees including the reinstatement fee must be paid before the student will be permitted to resume classes.
5. Payments with NSF cheques will be accepted as of the date that the cheque is made good. Items 4 and 5 will apply.

B. Miscellaneous Fees:

1.	Application and registration (will be credited to tuition)	$ 10.00
2.	Re-read of final assessment	5.00
3.	Transcript of assessment	2.00
4.	Duplicate diploma	3.00
5.	Reinstatement fee	10.00

C. Withdrawal:

1. Students who, with the approval of the Registrar, voluntarily withdraw may receive a refund at the discretion of the President.
2. Students who are requested to withdraw by the Registrar for reasons of discipline or unsatisfactory progress may forfeit any right to a refund.

D. Bookstore

A bookstore will be operated by the Bursar's office for the convenience of the students. An attempt will be made to stock all prescribed texts. Bookstore location and hours will be posted at the Bursar's office.

E. Subsidy:

Students who are entitled to receive subsidy payments and who are on the Registrar's approved list will receive an allowance of up to $40.00 per month. Cheques may be picked up at the Bursar's office on the last school day of each month.

IN-REGION STUDENTS

In-Region students are all students who for the 12 months preceding the first day of September have been domiciled within the geographic boundaries of any one of the six participating school districts of which the Regional College District is comprised. This includes independent students and dependent students whose parents own a house or have rented living accommodations for one full calendar year prior to September 1st.

OUT-OF-REGION STUDENTS

Out-of-Region students are all those enrolled in a program at CNC who have not resided within the Regional College district for 12 months preceding the first day of the first term of the college year.

Academic Objectives

ACADEMIC OBJECTIVES

Graduation

All students who have satisfactorily completed the requirements of the program of studies in which they have registered will be eligible to graduate. CNC will have graduation ceremonies once a year. Convocation in 1971 will be held on May 8th. Certificates and Diplomas will be presented at this time. Students graduating in absentia must file a request form with the Registrar before April 23.

Requirements of the Diploma

1. A student on a transfer program must have acquired a minimum of 30 units of credit with a minimum GPA of 2.00 and no grade lower than a C within his major.
2. Within his program of studies he must have taken a course combination that satisfies the following formula:
   - — 6 units of credit in English.
   - — 9 units of credit in a major (3 units of first year credit and 6 units of second year.)
   - — a minimum of 12 units of credit at the second year.
   - — humanities students, 3 units of credit in a lab science.
   - — science students, 3 units of credit in the humanities.
3. A student on a non-transfer program must complete all courses within the program with an average passing grade and no course grades within his specialty or major lower than a C.
4. Out-of-Region students who claim CNC course credits for work done elsewhere will have their transcript assessed in terms of the College of New Caledonia equivalents at entry. A CNC diploma will be awarded upon the minimum completion of 12 units of credit of which 9 units must be at the second year level.

Requirements of the Certificate

A CNC certificate will be awarded to all students who have satisfactorily completed all courses within a program of studies requiring less than two years of full-time study.

Transfer to Other Institutions

The requirements for transfer to all B.C. Universities are not identical. They vary with course requirements and grade point averages considered acceptable for entry into 2nd or 3rd year. Furthermore, the minimal requirements of departments within each institution vary. Students should appraise their particular academic situation as it relates to transfer so that their expectations can be realized.

Grading System

GRADING SYSTEM AT CNC

Course Load

A unit of credit at CNC consists of one hour (at least 50 minutes actual) student-teacher contact per week for 30 weeks. The student is expected to attend all seminar laboratory sessions of the course without additional units of credit. Courses that are entirely laboratory in nature have a credit assessment of half to two-third unit per lab hour. All courses have units of credit assigned to them.

Since CNC is a Regional College in which all Diploma Courses are of two years duration, it follows that the expectation of students to graduate within that time should be met. B.C. Universities will credit CNC graduates with 30 units of credit towards the completion of a Baccalaureate degree requiring 60 units of credit. Full time students will take 12, 15 or 18 units per year so that 30 units will be acquired in two years. Tutorials and up-grading courses which don't carry credit may be assigned if deemed necessary.

Students entering Technology Programs are expected to acquire certain skills as defined by the advisory committees on each technology. It is quite possible to require students to take more than 30 units of credit. The emphasis here will be on completion of the essential education and training of that program and a de-emphasis on the collection of credits.

COURSE ASSESSMENTS

The College of New Caledonia is following the policy of *constant evaluation* in determining the competence of its students. This is one method of ensuring the greatest amount of student involvement in the learning process. Besides the learning of factual material, students do research projects, present papers in class, and are encouraged to actively participate in classroom discussions. The students are assessed on their performance in all of these activities. This cumulative assessment of the student acquisition of knowledge through the various written tests and their total participation is the most accurate measurement of their competence. The capriciousness of the conventional "final examination" is removed.

Grades and Grade Point Average

The grades by which academic success will be reported are by alphabetic symbols which in turn have numerical weight. The weighted numerical average is called the Grade Point Average or GPA. The Current GPA refers to the grade point average acquired during one term or one academic year of study at CNC. The Cumulative GPA represents the average of all terminal assessments assigned by the evaluation of course equivalencies and the achievements at CNC.

The alphabetic symbols used are these:

A — designates excellent or outstanding work
B — indicates very good work
C — means that the student has good work
D — passing credit given
F — failed
I — incomplete
P — pass
W — withdrawn

The numerical equivalents of alphabetic symbols are based on a 5 point scale, e.g. 4, 3, 2, 1, 0.

A equals 4
B equals 3
C equals 2
D equals 1
F equals 0

The GPA is calculated by finding the sum of the numerical grades multiplied by the number of credits of the course in which each grade was achieved; this is then divided by the total number of credits taken that term or year.

EXAMPLE

Subject	*Units of Credit*	*Letter Grade*	*Grade Points*	*Calculation of GPA*
English	3	A	4	12
Physics	2	B	3	6
Physics	1	B	3	3
Math	3	B	3	9
Chemistry	3	C	2	6
Psychology	1½	C	2	3
Psychology	1½	D	1	1½
	15			40½

$$\text{Current GPA equals } \frac{40.5}{15} \text{ equals } 2.70$$

Maintenance of Academic Standing

The primary function of the faculty at CNC is the teaching of students. Under the system of constant evaluation, it is the prerogative of the student to assess his curricular difficulties as they arise and meet with his teachers at an appointed time. Students therefore have access to their teachers in and out of the classroom or laboratory setting and should appraise themselves of their rate of progress.

The reports at the end of the first term of the college year are a summary of the students' progress. As these are not *final* marks they will not become part of the students' permanent record nor will copies of these marks be sent out as a formal transcript of marks. Courses that have been completed in the first term will be formally reported and recorded at the end of the college year.

Students should be aware of the following:

1. All students who have current GPA of less than 1.5 will automatically be on the Probationary List for the following college term.
2. All students who have a cumulative GPA of 0.60 or less will be asked to withdraw. Auditors are not formally registered in any program. Their work is for their self-improvement and no credits are assigned. No reports will be sent out to them.

Academic Records and Transcripts

It is the policy of the College of New Caledonia that all CNC students should have control of their own record files. Pursuant to this, no transcripts or information will be sent to any university or potential employer without the formal request of the student.

Original transcripts submitted at the time of admission will be returned to the student when a request is filed with the Registrar. Duplicates of these essential forms will be filed before the originals are released.

All students may request one transcript free of charge. There will be a charge of $2.00 for each additional one.

No transcript will be issued to or for a student who has not made arrangements satisfactory to the Bursar to meet any outstanding indebtedness.

All appeals for a re-assessment must be accompanied by a fee of $5.00 for each course in which re-assignment is sought. If the mark is raised the $5.00 will be refunded.

Regulations

REGULATIONS

1. Responsibilities of the Students

A. TO THEIR STUDIES

It is the responsibility of the students to keep their work up-to-date and to complete assignments as required. Final grades are based on a number of aspects, such as written class and laboratory assignments, general preparation, oral reports, discussion critiques and tests attempting to most accurately assess the degree of the students' success in the learning process. Students are responsible for submitting an accurate copy of their time-table and their latest Prince George address and phone number. It is the responsibility of the student to ensure that all requirements of his program of studies are met so that he will graduate in due time.

B. TO THE FACULTY

All faculty members are available for consultation with students either during posted office hours or by arrangements. Students should take advantage of small-group seminars and tutorials and work closely with members of the faculty to enrich their college learning experience.

C. TO THE COLLEGE

Admission into a program of studies at CNC is a privilege extended to qualified applicants. Acceptance by the college carries with it the obligation to maintain a mature and responsible standard of conduct, deportment and dress. As the image of the College is reflected by the students, it is their duty to live by the rules of the college and to observe the laws governing the neighbouring community.

D. TO THE COMMUNITY

As the college is organized and operated by the six participating school districts as a public service at the expense of the community, it is the responsibility of the student to prove the value of this institution at all times.

2. Attendance

There is no official attendance record kept at CNC. For students drawing a subsidy or studying through the benefits of bursaries or loans, full-time attendance is one condition for their continuation. Since the college has continuous assessments, no excuse except that from a medical doctor will be accepted as legitimate for any absence. Should a student be away on college business, a notice of such activity, their place and date and the names of the students involved should be sent to the Dean of Studies in advance. Students should also make arrangements to make up their course work which was missed because of the absence.

3. Time Table Changes

A. BY THE COLLEGE

The administration of the college prepares a college time-table to permit the greatest flexibility in the selection of courses within programs of studies. The college reserves the right to change the time and meeting place of any program, course or section for the greater benefit of those involved. This includes the deferral of course offerings, limiting of the number of sections per course and the combining of sections.

B. COURSE CHANGES

Students are encouraged to visit classes other than those which are obligatory within the program of studies chosen. CNC permits the greatest flexibility in the students' choice of electives. To allow such visitation, permanent class lists will be prepared on September 14 and students will normally not be permitted

to change courses after this date. Only upon the agreement between the Faculty members teaching the courses in question and the Registrar can changes be made. A new student time-table indicating the course change must be deposited with the Registrar on the date that the course change takes effect. October 16, 1970 is the last day that such course changes will be accepted.

C. SECTION CHANGES

A student may change his time-table from one section to the other only with the permission of the Faculty members involved. Once again, the Registrar should be notified about such changes.

4. Withdrawals

A. FROM THE COURSE

Students wishing to withdraw from a course should watch their program of studies. After this a course adjustment form should be requested from the Registrar. This form requires the student to decide whether he wishes to defer or discontinue his study of that course. It also requires the Faculty member's and the Registrar's signature. This procedure is useful in the event that the student wishes to be reinstated in that course at a later date.

B. FROM THE COLLEGE

A student wishing to withdraw completely from the CNC must request a Withdrawal Form from the Registrar's Office. This form requires the signatures of the Librarian, Bursar and Registrar. Unless the student formally submits a Withdrawal form, his marks will be summarized and reported and thus become part of his academic record.

5. Changes of Address

Students must provide the college with their home address and phone number as well as their local or Prince George address and phone number by completing the Registration Form at the beginning of each term. This is important since official letters such as the marks at the end of the second term will be sent to the last home address on record. The local address is needed so that students may be contacted during the term.

6. Official Notices

Notifications or announcements will be made in class by Faculty members or through the College Calendar, the publication of pamphlets, notices posted on notice boards or entries in the student newspaper, "Quun". The origin of all notices and announcements at CNC must be identified.

Services

SERVICES OF CNC

The Library

The College Library is presently located on the mezzanine floor of the Prince George Senior Secondary School Library. College students have access to the facilities and materials in the Secondary School Library which has a collection of 11,000 volumes and seating capacity of 220, mostly in the form of single study carrells. During the fall and winter terms the Library is open Monday through Saturday.

The College Library is developing as resource centre with a rapidly growing collection of books, periodicals, microfilms, government documents and other materials. It is expected that additional services will include photocopying facilities. Personal assistance is available at all times from members of the library staff.

The services of the Library are available to all students who possess identification cards issued at the time of registration. A Student Guide describing the facilities and services of the Library, and the regulations governing Library use will be distributed during the registration period.

College libraries are undergoing a rapid metamorphosis into learning resource centres. The change is a result of the many innovations in teaching methods and the adoption of the multimedia centre which serves as a focal point for individualized, self-paced learning. The College of New Caledonia Library will include many types of learning materials as its resources are expanded.

The Library at New Caledonia serves students and faculty by providing the learning resources required as part of the instructional programs. This collection of curriculum oriented materials is being supplemented with reading materials of more general interest.

Computer Centre

The Computer Centre of the College of New Caledonia currently consists of an IBM 1130 Computer system with single disk operation, card input and card punch, typewriter or line printer output.

The system is backed up by keypunch, verifier, sorter and reproducer, card machines. The machine is programmed in Fortran, RPG, Assembler, and SL1 (a subset of PL1) and is backed by a wide variety of programs and subroutine packages available for business or scientific use.

The primary function of the machine is as a teaching tool, but it is also currently used for student record keeping and some administrative uses. The machine is also available for rental by any outside firms or businesses and currently is being used by such diversified users as pulp mills and school boards.

Student Activities

The following is a listing of the major student activities of the college year 1969-1970:

A. The student council with its committees on policy, the constitution and planning entertainment.

B. Literary and publicity.
The student newspaper "Quun" a bimonthly publication.
Poetry Magazine.
Course evaluation through critiques.

C. Clubs
Outdoor Club, Chess Club, Sensitivity Group, Radio Club, Photography Club.

D. Group Activities.
Basketball games, Conferences with affiliated groups.
The Women's Caucus.
Moratorium Day Protest
Pollution Day
Field trips relating to courses
Naramata Retreat

Socials and dances
Canoe trip and hiking

E. Guest speakers invited by the students with assistance by the faculty:
Al Purdy (poet)
Bill Bissett (poet)
Barry McKinnon (poet)
W. O. Mitchell (writer)
Judge J. O. Stewart
Peter Amyooni (Indian Affairs)
An Economist
Woman Doctor
Labour Union from a local Pulp Mill
Ben Ginter (Industrialist)

Student Placement Office

The Registrar of CNC from time to time receives requests from local businesses and industries for students' help. The jobs offered to students may be for a few hours a week or for full time summer jobs. The description of the job, its location and the rate of pay are noted. This information is typed, duplicated and sent to the student placement committee.

The placement committee distributes this information and interested candidates then make applications to fill the position. It is in the interest to the student body and the prime concern to the placement committee that a good liaison between the students of CNC and the industrial and business community is fostered and maintained. The placement committee therefore tries to ensure that all such jobs are filled.

Plans for permanent job placement and a work study program relating to the technologies are now being drafted and will become operational in 1972.

Student Facilities

The students of New Caledonia have their own student lounge and council room of which they have exclusive use. These are the headquarters for the various student organizations.

Assuming that CNC will continue to use Prince George Senior Secondary School during the college year 1970/71 students are reminded to use the student parking lot to the north of the High School.

The lockers not in use by the High School are available to students for a fee of 50c and are offered on a first-come-first-served basis.

The College Bookstore is operated under the direction of the Bursar on a non-profit basis. Please check on the time when the bookstore is open.

Scholarships, Bursaries and Loans

SCHOLARSHIPS, BURSARIES AND LOANS

Scholarships and Awards

Government of British Columbia Scholarships — To be eligible a student must have completed secondary school graduation and be enrolled in five College level courses or a full Technical program.

Awards are based on current term results and will be applied to fees in the subsequent term or year at Vancouver City College, University of British Columbia, Simon Fraser University or The College of New Caledonia. Applications may be filed each term and *must* be submitted prior to the writing of the final term examinations.

First-class Scholarship (representing three-quarters of tuition fees), Upper Second-class Scholarships (representing one-half of tuition fees), and Lower Second-class Scholarships (representing one-third of tuition fees) are awarded on the basis of a Grade Point Average (GPA).

Prince George Forestry Scholarship

A scholarship of $200, donated by Industrial Forestry Service Ltd. is offered annually to a student entering First or Second Year Forestry with at least a second class standing, who graduated from a Prince George High School or College or obtained Forestry entrance requirements at the College of New Caledonia. It will be awarded by the University of B.C. Scholarship Committee on the recommendation of a special committee chosen from Industrial Forestry Service Ltd., the B.C. Forest Service in Prince George, and a local Prince George industrial concern. Applications should be submitted to the University of British Columbia by July 31st. If no student qualifies the amount of the scholarship will be contributed to the Prince George Forestry Loan Fund and will be available for loan without interest to any student entering First or Second Year Forestry.

Bursaries

Government of British Columbia Bursaries (Awards made primarily on the basis of demonstrated financial need): To be eligible a student must have completed secondary school graduation with an average not lower than 65%, must be enrolled in five College level courses or a full Technical program at the College of New Caledonia and must undertake to attend for two continuous terms.

Normally assistance is in the range of $75 to $150 per academic year. Larger amounts may be authorized in exceptional cases. Applications must be submitted to the British Columbia Department of Education by August 5 of each year.

Loans

Canada Student Loans: To be eligible a student must:

A. have completed secondary school graduation (any program) and be enrolled in a College Technical program.
B. be enrolled in five College level courses or in a full College Technical program.
C. undertake to attend for two continuous terms at the same institution.

Loans of up to $1,000 are available each academic year (two continuous terms) to a maximum of five years and are interest-free until six months after completion of full-time post-secondary studies directed towards a degree or diploma.

A loan will be granted only after the student is formally enrolled in a full-time program. Students thus must have sufficient funds to pay for fees and books at registration.

Canada Student Loans are made for education purposes only and the amount granted will be based upon demonstrated financial need.

THE COLLEGE OF NEW CALEDONIA SUBSIDY

Equalization of educational opportunities is extended to all In-Region students of The College of New Caledonia through the subsidy paid by The College of New Caledonia.

All students living in excess of 20 miles from the college can apply for it. A full-time student taking 4, 5 or 6 courses (12, 15, 18 units respectively) of college level may receive the maximum of $40.00 per month during the months the college is in session. Since all programs are of two years duration, students may receive the subsidy for no longer than two years. Part-time In-Region students taking three college level courses (9 units) may apply for a maximum of $30.00 per month during which the college is in session. Several programs require the student to take six courses (18 units) per year for two years. Consequently programmed In-Region students may draw this subsidy for no longer than four (4) years. Students taking one or two courses per year are not eligible for this subsidy. Subsidies are paid at the Bursar's Office on the last day of the month. No student is eligible for subsidy longer than two years as a full-time student or four years as a part-time student. The full and part-time student rating as the basis for paying subsidy is determined by the number of courses taken at registration in September.

To receive this subsidy a student must:

A. Apply for it to the Registrar so that his name will be placed on the subsidy list.
B. Prove that his residence is over 20 miles from the college.
C. Be formally enrolled as a CNC student either full-time (12-18 units) or part-time (9 units).
D. Attend classes as scheduled during the month when payment is made.

Programs Offered

PROGRAMS OFFERED AT CNC

The Regional College Council determines the education needs for higher Education and approves the development of Programs of Study offered at the College.

Students may select a program of studies through which they will acquire the first two years of academic preparation towards a degree. Other programs are designed to prepare students for careers in business and industry through two years of intensive post-secondary education and training. No program at CNC is considered "terminal".

Arts and Science Program

Most students who choose this program are interested in a professional career. The general entrance requirement for this program is high school graduation on the Academic Technical Program with a 2.00 GPA. All students are required to take English and are allowed to select any major subject area for which they have prerequisites at the Grade 12 level. Course selection with this program of study permits the student to complete two academic years of education at CNC prior to transfer to a University where he will graduate with a B.A., B.Ed., B.Sc., or B.Com. Students who plan to go into Pharmacy, Home Economics or other professions which offer specific professional courses at the second year level are advised to transfer to a university after completing one year at CNC.

These are the subject areas in which students may select a major:

Accounting	German
Anthropology	History
Art*	Math
Botany*	Music
Biology	Philosophy*
Chemistry	Physics
Economics	Political Science*
English	Psychology
French	Sociology*
Geography	Theatre
Geology*	Zoology

A typical course selection for students may be as follows:

Arts	*Science*
FIRST YEAR	
English 111	English 111
History 112	Math 111
Geography 111	Chemistry 111
French 110	Physics 111
Psychology 111	Sociology 111
SECOND YEAR	
English 211	English 211
History 211	Math 211
History 212	Physics 211, 212, 213
Psychology 211	Chemistry 211
Biology 111	

* *Only the first year courses of these subjects will be offered during the* 1970/71 *academic year,*

Commerce and Business

The accelerated changes in technology and the applications of technology in recent years has greatly increased the complexity of modern business. Consequently, to maintain its ability to compete, management has had to rely on a more scientific approach. The objective of this program is to educate those students who are willing to meet the challenge for professions and careers in business.

The course of study is designed to help the student develop the habits, skills, attitudes, and understanding essential to the business manager and administrator of

today. A thorough preparation consists of the assimilation of modern concepts and principles in business organization, management theory, accountancy, economics, data processing, marketing, business law, production, finance, personnel and industrial relations.

To achieve a balance between theory and practice the program uses lectures, case studies, seminars, group projects, and individual research.

Besides the opportunity of continuing his education, the successful graduate of this two-year program has a number of areas to choose from, including government agencies, financial institutions, public services, and a wide range of small and large business organizations.

Commerce and Business Administration Programs

The first year course load is identical for all programs.

FIRST YEAR

Math 116 - Math 117
Business Organization and Management 111
Accountancy 111
Economics 111
English 111

SECOND YEAR

In each program, *one* elective may be chosen from any second year course, the others must be from the business department.

GENERAL

Data Processing 111
Business Law 211
Accountancy 211 or Managerical Accountancy 212
Elective
Elective
Elective

ACCOUNTANCY AND FINANCE

Data Processing 111
Accountancy 211
Finance 211
Business Law 211
Elective (Math)
Elective

MARKETING

Data Processing 111
Business Law 211
Accountancy 211 or Managerical Accountancy 212
Marketing 211
Retail Merchandising 212
Elective

PRODUCTION

Data Processing 111
Business Law 211
Accountancy 211 or Managerical Accountancy 212
Production 211
Elective
Elective

PERSONNEL

Data Processing 111
Business Law 211
Accountancy 211 or Managerical Accountancy 212
Personnel 211
Elective
Elective

Data Processing Program

Business and Industry are faced with the problem of assembling and interpreting vast amounts of information. Information retrieval must be both timely and accurate. To accomplish this manually is becoming more and more difficult, due to the rate of growth of available data in today's changing world.

The need for electro-mechanical and electronic methods for processing data is increasing rapidly, and the need for people trained in the systems approach is considerable.

The Data Processing Program given at this College is a two year program, intended to qualify the graduate for employment as a computor operator or programmer; some will probably also be employed as systems analysts.

The course 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.

Courses with the Data Processing Program:

FIRST YEAR

English 111 or 150
Math 111 or 117
Accounting 111
Economics 111
Data Processing Fundamentals
One Elective

SECOND YEAR

English 250
Math 232
Accounting 211
Data Processing - Advanced 211
Data Processing for Business Usage - 212
Data Processing Systems Analysis - 213

Forest Technology

Any student desiring to enter the degree program which terminates after five years of academic study with the Bachelor of Science in Forestry, should enter the Science Program at The College of New Caledonia. The requirements for admission are as follows:

High School graduation on the Academic Technical program with a 2.00 average. His course selection should include English 12, Science 12 (Biology, Chemistry or Physics), Math 12, English 11, Science 11 (any two of Science at Grade 11 level), Math 11.

His course selection at The College of New Caledonia would be:

English 111, Biology 110 or 111 or Physics 111, Chemistry 111 or 222, Math 111 and 117, plus one elective.

It is recommended that students transfer into the Department of Forestry at a university after the satisfactory completion of the first year at The College of New Caledonia.

At The College of New Caledonia he would enter the first year of the Forest Technology with the understanding that he must choose one of two specialties in the second year.

FIRST YEAR COURSES	Units
English 111 or 150	3
Forest Measurement 160	3
Forest Science 111	3
Botany 111 or Biology 110	3
Chemistry 112 or 150	3
Physics 150	1½
Mathematics 150	1½
	18

Summer employment should be relevant to the choice of the specialty in the second year.

Second year courses will lead to a college diploma in Forest Production and Management or Wood Pulp Technology. This diploma leads to immediate employment in the forest industry.

Entrance requirement for the two-year diploma course in Forest Technology is graduation from high school in any program. Math 11 and Science 11 are pre-requisite.

Only the first year of this program will be offered at CNC during 1970/71

Early Childhood Education Program

This is a two-year non-transfer program designed to prepare students to qualify for the provincial Department of Health and Welfare license in teaching pre-school children in co-operative pre-schools, private nurseries and kindergartens and day-care centres. If the teacher has a B.C. Teaching Certificate, this training will be recognized as specialist training in public school kindergartens.

This program consists of course work and practical experience in nurseries and kindergartens within Prince George. Upon completion of this program the graduate will be able to organize, teach and supervise all activities of any of the above mentioned pre-school programs.

The entrance requirements to this Early Childhood Education program are graduation from high school on any program.

Courses to be taken are as follows:

FIRST YEAR

- ENG 150 English
- ECE 151 Child Growth and Development
- ECE 152 Personality Development
- ECE 153 Psychology of Learning
- ECE 154 Philosophy of Education
- ECE 155 Arts and Crafts
- ECE 161 Language and Literature for Pre-School Children
- ECE 162 Music and Rhythms
- ECE 163 Number Facts
- ECE 164 Play and Play Techniques
- ECE 165 Socials and Science
- ECE 190 Nursery School Practicum

SECOND YEAR

- ECE 251 Psychology - Family Life
- ECE 252 Group Dynamics
- ECE 253 Parent-Teacher Relationships
- ECE 260 Teaching Methods
- ECE 270 Government and Law
- ECE 280 Program Organization
- ECE 281 Evaluation
- ECE 282 Research Methods
- ECE 290 Kindergarten Practicum

Course Description

COURSE DESCRIPTION

Prerogative of the College

The College of New Caledonia holds the right to add to, change or discontinue any program, course or section of a course should the conditions warrant it. All changes will be announced prior to the date when they will become effective.

The minimum enrolment necessary before a first year course or any new course will be offered by CNC is ten. It is quite conceivable that some of the courses listed will not be offered in the 1970/71 academic year because of the small enrolment.

Course Code

All courses are identified by a code consisting of three letters separated by a dash from a digit number. This number identifies the course as being first or second year course and indicates whether or not university transfer is intended. Thus, courses numbered from 100 to 199 are first year and those numbered between 200 and 249 are second year courses. Courses numbering lower than 100 are considered to be upgrading courses for which no credit is given. Extra tutorials in the sciences are not numbered and no credit is given for them.

Courses numbering 100-149 and 200-249 indicate that they are designed for transfer, while other courses which number from 150-199 and 250-299 are not intended to fulfil degree requirements at a university.

Credits

A unit of credit is defined as one teacher-student contact lecture hour per week for two academic terms. With most courses in the physical sciences and foreign language a practical laboratory session is added to this, usually without credit. Thus most three unit courses require three hours of instruction per week as well as a three hour laboratory assignment per week for the courses mentioned above. Courses of only one term duration will be given half the usual number of units of credit based on the professor-student contact hours per week.

COURSE CODE

ACC Accounting
ANT Anthropology
ART Art
BOT Botany
BIO Biology
BUS Business Organization and Management
BLA Business Law
BFM Financial Management
BDM Production Management
BPM Personnel Management
BRM Retail Merchandising
CHM Chemistry
DPF Data Processing Fundamentals
DPA Data Processing - Advanced
DPB Data Processing for Business Usage
DPS Data Processing, Systems Analysis
ECE Early Childhood Education
ECN Economics
ENG English
FSC Forest Science
FSM Forest Measurements
FRN French
GER German
GOG Geography
GOL Geology
HST History
MAT Mathematics
MUS Music
PSC Political Science
PHI Philosophy
PYS Physics
PSY Psychology
SOC Sociology
THT Theatre
TUT Tutorial
ZOO Zoology

ACC 111 — PRINCIPLES OF ACCOUNTING — INTRODUCTORY

3 units

4 hours per week for two terms (3 lectures-1 lab.)

An introduction intended to develop the student's understanding of generally accepted accounting principles and of basic accounting concepts. It is intended to give the student an understanding of how these principles are applied to various business operations such as manufacturing, branch, etc.

ACC 211 — PRINCIPLES OF ACCOUNTING — INTERMEDIATE

3 units

3 hours of lecture—one hour of lab. per week

An intermediate course which intergrates the first year work with more advanced theory and application. Emphasis is placed on analytic method, interpretative processes, and procedural development.

ACC 212 — MANAGERICAL ACCOUNTING

3 units

3 hours of lecture — one hour of lab. per week

A course designed for the non-accounting and non-finance major. It is intended to further enhance the student's understanding of accounting concepts and principles. The interpretation and evaluation of accounting data is stressed.

ANT 211 — RACES, LANGUAGES AND CULTURES

3 units

3 hours of lecture and 2 hours of lab. per week

A survey in space and time of human racial characteristics, language families and characteristics, cultural areas, and the concepts of analysis pertinent to each topic of study; with special emphasis on Western Europe and native North America.

ANT 220 — CELTIC CULTURE IN BRITAIN

3 units

3 hours of lecture and lab. per week for 2 terms

Prehistory, early and semi-legendary history, phonetic and syntactic characteristics of Gaelic and Welsh; Readings (with dictionaries) in the literatures.

ART 111 — DESIGN FUNDAMENTALS

3 units

2 hours of lecture and 4 hours of lab. per week for 2 terms

An intensive study of creative art forms through experiments closely related to illustrated lectures and demonstrations. The basic visual elements of line, shape, volume, space, colour and texture. Variations in methods and use of materials.

ART 112 — INTRODUCTION TO THE HISTORY OF ART

3 units

3 hours lecture and 1 hour lab. per week for 2 terms

A general lecture and laboratory course with shade illustrations and prints to guide the student in recognizing and appreciating the main periods of style in the development of painting, sculpture, and architecture in Western Europe from the earliest times to the present.

BOM 111 — BUSINESS ORGANIZATION AND MANAGEMENT

3 units

3 hours of lecture per week for two terms

The objective of this course is to provide the beginning student with the basic knowledge of the field of business. The foundations of modern business, the scope of business activities, the types of business organizations, the business

environment, the functional areas of business, and the interdisciplining approach to the management of business are all discussed to demonstrate the role of business enterprise in our society.

BLA 211—BUSINESS LAW

1½ units
3 hours per week for 1 term

A general survey of business law with special emphasis on partnership and company law, bankruptcy, copyrights and patents, trademarks, law of contracts, and other pertinent subjects are studied.

BFM 211 — FINANCIAL MANAGEMENT

3 units
3 hours per week for 2 terms

An introduction to financial analysis, planning and control including working capital maintenance, investments and capital budgeting, capital structure policy, dividend policy, credit and collection, asset management, and growth strategies.

BDM 211 — PRODUCTION MANAGEMENT

3 units
3 hours of lecture per week for 2 weeks

Production planning and controlling, plant location and layout, product development, quality control, materials handling, purchasing, methods and time study, industrial engineering, and operations research are all discussed.

BPM 211— PERSONNEL MANAGEMENT

3 units
3 hours of lecture

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.

BRM 211 — MARKETING MANAGEMENT (Introduction Marketing)

3 units
3 hours per week for 2 terms

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.

BRM 212 — RETAIL MERCHANDISING

3 units
3 hours of lecture and 3 hours of lab per week for 2 terms

This course will introduce the student to the principles and methods of retailing. The retail store with its organization, merchandise strategies, sales promotion, customer services, and control procedures analysed.

BIO 110 — INTRODUCTORY BIOLOGY

3 units
3 hours lecture and 3 hours lab for 2 terms

A course of integrated lectures and laboratories in which the vast variety of living organisms and the basic life processess essential for their continued survival will be examined and discussed. Minimum entrance requirement is Biology 11 or equivalent.

BIO 111 — INTRODUCTORY BIOLOGY

3 units

3 hours of lecture, 1 hour seminar, 3 hours of lab per week for 2 terms

Pre-requisite: Biology 11

This course will explore the concepts of time, energy and information in relationship to biology: evolutionary processes and products, the procurement and utilization of energy by living organisms, and the organization of living organisms will be discussed.

BIO 211 — PRINCIPLES OF ECOLOGY

3 units

3 hours of lecture and 3 hours of lab per week for 2 terms

Pre-requisite: Biology 111 or equivalent or permission of instructor.

A study of plants and animals in relation to each other and to their physical environment. Special emphasis will be given to local ecological relationships. This course will require weekly field trips on either Saturday or a weekday morning during most of the College term.

BIO 252 — ENTOMOLOGY OF FOREST INSECTS

1½ units

2 hours of lecture and 3 hours of lab per week for one term

A lecture-laboratory course designed to introduce student of technology to the techniques of identification and classification, biology, importance and control of economically important forest insects.

BOT 111 — BOTANY

3 units

3 hours of lecture and 3 labs per week for 2 terms

A lecture and laboratory course introducing the morphology, taxonomy, ecology, physiology and development of major plant groups. Emphasis will be placed on local flora whenever possible.

CHM 111 — PRINCIPLES OF CHEMISTRY

3 units

3 hours of lecture and 3 hours of lab per week for 2 terms

Pre-requisite: Chemistry 12

Introduction to the fundamental principles of several areas of chemistry, including theoretical, physical, analytical, inorganic, organic and biochemical aspects. The course is intended for Science and Engineering students. Mathematics on the 100 level must be taken concurrently.

CHM 112 — CHEMISTRY OF LIVING SYSTEMS AND ENVIRONMENT

3 units

3 hours of lecture and 3 hours of lab per week for 2 terms

The course will consist of about one-third general chemistry, one-third organic chemistry and one-third biological chemistry. The object is to present material with a biochemical emphasis, primarily intended for those going on in the field of biochemistry, biology, pharmacy, forestry, agriculture, nursing, medicine and dentistry. Because it will deal extensively with the chemistry of living systems, and chemistry of the environment, the course may also prove to be a suitable choice for arts and science students requiring a lab science.

CHM 211 — PHYSICAL INORGANIC CHEMISTRY

3 units

3 hours of lecture and 4 hours of lab per week for 2 terms

Pre-requisite: Chemistry 111 or 112

Mathematics on the 200 level must be taken concurrently.

Discussion of thermodynamic and quantum mechanical aspects of matter. Solutions and solution kinetics. Principles of inorganic analytical techniques, including simple instrumental methods.

CHM 212 — FUNDAMENTAL PRINCIPLES OF MODERN ORGANIC CHEMISTRY

3 units

3 hours of lecture and 3 hours of lab a week for 2 terms

This course will cover the fundamental principles of modern organic chemistry. Structures of organic molecules and reaction mechanisms will be stressed. In the laboratory, the important kinds of chromatography will be used to complement classical methods of separation and purification. Identification of unknown compounds will be aided by the use of spectroscopy.

DPF 111 — DATA PROCESSING FUNDAMENTALS

3 units

4 hours of lecture a week for 1 term

4 hours of lecture and 2 hours of lab for 1 term

The course is designed to introduce the student to the field of 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. A description of all machinery used in card oriented systems followed by the modern electronic computer systems. A brief study is made of systems analysis, flowcharting, and program design. The student is then taught the elements of programming with machine language and symbolic languages by assembles followed by further lab exercises in high level language.

DPA 211 — DATA PROCESSING

3 units

2 hours of lecture and 2 hours of lab

This course represents a continuation of the programming in DP 111. It will consist of programming in Fortran and in Assembler languages. Extra information will be provided for programming in COBOL and RPG. This time files and discs will be used. The fundamentals of Sequential and Random access and the uses of compilers for batch processing. Instruction to multiprocessing and time sharing.

DPS 212 — DATA PROCESSING - SYSTEMS ANALYSIS AND DESIGN

3 units

3 hours of lecture per week

The purpose of the course is to familiarize the student with the concept of systems and their design, maintenance and processing. System Investigations. Clerical Procedures. Standards and evaluations of the system. The implementation of the new system. Debugging the system and Parellel running are included.

DPB 213 — DATA PROCESSING - COMPUTER USES IN BUSINESS

3 units

3 hours lecture

This course is designed as a practical course to show how computers are acquired and put to use in the business or scientific field. Characteristics of machines and of systems are examined from the standpoint of the evaluation of computers for installation and the methodology needed for this purpose.

ECE 151 —CHILD GROWTH AND DEVELOPMENT

1½ units

3 hours of lecture per week for 1 term

The study of changing behavior from infancy through adolescence with emphasis on pre-school education. Physical and mental development of the child. The effect of the physical and social environment upon the child. Cultural differences impinging upon development. Observation of behavior patterns at varying stages during childhood. Problem areas and the need for guidance by qualified teachers.

ECE 152 — PERSONALITY DEVELOPMENT

1½ units
3 hours of lecture per week for 1 term

A study of personality as the central construct of the child's psychological composition. Areas of sensitivity. The problems arising from the transition of family centred to peer centred activities. Accent upon strengthening personality through the creation of opportunities such as role play, show and tell, group study, etc. so that each child can learn to become a contributing member of a group of equals.

ECE 153 — PSYCHOLOGY OF LEARNING

1½ units
3 hours of lecture per week for 1 term

A study of the learning process as the central activity in which the learner is engaged. The application of the basic principles by which learning can be augmented. Theories of learning—Thorndike, Guthrie, Hall, Gesla Crest Theory, Lervin, Tolman and others. Motivation. Applied aspects of learning. Modification of perception through activity, association, contrast, repetition. Effect of fatigue.

ECE 154 — PHILOSOPHY OF EDUCATION

1½ units
3 hours of lecture per week for 1 term

This course is designed to trace the major educational developments through history and to highlight the basic philosophies underlying these developments. The philosophies of Rousseau, Herbart, Pestolozzi, Montessori, Bruner and others will be studied. The relevance of these philosophies on present day pre-school education.

ECE 160 — ARTS AND CRAFTS FOR PRE-SCHOOL CHILDREN

1½ units
3 hours of lecture per week for 1 term

Introduction to the use of various materials used in painting, moulding, building. Use of education toys and puzzles. Random and directed activity. Individual and co-operative adventures in art.

ECE 161 — LANGUAGE AND LITERATURE OF PRE-SCHOOL CHILDREN

1½ units
3 hours of lecture per week for 1 term

A survey of pre-school children's literature. Emphasis on correct speech and language usage. Speech defects and the use of correction through films, slides, visual aids. Story telling. Reciting rhymes. Children participation in relating their experiences.

ECE 162 — MUSIC AND RHYTHMS FOR PRE-SCHOOL CHILDREN

1½ units
3 hours of lecture per week for 1 term

The use of song and music in the pre-school educational program. English and French songs. Action songs, rounds rhythm bands. Making of rhythm instruments.

ECE 163 — NUMBER FACTS

1½ units
3 hours of lecture per week for 1 term

Create an awareness of the use of numbers. Counting: counting songs, counting poems, counting games. Concept of more, less and equal. Writing numerals up to 10.

ECE 164 — PLAY AND PLAY TECHNIQUES
1½ units
3 hours of lecture per week for 1 term

Children's games and sports. Organization of activities, increasing with complexity as children grow older. Emphasis involvement of the child as a contributing unit of the group. Co-operative and competitive activities. The basic elements of leadership.

ECE 165 — SOCIALS AND SCIENCE FOR PRE-SCHOOL CHILDREN
1½ units
3 hours of lecture per week for 1 term

Creating an awareness in the child of his community and the environment in which he lives. The interdependence of man on other people. Visits by policeman, fireman, doctor or public health nurse and others. Field trips.

ECE 190 — PRACTICUM
1½ units
3 hours of lecture per week for 1 term

Observation and supervised instruction in nursery schools and day-care centres. The supervision of pre-school children on playgrounds and in recreational centres. Practical experience will be gained at various centres for one-half-day periods a week.

Discussions of what transpired will be conducted after each day of practice teaching.

ENG 250 — REPORT WRITING

As applied to the Early Childhood Education Program.

ECE 251 — FAMILY LIFE
1½ units
3 hours of lecture per week for 1 term

The family as the prime social group in the life of the student. A study of the roles and role-expectation of various members of the family. Cultural differences of families within the region. Effect of differences in social class and status on pre-school children. Which areas of education are the prerogatives of the family; which are the responsibilities delegated to the school?

ECE 252 —GROUP DYNAMICS
1½ units
3 hours of lecture per week for 1 term

A study of the interaction of members constituting a group. The structure of the group. Pecking order. Individual interest versus the interest of the group. Group discipline tolerance and conformity.

ECE 253 — PARENT-TEACHER RELATIONSHIP
1½ units
3 hours of lecture per week for 1 term

A study of the relationship between the home and the school. Conducting a meaningful interview with parents. Reporting progress of the student to the parent. Closer co-operation between parents and teacher. Areas of direct parental involvement. Parent-teacher meetings.

ECE 260 — TEACHING METHODS
1½ units
3 hours of lecture per week for 1 term

The preparation and methods used in presenting it to pre-school children. Programmed Instruction Methods used in accenting the maximum involvement of all students. Meaningful demonstrations and displays and their uses in augmenting the learning process. Techniques in questioning, acceptance and reinforcement of student responses. Individual instruction in contrast to teaching groups of students.

ECE 270 — GOVERNMENT AND LAW

1½ units

3 hours of lecture per week for 1 term

Historical overview of Educational legislation since 1867 to the present. Statutory and financial commitment by the Federal and Provincial governments. The involvement of various governmental and civic agencies in early childhood education. Recent developments as this form of education is entering a period of transition.

ECE 280 — PROGRAM ORGANIZATION

1½ units

3 hours of lecture per week for 1 term

A thorough assessment of the parameters of educational offerings that are to be served by the school or a specific program within that school. This includes consideration of the number of students and consequently the needs for facilities, the integration of curricular offerings during that part of the week, month and year when the program is to be offered and the acquisition of qualified personnel. There will also be a delineation of the program in order to articulate properly with previous or subsequent programs of early childhood or elementary education.

ECE 281 — EVALUATION

1½ units

3 hours of lecture per week for 1 term

A study of the Educational Objectives of various types of evaluation. The use of various measuring devices. Validity and Reliability. The use of scores and norms. Formal versus informal testing. Readiness, aptitude and achievement tests. Diagnostic procedures. Abuses of testing.

ECE 282 — RESEARCH METHODS

1½ units

3 hours of lecture per week for 1 term

A survey of research in early childhood education. Sociological and statistical methods of research at this level. Delineation of a topic. Each student will be expected to carry out a suitable research topic and report on his findings.

ECE 290 — PRACTICUM

1½ units

2 half days per week for 1 term

Observation and practice teaching under supervision in the Kindergarten setting. Taking full responsibility for the entire program. Elements of supervision of teaching assistants.

ECN 111 — ECONOMICS

3 units

3 hours per week for 2 terms

This course is designed to acquaint the student with the fundamentals of economics and to teach him to understand and appreciate the operation of economic principles with special reference to the Canadian economy.

ECN 211 — ECONOMICS

3 units

3 hours per week for 2 terms

Pre-requisite: ECN 111

An intermediate course of macroeconomic theory. The economic variables of consumption investment, government and foreign trade are discussed as well as money and banking, monetary and fiscal policies.

ENG 111 — ENGLISH
3 units
4 hours per week for 2 terms

A study of literature of the 20th Century. Study of principles of composition and the writing of exercises and themes.

ENG 150 — ENGLISH
1½ units
3 hours of lecture per week for 1 term

A course designed to involve students with various aspects of communications on both theoretical and practical levels. Considerable stress will be placed on the use of logic and the skilful use of good clear English. Further emphasis will also be placed on communications theory and the effectiveness of modern media.

ENG 202 — CREATIVE WRITING
3 units
3 hours per week for 2 terms

Workshop course designed for students with a special interest in original creative expression. Students will be expected to submit their own written work (poems, short stories, or plays) for class discussion and comment. The basic aim is to develop the beginning writers' skills and stimulate a general concern for the elements of good writing.

ENG 211 — A SURVEY OF ENGLISH LITERATURE
3 units
3 hours per week for 2 terms

There will be a reading list of works by various authors, some for class study, other for students' individual study. It is hoped through class discussion and essay assignments that students will learn to value a critical approach to reading literature and to write about it.

ENG 212 — CANADIAN LITERATURE
3 units
3 hours of lecture and 1 hour of workshop per week for 2 terms

This course will survey the development of a national literature in English-speaking Canada from its beginning to the present. An attempt will be made to intergrate a study of major national issues with a critical evaluation of specific literary works. A brief study of French-Canadian literature in translation will be included. Special concentration however, will be focused on the regional literature of B.C.

ENG 250 — REPORT WRITING
3 units
3 hours of lecture per week for 2 terms
Pre-requisite: English 111 or 150

This course is intended to develop the student's report writing skills. Concern will be given to developing an awareness of the many report writing forms, with emphasis on the practical application of report writing to the students' field of study (whether it be Business and Commerce, Early Childhood Education, etc.)

FSC 111 — FOREST SCIENCE
3 units
3 hours of lecture

The Forest science course will include studies in botany, commercial timber identification, site, soils, physiology of trees, pathology and entomology. The purpose of this course is to develop an understanding of tree and forest characteristic.

FSM 160 — FOREST MEASUREMENTS

3 units

3 hours of lecture and 3 hours of lab

The course in Forest Measurements will develop a familiarization with instruments required by the forester and skill in obtaining useful information from the forest. Sampling methods and volume calculations will be studied in detail. Other topics will include the use of statistics in controlling sampling error, draughting, graphing forest variables, scaling and the basics of photogrametry.

FRN 110 — INTRODUCTION TO COLLEGE FRENCH

3 units

3 hours of lecture and 2 hours of lab per week for 2 terms

Pre-requisite: French 11

Review of verbs and simple grammatical construction in a context of idiomatic French, using an active audiolingual method. Further study of more complex structures of the French language in the same context.

FRN 111 — SYSTEMATIC REVIEW OF GRAMMAR AND VOCABULARY

3 units

3 hours of lecture and 2 hours of lab per week for 2 terms

Pre-requisite: French 12

Systematic review of grammar and vocabulary using the language laboratory. Conversation through discussion groups and oral reports given in class. Elementary composition based on written appreciations of literary selections.

FRN 211 — INTERMEDIATE FRENCH

3 units

4 hours per week for 2 terms

Extensive conversation and dissertation around a chronological survey of French literature from La Chanson de Roland to the present. Special emphasis will be placed on the 17th, 18th and 19th centuries.

FRN 212 — MODERN FRENCH LITERATURE

3 units

4 hours per week for 2 terms

An intensive study of selected works in the novel and the theatre in the 20th century. Conversation encouraged through discussion groups. The life and literary production of each author will be studied before a detailed analysis of the structure and content of each representative selection.

GOG 111 — INTRODUCTION TO GEOGRAPHY

3 units

2 hours of lecture and 2 hours of tutorial per week for 2 terms

The course will serve as an introduction to the structure, methods and concepts of modern Geography. The development, scope and purpose of Geography will be examined, particular emphasis being laid upon the interrelationships existing between the various sub-disciplines—Cultural, Economic, Physical, and Regional Geography.

This course is a pre-requisite for all succeeding Geography courses. Those taking the course will be required to attend weekly lab sessions during which the scope, purpose, and methods of Cartography will be examined.

GOG 141 — NORTH AMERICA

3 units

2 hours of lecture and 2 hours of tutorials per week for 2 terms

The course is designed to stimulate an understanding of the development of Canada and the United States from a geographical standpoint. Special references will be made to the development of regional identities and contemporary problems within the two countries.

GOG 211 — PHYSICAL GEOGRAPHY

3 units

3 hours per week for 2 terms

The course is designed to introduce the major concepts in the sub-disciplines of Meteorology and Climatology, Biogeography (vegetation and soils), and Geomorphology (land forms). Analysis will be made of their processes, distributions and interrelationships.

GOG 221 — ECONOMIC GEOGRAPHY

3 units

3 hours per week for 2 terms

Pre-requisites GOG 111 or permission of the Department

An analysis of the spatial distribution of economic activity, reference being made to the geographic forces affecting man's many economic activities, their interrelationships and characteristics. The primary, secondary, and tertiary systems will be analized in view of traditional and more recent theories.

GOG 241 — CULTURAL GEOGRAPHY

3 units

3 hours per week

Pre-requisite: GOG 111, or permission of the Department

This course will continue and expand the concepts initiated in the latter half of Geography 111. The purpose of the course is to investigate 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 space.

GOL 111 — INTRODUCTION TO GEOGRAPHY

3 units

3 hours of lecture and 2 hours of tutorials per week for 2 terms

The course will serve as an introduction to the structure, methods, and concepts of modern Geography. The development, scope and purpose of Geography will be examined, particular emphasis being laid upon the interrelationships existing between the various sub-disciplines—Cultural, Economic, Physical and Regional Geography.

This course is a pre-requisite for all succeeding Geography courses.

GER 110 — INTRODUCTORY GERMAN

3 units

5 hours per weeek for 2 terms

This introductory German course is designed to acquaint the student with the basics of German grammar, and to give practice, from the very beginning, in the practical speaking, reading, and writing aspects of the language.

GER 111 — GERMAN

3 units

3 hours of lecture and 2 hours of language lab. per week for 2 terms

These points of grammar will be utilized and practised in translation exercises, and also free composition.

Parallel to the grammar review, there will be an introduction to modern German literature and comparative style analysis, through the medium of assigned reading projects. Students will be exposed to works by such modern writers as Borchert, Brecht, Kafka, Hesse, Meyrink, Zweig, Kashchnitz, Andres, Heym, and Risse. An important contemporary drama, Durrenmatt's *Der Besuch der Alten Dame,* will serve as the major work, within the context of which can be examined stylistic and thematic trends of the day.

GER 211 — GERMAN

3 units

3 hours of lecture per week for 2 terms

This course will represent a follow-up to German 111, and will give students an opportunity to review and put into practice German grammar through translation of continuous prose passages. The literature side of the course will consist of the reading of seven works, prose and drama, varying in style from the traditional to the contemporary.

Texts: Russon, L. J. *Complete German Course for First Examinations* (review grammar)
Frisch, Max. *Andorra*
Kafka, Franz. *Die Verwandlung*
Keller, Gottfried. *Romeo and Julia auf dem Dorfe*
Hesse, Hermann. *Siddhartha*
Hebbel, Friedrich. *Agnes Bernauer*
Zuckmayer, Carl. *Der Hauptmann von Kopenick*
Borchert, Wolfgang. *Draussen vor der Tur*

HST 111 — TWENTIETH CENTURY WORLD HISTORY

3 units

3 hours per week for 2 terms

A study of the historical developments of this century that have contributed to the formation of the basic issues underlying modern international relationships.

HST 112 — THE HISTORY OF CANADA

3 units

3 hours of lecture per week for 2 terms

A survey of the economic development of Canada from the time of exploration to the present. The political developments leading to confederation. The Dominion of Canada from 1867 to the present.

HST 211 — MODERN EUROPEAN THOUGHT

3 units

3 hours of lecture per week for 2 terms

The political and economic development of the major European countries from 1870-1970. The struggle for power, wars and the problems of political and economic regeneration. The formation of a new Europe and its influence on Canada and the rest of the world.

HST 212 — HISTORY OF EUROPE FROM 1689-1870

3 units

3 hours of lecture per week for 2 terms

The history of Eastern and Western Europe from the time of the Reformation until 1870. The beginning of Modern Europe.

HST 213 — HISTORY OF THE UNITED STATES

1½ units

3 hours of lecture per week for 1 term

Economic, political and social changes from the time of the French and Indian Wars until World War I.

HST 214 — CANADA AND ITS NEIGHBOURS

1½ units

3 hours of lecture per week for 1 term

The mutual benefit of a symbiotic relationship between Canada and its neighbors. The tendencies towards strategic control of geographic boundaries, the media of communication, education and research, natural resources and the balance of trade.

MAT 111 — OPERATORS 1

3 units

3 hours of lecture and 1 hour of problem session per week for 2 terms

Functions, operators, derivative and anti-derivative operators, theorems of differentiation and anti-differentiation, elementary functions, the integral and fundamental theorem, vector algebra, matrix, algebra, applications to systems of equations, 3-space and operators.

MAT 112 — FUNCTIONS AND ALGORITHMS

3 units

3 hours of lecture and 1 hour of tutorial

The concepts of function and operator, including those of the calculus and their formal representation, properties, and applications, including probability; formal expression in general, and concepts of proof. Formal-sequences with indexing and branching, and applications to matrix-problems.

MAT 116* — PRINCIPLES OF MATHEMATICS I (Linear Algebra and Calculus)

1½ units

3 hours per week, first term

Introduction to the fundamental results concerning determinants, matrices, vectors and system of linear equations, etc. Application to linear programming. An intuitive approach to differential and integral calculus with emphasis on techniques and physical applications.

MAT 117* — PRINCIPLES OF MATHEMATICS II (Combinaterics, Probability and Statistics)

1½ units

3 hours per week, second term

Fundamentals of algoristic computations, modular arithmetics, set theory. Permutation, combinations and advanced counting techniques. Finite probability theory and introduction to statistics with emphasis on their applications.

MAT 120 — GEOMETRIC ASTRONOMY

3 units

3 hours of lecture and 2 hours of lab per week for 2 terms

Geometry of the visual field and telescopy; geometry of the Celestial Sphere and motions as observed from the Earth; Ptolemaic and Keplerian-Copernican Theory; expectations from Lunar observation; computation of positions of celestial objects.

Mat 121 — THEORY OF APPROXIMATION

1½ units

2 hours of lecture per week for 1 term

Advised to be taken simultaneously with Math 111

Numeric neighbourhood, limit point, convergence; applications to limits, continuity, differentiality of functions; applications to measure and integral of functions.

MAT 131 — THEORY OF FIELDS

1½ units

3 hours of lecture per week for 1 term

Rational, real and complex numbers, abstract field laws, polynomials over fields, theory of equations, general concepts of field extention.

(Intended for compatibility with elementary algebra)

* *Intended primarily for students in social and biological science, business and education. Grade* 12 *is a pre-requisite.*

MAT 151 — PRE-CALCULUS MATHEMATICS

1½ units

3 hours per week, first term

Arithmetics, charts, functions and graphs. Exponents and logarithms. Inequalities. Mathematical induction. Geometric progressions and their applications. Basic trigonometry and its functions. Introductory concept of analytic geometry. Numerical techniques of finding areas, volumes, etc.

MAT 211 — OPERATORS 2

3 units

3 hours of lecture and 2 hours of lab per week for 2 terms

Elements of infinite series, partial differentiation, multiple integration, Green's Theorem, orthogonality and Fourier series, linear algebra, differential equations.

MAT 213 — MODERN ALGEBRA

1½ units

3 hours per week, second term

Fundamental concepts of set theory and logic. Mapping, equivalence relations, binary operations. Theory of groups, rings, integral domains and fields. Polynominals over a field. Modules and vector space.

MAT 214 — LINEAR ALGEBRA

1½ units

3 hours of lecture per week for 1 term (fall)

Determinants. Solution of systems of Linear equations. Matrices. Vector spaces and subspaces. Linear mappings and linear operators. Eigenvalues and Eigenvectors. Canonical forms. Bilinear, quadratic and hermitian forms. Inner Product Spaces, Orthogonality and Orthonormality.

MAT 232 — PROBABILITY AND INTRODUCTION TO MATHEMATICAL STATISTICS

1½ units

3 hours of lecture per week for 1 term (spring)

Set theory. Techniques of counting. Introduction to finite probability. Conditional probability and independence. Infinite sample spaces. Random variables and probability distribution. Mathematical expectation, moment generating functions, variance and standard deviation. Binomial, normal and poisson distributions, central limit theorem.

MUS 110 — INTRODUCTORY HISTORICAL SURVEY OF MUSICAL STYLES

3 units

3 hours per week for 2 terms

This will be a terminal non-prerequisite survey course covering the development of musical styles from the medieval period to the present. The subject will be approached from both the aesthetic appreciation and the objective analysis points of view, with the goal being not only the examination of musical techniques, but also a refinement of selective listening habits.

MUS 111 — HISTORY OF MUSIC (from Greece to 1800)

3 units

3 hours per week for 2 terms

Pre-requisite: Grade VI Practical and Grade II Theoretical (Royal Conservatory Standards), or equivalent

This course will serve as the first half of a two-year historical survey of music for serious and qualified students. A familiarity with musical concepts and terms is necessary, for no time can be devoted to an exposition of the elementary fundamentals of music. Study of changing musical philosophy, styles, and techniques will be conducted through recordings, readings and examination of scores.

MUS 112 — MATERIALS OF MUSICAL COMPOSITION

3 units

3 hours per week for 2 terms

Pre-requisite: Grade VI Piano and Grade II Theory (Royal Conservatory Standard) or equivalent

This first-year college music theory course will focus mainly upon the harmonic and contrapuntal practices of the eighteenth century. Some time will be devoted to tracing the developments of these elements through the chromaticism of the nineteenth century to the atonality of the twentieth. Nevertheless a solid grounding in the ways of traditional Baroque and classical harmony and melody will be the goal of this open-ended study.

MUS 150— COLLEGIUM MUSICUM

3 units

3 hours per week for 2 terms

Pre-requisite: Previous instrumental (or vocal) study to a degree that satisfies the instructor.

The Collegium Musicum will provide instrumentalists and occasionally singers with the opportunity to participate for credit in a variety of chamber music groups (string trios, quartets, woodwind quintets, brass choirs). These groups will read various materials written for their particular media, and prepare certain works for performance. Should the occasion arise, a chorus for singers will also be formed.

MUS 211 — HISTORY OF MUSIC (1800 to the Present)

3 units

3 hours per week for 2 terms

Pre-requisite: Music 111

This course will represent a follow-up to Music 111, bringing the study of music history to its culmination on the music of the present day. Study will be conducted as in Music 111, through recordings, readings, and examination of actual scores. The course will begin with Beethoven (from the time of the "Eroica").

MUS 215 — ORCHESTRATION AND CHORAL ARRANGING

3 units

3 hours per week for 2 terms

Pre-requisite: Music 112

This course will serve as an introduction to the changing techniques of orchestration over two hundred years. At the same time it will provide practice in actual instrumental scoring, beginning with small ensembles and eventually full orchestra. The student will be introduced to the various families of instruments, learn their idioms and ranges and capabilities through the media of scores and recordings. Applying this knowledge, he will practice transcription of piano music for strings, wood-wind, and brass ensembles, and study their treatment and various combination in the above mentioned orchestral scores.

A certain part of the time will be devoted to the study of choral setting of vocal music. Study scores required for this aspect of the course will be announced by the instructor.

MUS 212 — MATERIALS OF MUSIC

3 units

3 hours per week for 2 terms

Pre-requisite: Music 112

This course will represent a follow-up to Materials of Music 112. After a short review of the harmonic and contrapuntal vocabulary of the eighteenth

century, study will be made through recordings and score analysis of the harmonic discoveries of the Romantic and post-Romantic eras, emphasizing such innovators as Liszt, Wagner, Mussorgsky, Debussy and Scriabin. The course will further deal with the eventual break-down of the tonal system in the post-Wagnerian musical scene and the birth of the Viennese atonal expressionist school.

PSC 111 — POLITICAL SCIENCE

3 units

3 hours of lecture for 2 terms

The growth and development of political institutions of industrial societies.

The emergence of political thought from the time of Plato until the present. An analysis of the influential political ideologies on the various sectors of society. The study of the development and growth of political institutions in industrial societies. A general analysis of the relative powers of these institutions within various political systems.

PYS 111 — PHYSICS

3 units

3 hours of lecture and 3 hours of lab or tutorials per week for 2 terms

Pre-requisite: *Physics* 12, *Math* 12 *or equivalent*

Math 111 must precede or be taken concurrently. Students lacking these pre-requisites will be required to take an additional 2 hour tutorial per week. *Note*: Students with Math 12 and Physics, who are contemplating 2nd year level physics courses are advised to register in Physics 121.

A course emphasizing the basic physical concepts and some contemporary problems in physics.

Equilibrium of a rigid body; displacement; velocity, acceleration, gravitation and Newton's laws; frames of reference and relativity; energy and momentum; work and power, uniform circular motion and Kepler's laws; wave motion; sound; theories of temperature, heat and heat transfer; static and current electricity; optics, theories of light, interference and diffraction, introduction to modern physics.

A variety of these subjects will be studied in the laboratory.

PYS 121 — PHYSICS

3 units

3 hours of lecture and 3 hours of lab or tutorials per week for 2 terms

Pre-requisites: *Physics* 12, *Math* 12.

Math 111 must preceed or be taken concurrently

A course similar to Physics 111 with a more vigorous treatment of the basic physical concepts utilizing calculus. A more detailed treatment of labs will be expected.

PYS 150 — PHYSICS

1½ units

3 hours lecture and 3 hours lab per week for 1 term

A general physics course for students registered in technology programs. The course content will be oriented to the technologies and will concentrate on practical rather than theoretical aspects of physics.

PYS 211 — HEAT, ELECTRICITY AND TOPICS IN MODERN PHYSICS

3 units

3 hours of lecture and 1 hour of seminar per week for 2 terms

Pre-requisites: *Physics* 111, *Math* 111 *or equivalents*

FIRST TERM — ELECTRICITY

E.M.F., Kirchoff's laws, resistors, simple circuits, capacitors, inductances, A. C. circuits - CR, LR, LCR. Ist and 2nd order differential equations. Resonans, transfer function, transients, complex number representation, power transfer, impedance matching.

SECOND TERM — HEAT AND TOPICS IN MODERN PHYSICS

Temperature, heat transfer, work, laws of thermodynamics, entropy; radioactivity, half lives and age determinations, topics of current interest.

PYS 212 — ELECTRICITY, HEAT AND MODERN PHYSICS LABORATORY

1 unit

3 hours of lab per week for 2 terms

A series of experiments designed to demonstrate electrical, heat and modern physics concepts. Experiments include the definition of the ampere, use and design of meter, L.C.R. circuits, temperature measurement and the determination of a radioactive half-life. One experiment will be designed by the student.

PYS 213 — MECHANICS AND SPECIAL RELATIVITY

2 units

2 hours of lecture and 1 hour tutorial per week for 2 terms

Pre-requisite: *Physics* 111 *and Math* 111

FIRST TERM

Vectors and vector operations; Galilean invariances; classical mechanics; momentum and force; work and energy; dynamics of rigid bodies; harmonic oscillator; central forces.

SECOND TERM

Relative motion, the ether, clock experiments. Michelson-Morley experiment, Lorentz transformations and non-simultaneity; Einstein's postulates and Minkowski diagrams; Introduction to problems in relativistic dynamics.

PSY 111 — INTRODUCTORY PSYCHOLOGY

3 units

3 hours per week for 2 terms

This will be a general survey course providing an introduction to the study of psychology as a theoretical and applied science. This course will serve the needs of a one year terminal course as well as providing adequate preparation for further advanced studies in psychology. Topics will include elementary experimental design, sensation and perception, learning and motivation, bioligical bases of behaviour, personality, tests and measurements, developmental and social psychology, and behavioural adjustment. There will be a regular series of in-class demonstrations and experiments to enable the student to acquaint himself with the methodologies of behavioural research.

PSY 211 — ADVANCED GENERAL PSYCHOLOGY

3 units

2 hours of lecture and one 2-hour lab per week for 2 terms

Pre-requisite: PSY 111, MATH 117 (Math 117 recommended to be taken concurrently.)

This course will emphasize the empirical approaches to the study of psychology. A major emphasis will be placed on statistical research in such theoretical and applied areas of psychology as sensation, perception, learning and motivation.

PSY 221 — DYNAMICS OF BEHAVIOUR

3 units

3 hours of lecture per week

An examination of psychological principles of behaviour to facilitate an understanding of how man acts and reacts to the forces in his environment. There will be an emphasis on behaviour modification and adjustment.

SOC 111 — INTRODUCTION TO SOCIAL INSTITUTION

3 units

3 hours of lecture per week for 2 terms

Major schools of thought concerned with the development of sociology and social anthropology. The concepts of social structure, role and institutions of modern industrial societies. The characterists of important social institutions such as: the family, social status, the economy, the political system. Functionality and disfunctionality of social institutions.

THT 111 — AN INTRODUCTION TO THEATRE

3 units

3 hours per week for 2 terms

The main portion of this course will be concerned with a survey of theatre history, from the Greeks to the present time, including a study of representative plays and an introduction to dramatic structure and critical theory.

THT 120 — AN INTRODUCTION TO ACTING

3 units

3 hours of lecture and 2 hours of lab per week for 2 terms

This course will introduce the student to the basic techniques and skills of the actor, with an emphasis on speech and movement. The student will be required to present (in class) two major speeches and one scene in the first term and at least one major project in the second term. The major project will depend on the size and composition of the class. Each student will be judged on individual achievement, regardless of initial experience.

THT 211 — A HISTORY OF MODERN WESTERN THEATRE

3 units

3 hours per week for 2 terms

Pre-requisite: *Theatre* 111 *or permission of instructor*

This course will survey theatrical style, dramatic criticism and playwrighting as it developed from 1700 to the present time. The emphasis will be on the parellel development of realism and anti-realism from the late nineteenth century to the present time. One third of the total class time will be devoted to student seminars. Slides, films and recordings.

THT 220 — ADVANCED ACTING

3 units

Cannot be offered at CNC yet. At most universities this would be a 400 level course. Students who have taken Theatre 120 at CNC or elsewhere are welcome to take part in CNC productions.

THT 240 — A HISTORY OF THE FILM

3 units

2 hours of lecture and 2 hours of lab per week for 2 terms

Pre-requisite: *Theatre* 111

In addition to tracing the development of the film from the earliest scientific experiments to the present time, this course will focus on film technique as a pre-requisite to an understanding of film form.

(Not offered in 1970/71)

THT 250 — THEATRICAL PRODUCTION

3 units

3 hours of lecture and 2 hours lab per week for 2 terms

This course will cover all technical aspects of stage production: costume set design, lighting, stage managing, scenery construction. The course is intended to be basic rather than intensive. Students will play a major part in the technical aspects of CNC productions.

(Not offered in 1970/71)

ZOO 211 — VERTEBRATE ANATOMY

3 units

3 hours of lecture, 3 hours of lab per week for 2 terms

Pre-requisite: *Biology* 111

An inquiry into the comparative anatomy of the vertebrates with emphasis on the principles and adaptations of animal function.

ZOO 212 — INTRODUCTORY ENTOMOLOGY

1½ units

2 hours of lecture and 3 hours of lab per week for 1 term

Pre-requisite: *Biology* 111

A lecture-laboratory course designed to acquaint students with the structure, classification, life cycles and economic significance of insects, spiders, mites and ticks.

ZOO 215 — ELEMENTARY GENETICS

1½ units

2 hours of lecture, 1 hour tutorial and 2 hours of lab per week for 1 term

An introductory course in the science of heredity. Probability, genes, linkage, crossover, sex determination, hormonal influence on gene action, mutations, physiological and population genetics will be discussed.

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