

FROM:

Continuing Education
Lakehead University
Thunder Bay P, Ontario
P7B 5E1

TO:



Summer School '78

GRAPHICS/PHOTOGRAPHY M.S.C.

Lakehead University



Summer School '78



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SUMMER SESSION CALENDAR

MARCH 1978

27 Monday Easter Monday – University Closed

APRIL

14 Friday Final Date for Applications for Spring Session. Desired Courses must be specified by this date. Insufficient registration may cause cancellation of courses.

MAY

1 Monday Spring Session Full-Courses and Half-Courses Commence
4 Thursday Final Date For Registration, Changes and Withdrawal Without Academic Penalty in Spring Session Half-Courses
10 Wednesday Final Date For Registration, Changes and Withdrawal Without Academic Penalty in Spring Session Full-Courses
19 Friday Spring Session Half-Courses Terminate
22 Monday Commonwealth Day – University Closed
23 Tuesday Spring Session Half-Course Examinations – No Classes
24 Wednesday New Spring Session Half-Courses Commence and Full-Courses resume.
27 Saturday Spring Convocation for Conferring Degrees and Diplomas
29 Monday Final Date For Registration, Changes and Withdrawal Without Academic Penalty in New Spring Session Half-Courses

JUNE

9 Friday Final Date for Applications for the Summer Session
13 Tuesday Spring Session Classes Terminate
15 Thursday Spring Session Examinations
16 Friday Spring Session Examinations
23 Friday Final Date for Submission of Spring Session Examination Results

JULY

3 Monday Dominion Day – University Closed
4 Tuesday Summer Session Classes commence – Full-Courses and Half-Courses Begin
7 Friday Final Date for Registration, Changes and Withdrawal Without Academic Penalty in Summer Session Half-Courses
13 Thursday Final Date for Registration, Changes and Withdrawal Without Academic Penalty in Summer Session Full-Courses
24 Monday Summer Session Half-Courses Terminate
25 Tuesday Summer Session Half-Course Examinations – No Classes
26 Wednesday New Summer Session Half-Courses Commence – Full-Courses resume

AUGUST

7 Monday Civic Holiday – University Closed
15 Tuesday Final Date for Submission of Applications to Graduate in the Fall
16 Wednesday Summer Session Classes Terminate
17 Thursday Summer Session Examinations
18 Friday Summer Session Examinations
25 Friday Final Date for Submission of Summer Session Examination Results

SPRING AND SUMMER 1978 TIMETABLE

	Session 1	Session 2	Session 3	Session 4	Session 5
SPRING TERM May 1 - June 16				5:00 p.m. 7:00 p.m.	7:00 p.m. 9:00 p.m.
EXAMINATIONS Thursday, May 23 Thursday, June 15 Friday, June 16				6:00 p.m. 9:00 p.m. 6:00 p.m. 9:00 p.m.	 6:00 p.m. 9:00 p.m.
SUMMER TERM July 4 – August 18	8.30 a.m. 10:30 a.m.	10:30 a.m. 12:30 p.m.	2:00 p.m. 4:00 p.m.	5:00 p.m. 7:00 p.m.	7:00 p.m. 9:00 p.m.
EXAMINATIONS Tuesday, July 25 Thursday, August 17 Friday, August 18	 9:00 a.m. 12:00 p.m. 9:00 a.m. 12:00 p.m.	 9:00 a.m. 12:00 p.m.	 1:00 p.m. 4:00 p.m. 1:00 p.m. 4:00 p.m.	 6:00 p.m. 9:00 p.m.	 6:00 p.m. 9:00 p.m.

Off-Campus examinations will be set by the instructor at a time convenient to himself and the class. Evaluation differs from course to course and the means of evaluation is the prerogative of the instructor and the academic department involved.

GENERAL INFORMATION

Lakehead University is now established as one of the major summer schools in Ontario. Ideally situated at the head of Lake Superior, in the heartland of Northwestern Ontario, it is an impressive campus overlooking the city of Thunder Bay.

The University offers not only exciting academic programs and modern facilities but also a unique opportunity to enjoy a moderate climate and a clean and spacious environment.

Facilities on campus are strikingly beautiful and more than adequate. The Ryan and Main Buildings house a wide variety of classrooms, seminar rooms and lecture theatres along with the Centennial Sciences Complex which represents an investment in excess of \$20 million in buildings and equipment. The University Centre includes lounges, cafeteria, student government offices, a small shopping mall and a 380 seat theatre. Our Library contains nearly 240,000 volumes including bound periodicals and approximately 2,000 volumes of unbound periodicals and has a seating capacity for over 1,000 students. A modern Computer Centre with terminal access for students is available on a 24-hour basis.

The co-educational residence village accommodates more than 640 students. On the athletic side, the C. J. Sanders Complex, which compares in versatility to any in Canada, houses numerous gymnasia and specialized activity rooms, an Olympic size swimming pool, saunas and dressing facilities — all accessible to summer students.

COURSE CHANGES AND WITHDRAWALS

Final date for course changes and/or withdrawal without complete financial penalty is:

May 4, 1978 — Spring Session

July 7, 1978 — Summer Session

Students withdrawing in the first four days of classes (as above) will receive a refund of tuition fees less a \$10.00 administrative fee per course. Withdrawals and/or course changes must be done on Lakehead University withdrawal or change forms. Stop payment of cheques does not constitute withdrawal. The activity fee is non-refundable. No refund will be allowed to students withdrawing after the first four days of classes. All students sign promissory notes and it is their responsibility to familiarize themselves with the financial and academic regulations of the University. Please note that financial and academic deadline dates are not the same dates.

ALL CHEQUES should be made payable to LAKEHEAD UNIVERSITY, dated not later than May 1, 1978 for Spring Session and July 7, 1978 for Summer Session.

Off-Campus students should direct any inquiries to Dr. Keith Wood, Director of Continuing Education, Lakehead University, Oliver Road, Thunder Bay, Ontario, P7B 5E1 or by calling 345-2121 extension 210.

TIME AND CLASS LOCATION

A timetable listing all courses including time and location is posted on the Time Table Bulletin Board in the Agora, University Center Building.

COURSE LOAD

A student may take a maximum of three full courses during the Spring and Summer Terms; in exceptional circumstances the Dean of the Faculty, in consultation with the Departmental Chairman, may permit a student to take more than three full course in the Spring and Summer Terms.

CANCELLATION OF COURSES

The University reserves the right to cancel any course if no instructor is available or the number of registrants is too low. Enrollment may be limited in a course where more students apply than can be accommodated; in that case, places will be filled on a first come first served basis.

TEXTS AND ADVANCE READING

Registrants are urged to do advance reading in preparation for their course. Reading lists will be supplied through the individual Departments as they become available. The University Bookstore will stock the required texts which may be procured during the regular bookstore hours: 9:00 a.m. - 5:00 p.m. Monday through Friday or by ordering C.O.D.

LIBRARY HOURS

The Library will be open from Monday through Thursday from 8:00 a.m. to 11:00 p.m. and from 8:30 a.m. to 6:00 p.m. on Fridays during both terms of the Summer Session. In addition, commencing the second Saturday of each term the Library will also be open for study from 9:00 a.m. to 5:00 p.m. and on Sundays from 2:00 p.m. to 10:00 p.m. During the period between sessions, the Library will be open weekdays from 8:30 a.m. to 5:00 p.m. (Please note that these hours are subject to change.)

THE SUMMER SESSION SOCIETY

Every student registered for Spring and Summer classes held at Lakehead University becomes a member of the Summer Session Society which forms the recognized student government, May 1 to August 31 inclusive. The Summer Session Society fee of \$5.00 finances the student government and society projects such as summer concerts and guest speakers and helps to subsidize such student activities as dances, beer gardens and movies.

Every member may participate in all activities of the Summer Session Society and in all elections of the Summer Session Society Council. The Summer Session Society Council is elected on the first day of classes in each term, Spring and Summer, and is composed of one representative from each class of the summer session. Its meetings are held in the Council Chamber (UC-2014) and the agenda is posted on the bulletin board located outside the student Administrative Offices.

The Executive of the Summer Session Society consists of the Past President, President, 1st. Vice-President, 2nd. Vice-President, Treasurer and the Secretary.

The Executive of the Summer Session Society chooses two members of the Society to sit on the Senate Continuing Studies Committee.

PARKING

All parking lots, with the exception of one at the C. J. Sanders Athletic Building and the lot in front of the Faculty of Education building, require a parking sticker. Parking fees are \$7.00 for tickets valid before July 1; \$3.50 for ticket purchases thereafter. A parking sticker is good until August 31. Students who have a sticker from the winter of 1977/78 do not require an additional sticker, and stickers purchased in the Spring Term are good for the Summer Term also.

Stickers should be purchased from the Accounts Office prior to or on the first day of classes.

HEALTH SERVICES

The University maintains a Health Service on campus with a Registered Nurse in attendance between 9:00 a.m. and 5:00 p.m., Monday through Friday.

These hours will be maintained throughout the summer months. The University Physician will be available for consultation. Students may arrange for this service by contacting the Health Unit. The University uses the neighbouring hospitals to provide emergency treatment for acute illness or accidents which occur on campus during the term. A student is strongly advised to provide himself with some form of medical and hospital insurance. For both hospital and medical expenses, it is necessary to have O.H.I.P. coverage. Those who are not covered can obtain O.H.I.P. application forms from the local health insurance office at the Ontario Government Building, 435 South James Street, Thunder Bay, Ontario.

BANKING FACILITIES

A branch of the Canadian Imperial Bank of Commerce is located at the University in the Shopping Mall on campus and is open 9:30 a.m. to 3:00 p.m. Monday through Thursday and 9:30 a.m. to 5:00 p.m. Friday.

FEES
(EXCLUDING FOREIGN STUDENT FEES)

	TUITION	ACTIVITY	TOTAL
Degree courses offered by Faculties of Arts, Science, Education, and Schools of Business, Nursing, Physical and Health Education, Forestry and Graduate Diploma in Business:			
Full Course	\$155.00	\$7.00	\$162.00
Half Course	80.00	7.00	87.00
Diploma course offered by Schools of Business, Library Technology, Forestry and Engineering:			
Full Course	100.00	7.00	107.00
Half Course	50.00	7.00	57.00
Degree courses offered by the School of Engineering:			
Full Course	160.00	7.00	167.00
Half Course	80.00	7.00	87.00
Off Campus Courses – Degree:			
Full Course	155.00	n/a	155.00
Half Course	80.00	n/a	80.00
Off Campus Courses – Diploma:			
Full Course	100.00	n/a	100.00
Half Course	50.00	n/a	50.00
Audit:			
Full Course	60.00	n/a	60.00
Half Course	30.00	n/a	30.00
Masters – Arts & Science:			
Full Course	187.50	7.00	194.50
Masters – Education:			
Half Course	115.00	7.00	122.00
Masters Thesis (Maintenance & Registration)	50.00		

A late fee of \$10.00 will be assessed for students registering after:
May 4 – Spring Term
July 7 – Summer Term

The activity fee is collected for the following:
Summer Session Society \$5.00
Health Fees 2.00
\$7.00

ALL FEES MUST BE PAID IN FULL ON OR BEFORE REGISTRATION

BURSARIES FOR FRENCH IMMERSION COURSES

Lakehead University has run successful “immersion” courses every summer since 1970.

Each course offers a unique opportunity to acquire fluency in language and experience in culture.

Bursaries are available to students who enroll in the special immersion course of French as a second language at beginners, intermediate and advanced levels. Under the auspices of the Office of the Secretary of State, students are financed to the extent of each, covering room and board (at the University Residence), tuition fees, excursions and book allowance.

Bursary recipients should meet the following requirements:

- be at least 16 years old by December 31;
- be a Canadian citizen or have “landed immigrant” status;

- not have been employed full-time during the previous academic year;
- have the adequate background for the course in which they intend to enroll;
- be genuinely interested in language studies.

Information brochures may be obtained from all Canada Manpower Offices and from the Secretary, Department of Languages, Lakehead University, Thunder Bay, Ontario P7B 5E1.

Students not meeting all of the above requirements are invited to enroll in any of the immersion courses as fee-paying students.

Descriptions of the courses offered in the Immersion Program are contained elsewhere in this booklet.

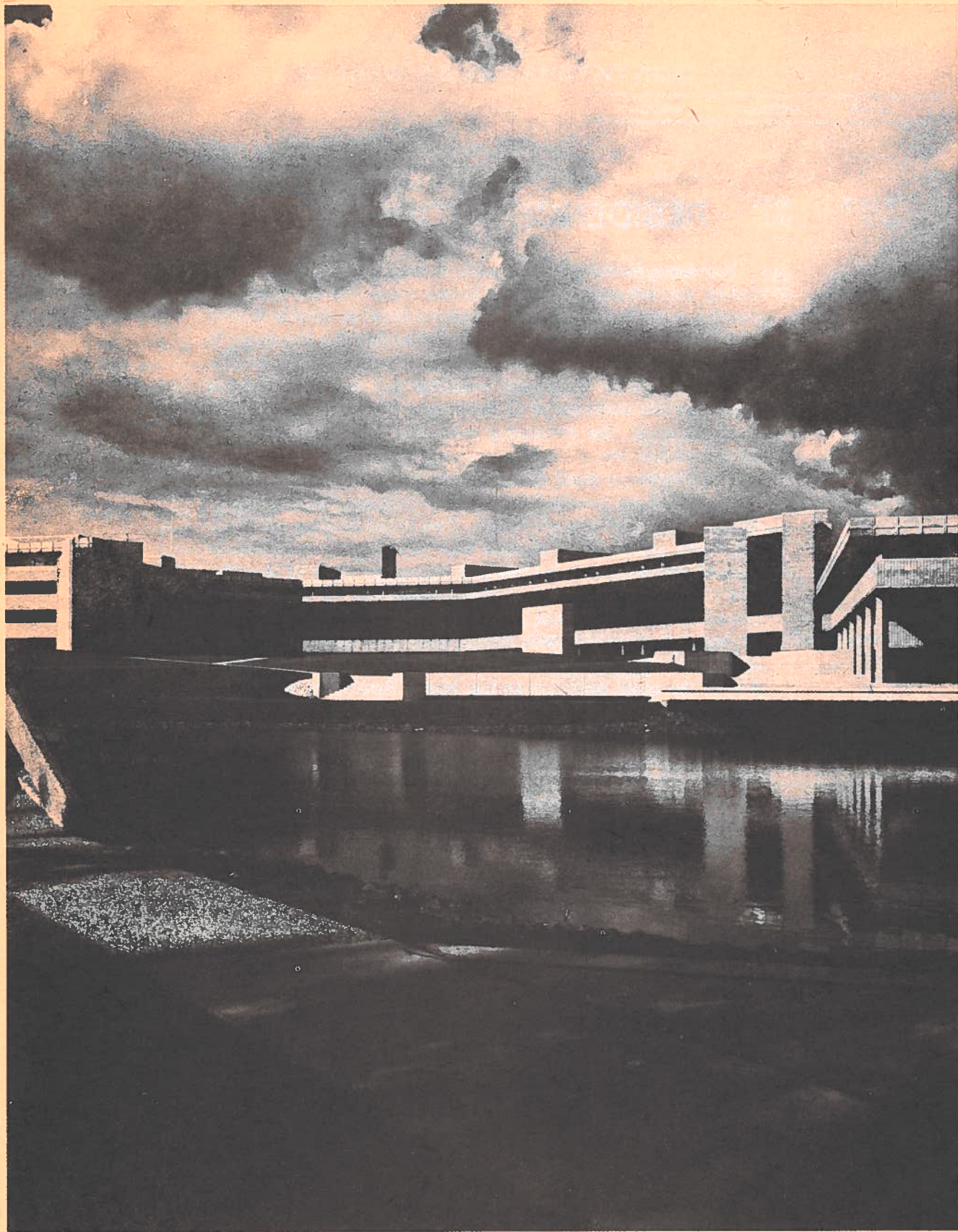
RESIDENCE INFORMATION

Residence facilities are set aside to accommodate 641 people during the summer months. Certain areas are set aside for married couples who can be accommodated in double rooms, and other areas are for either men or women. The Residence is situated on the banks of the McIntyre River within easy walking distance of all University buildings and students living in Residence can make use of all facilities: The University theatre, shopping mall, the swimming pool, the lake, tennis courts, squash courts, etc.

The Residence itself is completely self-contained. Kitchenette facilities are provided for weekend cooking. Meals are served from Monday through Friday. Two social centres are available with comfortable lounges and recreational facilities. In each of the two social centres and recreation room of the Women’s Residence there are vending machines for soft drinks, chocolate bars, cigarettes, etc. Coloured television is provided in two of the large common rooms. Mail, keys and dry cleaning services are provided by the Porter’s Office on the left hand side of the main entrance to the Men’s Residence. The office is open regularly from 8:30 a.m. to 4:30 p.m. as well as during some evening hours.

The life style within Residence during the Summer is informal and relaxed. “The only request is that the right of everyone to rest and study be respected.”

Although a meal plan is available for the regular Summer Session the Residence offers accommodation on a daily or weekly basis during the Spring Term and throughout the Summer without any compulsory meal plan.



APPLICATION FOR RESIDENCE

LAKEHEAD UNIVERSITY INTERSESSION AND SUMMER SCHOOL 1978

Mail All Applications To:
Director of Residence
Lakehead University

Name: _____
 mr. mrs. miss christian names surname

Address: _____

Born: _____
 year month day

ROOM REQUIREMENTS

- ☐ Single Room Without Meals \$34.00 week
☐ Double Room Without Meals \$25.00 week

All room rents must be paid in advance — either weekly or if you prefer for the complete session. To reserve a room you must send one week's rent with this application.

OPTIONAL MEAL PLANS

Plan A. Beaver Foods is offering a five day meal plan from Tuesday, July 4th to Friday, August 11th. The meal plan will not include unlimited servings and will be offered in the Main Cafeteria. This plan may be purchased in the Residence Office for \$125.00.

Plan B Special meal tickets will be available from Beaver Foods in units of \$11.00 each, which can be purchased for \$10.00 each.

I AGREE TO THE PROVISIONS IN THE CALENDAR WITH REFERENCE TO LAKEHEAD UNIVERSITY RESIDENCE AND TO BE BOUND BY ALL THE CONDITIONS, PROVISOS AND REGULATIONS PERTAINING THERETO.

signature of applicant

date

Spring Course Offerings



FACULTY OF ARTS

ANTHROPOLOGY

ANTHROPOLOGY 3114/15 — *Human Bone Anatomy*
Prerequisite: Anthropology 1012 or permission of the instructor

Traditionally, physical anthropologists have emphasized the study of bones, since bone is the only tissue that represents the remains of early populations of Homo Sapiens and fossil man. This course is designed to give students a comprehensive study of human osteology and functional anatomy. Topics include, bone histology and chemistry, gross anatomy of the skeleton, growth and development, and plasticity.

Instructor: Mr. J. E. Molto

ANTHROPOLOGY 3116/17 — *Human Skeletal Biology*
Prerequisite: Anthropology 1012 or permission of the instructor

This course examines the systematic osteological analysis of archaeologically derived skeletal populations. Topics include, comparative discrete and continuous morphology, aging and sexing of skeletal material, palaeodemography, palaeopathology and biostatistics. Of special interest will be the use of skeletal data to study problems of microevolution of Indian and Eskimo populations in Canada, and the interrelationship skeletal biologists have with archaeologists and ethnohistorians in the study of prehistory and ethnohistorians in the study of prehistory.

Instructor: Mr. J. E. Molto

ECONOMICS

ECONOMICS 1100 — *Principles of Economics*

Definition of the economic problem. The production-possibility frontier. Diminishing returns. Theory of the firm. Theory of competitive supply. Theory of demand. Interactions between supply and demand: the equilibrium price. Monopoly and other imperfectly competitive market forms. Markets for land, labour, and capital. Income distribution. National income determination and the causes of unemployment and inflation. Economic fluctuations and growth. International trade. Flexible and fixed foreign exchange rates. Canadian economic problems and policies.

Instructor: Dr. G. Kondor
Dr. K. J. Charles

ECONOMICS 2002/03 — *Microeconomics*

An examination of the price system showing how resources are allocated among economic agents. Consumption and production theory are developed and analysed. The effect of alternative market structures — perfect competition, oligopoly, monopoly — on consumer and producer welfare and behaviour is assessed.

Instructor: Mr. N. C. Bonsor
Mr. F. J. Anderson

ECONOMICS 3210/11 — *Economic Development I*

Prerequisite: Economics 2202/03

Classical, Marxian, Schumpeterian, Keynesian, and post-Keynesian theories of economic development including theories which stress the role of non-economic factors such as those of Max Weber, W. W. Rostow, and Everett Hagen.

Instructor: Dr. K. J. Charles

ECONOMICS 3218/19 — *Banking & Financial Institutions*
Prerequisite: Economics 3216/17

The role of money and credit. The level and structure of interest rates. The theory of financial markets. The stock market. Commercial banks as financial firms. Near-banks and other financial intermediaries: Trust and Mortgage Loan companies, Insurance and Consumer Loan Companies.

Instructor: Mr. J. Vermeeren

ENGLISH

ENGLISH 1100 — *Major British Writers*

Studies in selected masterpieces of the great English authors from Chaucer to the present. Selected works of Chaucer, Spenser, Shakespeare, Donne, Milton, Dryden, Swift, Pope, Johnson, Coleridge, Wordsworth, and others will be studied.

Instructor: Dr. J. Gellert

ENGLISH 2600/01 — *American Literature to 1900*

Prerequisite: English 1100 or permission of the department

A survey of major American writers from the Colonial Period to the end of the nineteenth century.

Instructor: Dr. W. Heath, Jr.

FINE ARTS

FINE ARTS 1300* — *Introduction to Photography*

A prerequisite course to all photography courses. It is a practical study of the conventional, basic laboratory techniques used in black and white photography along with practice in visual fundamentals using various camera formats.

Instructor: Mr. B. Spenceley

FINE ARTS 2931 — *Stagecraft*

A practical course in the technical aspects of theatre: lighting, sound and set construction.

Instructor: Mr. J. R. Sallows

FINE ARTS 3101 — *Ceramics III*

Prerequisite: Fine Arts 2100

A continuation of Fine Arts 2101, Ceramics II.

Instructor: T.B.A.

FINE ARTS 3629 — *Fine Arts Studio: Creative Movement and Modern Dance*

An introductory course in expressive body movement to create ideas and moods in contemporary dance. Emphasis will be on body and movement awareness through total conditioning involving stretching, flexibility, strengthening and posture improvement. The course will also cover improvisation and basic choreography using rhythm and movement patterns.

Instructor: Ms. D. Niskanen

GEOGRAPHY

GEOGRAPHY 1100 — *Environments and Peoples*

Geographical approaches to the study of physical environments and human societies, and the interactions of the two. General theories and specific studies are discussed in lecture; techniques of analysis and presentation of data are practiced in laboratory periods.

Instructor: Dr. H. Rasid

HISTORY

HISTORY 1102 — *An Introduction to Historical Studies*
Europe from the fall of Rome to 1648.

Instructor: T.B.A.

* Studio Fee Charged

LANGUAGES

FRENCH 1000 — *Elementary French*

Prerequisite: Grade 11 or equivalent

Introduction to written and spoken French. Exercises in pronunciation, dictation and translation. Study of selected texts. *This course is open to beginners.*

Instructor: Mr. E. Dolphin

FRENCH 3500/01 — *Modern Theatre in France*

Prerequisite, or co-requisite with permission of the department: French 2200/01

New directions in the French theatre seen in the context of the Western theatre as a whole. Cocteau, Giraudoux, Anouilh, Camus, Sartre, Ionesco, Beckett, Genet, de Ghelderode.

Instructor: Dr. H. Seyffert

SPANISH 1000 — *Elementary Spanish*

A beginners' course in the study of the Spanish language and culture. Reading, composition, dictation, grammar. Oral practice.

Instructor: Dr. G. Andrachuk

POLITICAL STUDIES

POLITICAL STUDIES 1200 — *Introduction to Canadian Politics*

An introduction to various political systems through the Canadian example.

Instructor: Professor A. Johnson

POLITICAL STUDIES 3304/05 — *The Politics and Society of Industrialized Nations*

Specific industrialized nations shall be selected for study as cases of political development. The nations chosen for analysis shall normally alternate among Canada, the U.S., Britain, France, Germany and the U.S.S.R.

Instructor: Dr. Ingunn Norderval Means

PSYCHOLOGY

PSYCHOLOGY 2201 — *Industrial Psychology*

Prerequisite: Psychology 1100

A survey of the applications of psychology in industry and commerce, emphasizing scientific methodology and research findings in the areas of personnel psychology, human engineering, organizational theory and consumer behaviour.

Instructor: Dr. P. G. Wesley

PSYCHOLOGY 3001 — *Abnormal Psychology*

Prerequisite: Psychology 1100

Concepts and criteria of abnormality in personality. The organic and functional aspects of the psychoses and psychoneuroses. A critical examination of case histories and current research.

Instructor: T.B.A.

SOCIAL WORK

SOCIAL WELFARE 1100 — *Introduction to Social Welfare*
Examination of purposes, values, and emergence of Social Welfare programs and services; of the methods of Social Work practice, and their relation to Social Science concepts and to philosophical and religious values.

Instructor: Mr. R. Delaney

SOCIAL WORK 4909 — *Changing Role of Women and Social Work Practice*

This course offers an analysis of the changing role of women in contemporary society. Emphasis will be given to the problems that emerge as a result of these changing roles and the implications of these changes for social work practice.

Instructor: Eleanor Eryou

SOCIOLOGY

SOCIOLOGY 2200/01 — *Population and Human Ecology*
Prerequisite: Sociology 1100 or permission of the instructor

Population growth, distribution, composition and density with special emphasis on fertility, mortality, migration, and their effect on society. Spatial and temporal distribution of man and institutional patterns. Analysis of ecological processes; concentration, centralization, congestion, decentralization, success and invasion, and man's position as part of a natural ecosystem.

Instructor: Dr. J. Stafford

SOCIOLOGY 2206/07 — *Canadian Society*

An evolutionary and comparative perspective on the study of "total" societies with special concentration on Canada as a national social order — levels of order, structural components, action subsystems, and functional processes.

Instructor: Mr. A. Sparkes

SOCIOLOGY 3102/03 — *Seminar in Selected Sociological Topics: "The Sociology of Sex Roles"*

Prerequisite: Advanced standing in sociology and permission of the instructor

Sociological consideration of the social construction of dominant role definitions regarding "female" and "male" in North America. The developmental history of "the women's liberation movement" and "male liberation", socialization related to gender, and "sexual scripts" as social institutions with particular attention paid to family orientations, school experiences, and labor force data, are among the topics to be analyzed. Students should be prepared to participate in seminar discussions and be willing to relate their subjective experiences regarding changing female and male role definitions in today's Canadian society.

Instructor: Dr. R. Nelsen

FACULTY OF SCIENCE

MATHEMATICAL SCIENCE

MATHEMATICS 2321 – *Statistics*

Prerequisite: Mathematics 1160
Probability; discrete and continuous probability distributions; sampling distributions; Chi-square, t, and F; test of hypotheses, regression and correlation; analysis of variance.

Instructor: Dr. L. K. Roy

MATHEMATICS 0411 – *Elementary Computing*

Prerequisite: Grade 12 Mathematics or permission of the Department

Computer programming in a high level language such as Fortran, including looping, array manipulations and sub-programs using examples such as numerical root finding and series summation, business report generation, simple simulation problems and simple sorting and searching algorithms. The concepts of syntax and semantics. The concepts of compiling, loading and executing programs. A simple conceptual model of a computer. The concepts of control flow and information flow. The concepts of function, algorithm, functional block, local and global variables, and step-wise refinement. The uses and abuses of flow-charts. Program design, documentation, coding, testing and debugging.

Instructor: Mr. E. A. Green

PHYSICS

FINE ARTS 1300* – *Introduction to Photography*

A prerequisite course to all photography courses. It is a practical study of the conventional, basic laboratory techniques used in black and white photography along with practice in visual fundamentals using various camera formats.

Instructor: B. Spenceley

* Studio Fee Charged

FACULTY OF UNIVERSITY SCHOOLS

BUSINESS ADMINISTRATION

BUSINESS 0134 – *Intermediate Accounting*

Prerequisite: Business 2063

Examines the underlying theory behind the presentation, classification and valuation of specific items appearing on the financial statements. Develop an awareness of why and how an accountant uses the procedures and principles that he has adopted over the last 50 years. Through extensive use of thought provoking American Institute of Certified Public Accountants and Canadian Institute of Chartered Accountants exam questions, it provides an excellent background for further study in accounting.

Instructor: Mr. L. J. Rocco

BUSINESS 0137 – *Labour Relations I*

Labour Relations I is designed to provide the students with an introduction to the field of industrial and labour relations including some practical training in the development and use of modern techniques. It is primarily concerned with the difficulties that arise in the day-to-day administration of the collective bargaining relationship. Topics include: (1) union behaviour, structure, and operation – unionization of a company's employees, why employees join unions, and management's rights when confronted with an organizational drive; (2) contract negotiations – the strategy and tactics of bargaining by both management and the union; (3) contract administration – the day-to-day handling of problems under a union contract involving such matters as discipline and discharge, promotions, layoffs, subcontracting, automation, union security, grievance procedure, and arbitration.

Instructor: Mr. G. E. Phillips

BUSINESS 0435 – *Labour Relations II*

Prerequisite: Business 0137 or permission of the instructor

This is a seminar course concerned with a series of policy questions relating to the conduct of the employer-employee relationship. Active student participation is required in the discussion of cases and issues arising from the creation and administration of the collective bargaining agreement. Topics vary to reflect particular student interests but are centered in the following areas: the management of technological change and job displacement; collective bargaining in the public sector; public policy and labour relations; union goals and issues in the future; relationship between job attitudes, job satisfaction, labour turnover and productivity; comparative study of the fundamentals of grievance handling, analysis of mediation and fact-finding techniques; the rise of arbitration as a means of resolving industrial conflict. The seminar is based upon broad-ranged readings, reflective group discussion, and individual research papers on significant subjects in the field.

Instructor: Mr. G. E. Phillips

BUSINESS 0531 – *Advanced Accounting I*

Prerequisite: Business 2063 and 0134

A study of selected topics in financial accounting including the following: intercorporate investments and consolidated financial statements, partnerships, branch accounting, consignment and instalment sales, fund and estate accounting.

Instructor: Mr. H. D. Elmslie

BUSINESS 0536 – *Social Marketing*

The course examines the marketing function in the context of non-profit organizations, as it is performed to enhance social goals. Specifically, the creation of marketing plans for governmental, health care, religious, etc. institutions is

studied. Case work and lecturing are the principal teaching methods used, supplemented by group work.

Instructor: Mr. N. G. Papadopoulos

BUSINESS 1634 – *Administrative Decision-Making Techniques*

An introduction to a variety of administrative problems which can be resolved by the use of quantitative methods. Course participants are familiarized with computer aids which increase the efficiency of decision-making. Emphasis is placed on the use of quantitative techniques and the interpretation of computer-generated results.

Instructor: Mr. R. A. Nelson

BUSINESS 2035 – *Computer Concepts*

This course introduces the students to the capabilities and limitations of electronic data processing as it applies to the field of management. Students will explore the concepts of management information systems, electronic business data processing and will be required to develop a basic facility in computer programming. Topics include: Historical development, hardware and software, computer memory, external data representation, systems analysis and design and control in computer systems.

Instructor: Mr. W. C. Honey

BUSINESS 2036 – *Systems and Procedures*

An introduction to the theory and practice of the systems approach in a management environment. Topics include basic concepts of systems, logical basis for systems, elements of systems, systems analysis for business management, performing the systems study, systems design, and data processing and systems. Case studies will be used to develop systems analysis techniques of problem solving and applications of systems principles.

Instructor: Mr. W. C. Honey

BUSINESS 2063 – *Accounting*

Principles of accounting and some of their applications in modern business. Sole proprietorships, partnerships and limited companies are discussed in some detail: consideration is given to the managerial aspects of accounting with emphasis upon departmental accounting, budgets and various specialized or supplementary statements.

Instructor: Mr. H. D. Elmslie
Mr. L. J. Rocco

BUSINESS 2634 – *Operations Management*

Building on a foundation of basic decision-making techniques, this course will examine the problems and concepts prevalent in various kinds of organizations with respect to planning, scheduling, layout, work study methods, and inventory control. Where possible these problems will be examined using some of the more basic models from operations research such as the economic lot-size model and PERT-CPM.

Instructor: Mr. R. A. Nelson

BUSINESS 3067 – *Finance*

A course with general management emphasis covering financial forecasting and analysis, preparation of cash budgets, management of current assets, capital budgeting, management of short, medium and long-term funds, capital structure and valuation of the firm, the cost of capital in relation to financing decisions, dividend policies and their relation to retained earnings, business failures and take-over.

Instructor: Mr. A. C. Hensel

BUSINESS 3661 – *Administrative Policy*

The course has been designed to provide a comprehensive introduction to the broad scope of policy formulation. The administrative role in goal setting and policy implementation is explored in some detail. Emphasis is placed on general approaches to problem-solving and the adaptation of the organization to environmental realities. Participants will be provided with opportunities to integrate and synthesize the concepts and techniques gained from previous CORE courses.

Instructor: Mr. D. H. Alexander

NURSING

NURSING 1232 – *Introduction to Nursing I*

The development of a conceptual framework for nursing, based upon the scientific method. Emphasis is placed on man as an holistic being and the family as the basic unit of society. Aspects of health promotion, prevention, treatment, rehabilitation and education, components of interpersonal relationships in nursing, and an understanding of the nursing process are interwoven.

Instructor: Mrs. F. Welch

PHYSICAL AND HEALTH EDUCATION

O.R. 2135 – *Organization and Administration in Recreation*

Prerequisite: O.R. 1100 or permission of the Department

An introduction to the concepts of organizational procedure and theory of administration as they apply to the recreational service setting. Studies will be made of all levels of government, federal, provincial, municipal, that affect the area of recreation. Specific reference will be made to legislation, financing, budgeting, problem-solving, public relations, administrative practices and departmental organization of these and other recreational agencies.

Instructor: Mr. L. Thompson

O.R. 3616 – *Group Dynamics in Recreation*

Prerequisite: O.R. 1100 or permission of the Department

Examination of the positive and negative effects of group interaction in wilderness situations. The use of leisure experience to resolve emotional conflict and cope with stress. The effects of camping experiences on the family unit. The study on the interaction of individuals within groups involved in recreational activities.

Instructor: Mr. L. Thompson

O.R. 3610 – *Outdoor Recreation for Special Populations*

Prerequisite: O.R. 1100 or permission of the Department

The study of outdoor recreation as a therapeutic service for special populations. The knowledge and understanding about those health conditions and social problems of some individuals that affects their ability to engage in leisure and recreational activities. The study of attitudes of society toward special populations, the prevalence of special populations and the concepts of health-illness and rehabilitation in our society.

Instructor: Mr. H. Akervall

O.R. 3614 – *Regional Impact of Recreation*

Prerequisite: O.R. 1100 or permission of the Department

Tourism and recreation as an industry. The assessment of the economic impact on regional economics. Outdoor recreation as an agent of social conflict and change. Environmental impact of outdoor recreation activities.

Instructor: Mr. H. Akervall

P.H.E. 3033 – *Theories of Motor Learning*

An overview of the theoretical aspects of motor learning and human performance. Topics will include learning theories, feedback, transfer, mental practice, practice distribution, physical and intellectual differences, reaction time and movement time. Students will be introduced to a history of related research and research designs.

Instructor: Dr. B. Rushall

P.H.E. 3034 – *Motor Learning – Applied*

Prerequisite: P.H.E. 3033

Practical application of the research findings related to motor learning and human performance. Experiments will be carried out to familiarize students with applied aspects of motor learning based upon the theories already covered in P.H.E. 3033. Students will select major areas of interest and carry out experimentation under laboratory conditions.

Instructor: Dr. B. Rushall

P.E. 4060 – *Physiology of Exercise*

An examination of the essential principles and facts in human physiology. Special attention to be given to skeletal muscles, cardiorespiratory systems.

Instructor: Dr. N. Lavoie

P.H.E. 4166 – *Community Health*

Course includes procedures to be used in seeking solutions to health problems of the schools and the general community. Specialists will present specific phases of their own particular fields. Principles, problems and procedures in the organization and administration of health and physical education programs will be discussed and related project work will be carried out in the field.

Instructor: Dr. R. Mitchell

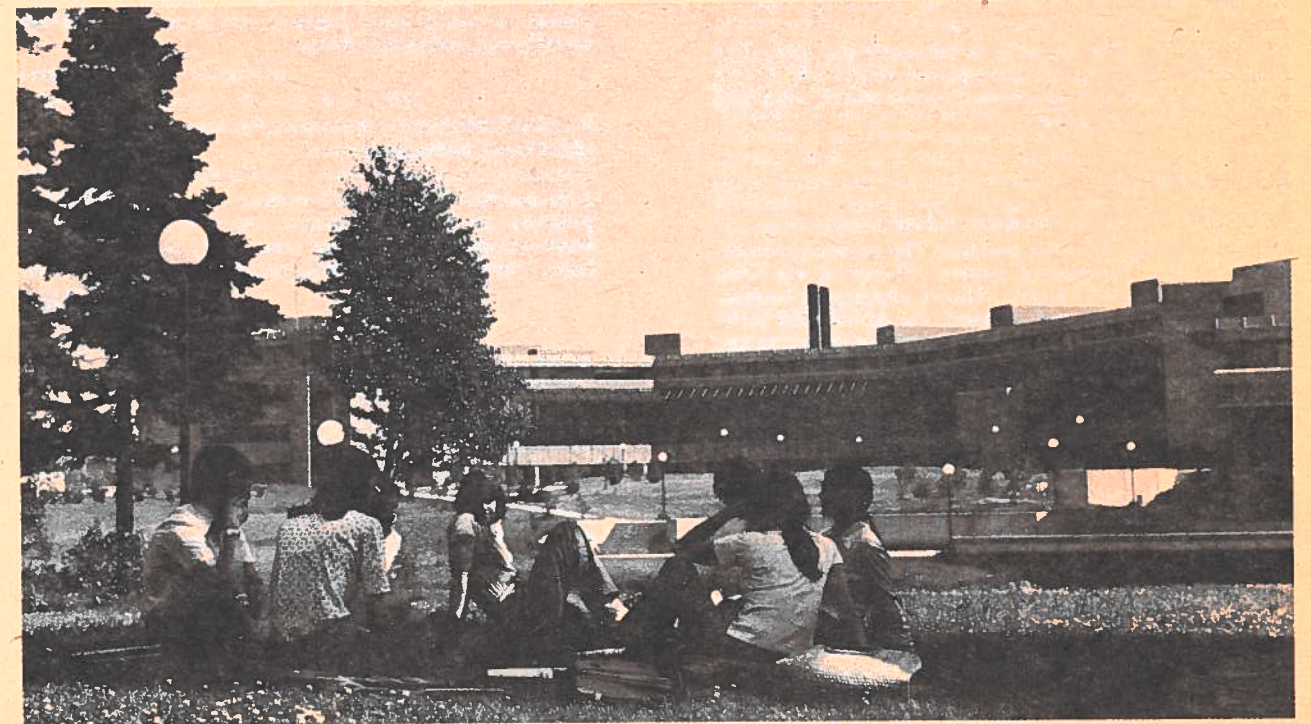
FORESTRY

FORESTRY 2530 – *Canadian Woods: Their Structure, Properties and Use*

A course designed for various wood users, including architects, engineers, builders, lumbermen and teachers. Also designed for Forestry and non-Forestry students. This course will deal with techniques of identification, structure and properties of important Canadian Woods. The main wood products and their uses will also be discussed. This course would also include tours of plants, pulpmills, sawmills, particleboard and wood preservation mills.

Instructor: Mr. K. C. Yang

Summer Course Offerings



FACULTY OF ARTS

NATIVE STUDIES PROGRAM

The Lakehead University Native Studies Program provides an in-depth analysis of Indian, Metis and Eskimo cultures. The four half-courses that make up the Program are not taught in a traditional way. More than a dozen nationally known figures attend the Program as guest speakers every year. Their talks are supplemented with films, seminars and question periods. Each of the half-courses in Native Studies earns the student one-half credit in Anthropology at the third year level. They can be taken independently or in sequence. If you are interested in further information about the following courses in Native Studies please contact Dr. Paul Driben, Director of Native Studies, Department of Anthropology, Lakehead University, Thunder Bay, Ontario, P7B 5E1.

ANTHROPOLOGY 3430/31 – *Native People and the Past*

This course focuses on an analysis of Native cultures from prehistoric times through to the height of the fur trade. The aim of the course is to evaluate Native-European relations prior to Confederation.

ANTHROPOLOGY 3432/33 – *Native People and the Government*

The aim of this course is to consider Native-government relations since the time of Confederation. Topics include the status of Native Women, Indian education, the role of the Department of Indian Affairs and Northern Development and the nature of treaty organizations.

ANTHROPOLOGY 3434/35 – *Native People and the Land*

During the past few years land ownership has emerged as a central issue in Native-government relations. This course examines some of the main controversies centering about this issue.

ANTHROPOLOGY 3436/37 – *Native People and the Issues*

The purpose of this course is to introduce the student to some of the key issues in contemporary Native life. Among others, topics will include economic development, Minimata disease and alcohol abuse.

ECONOMICS

ECONOMICS 1100 – *Principles of Economics*

Definition of the economic problem. The production-possibility frontier. Diminishing returns. Theory of the firm. Theory of competitive supply. Theory of demand. Interactions between supply and demand: the equilibrium price. Monopoly and other imperfectly competitive market forms. Markets for land, labour and capital. Income distribution. National income determination and the causes of unemployment and inflation. Economic fluctuations and growth. International trade. Flexible and fixed foreign exchange rates. Canadian economic problems and policies.

Instructors: Dr. H. Nguyen
Mr. J. Vermeeren

ENGLISH

ENGLISH 2700/01 – *Canadian Literature in English*

Prerequisite: English 1100 or permission of the Department

The rise and development of poetry and prose literature in English-speaking Canada from the beginning to the present time.

Instructor: Dr. S. MacGillivray

FINE ARTS

FINE ARTS 2925 – *Directing I*

An introduction to the theories and techniques of play direction. Presentation of scenes and short plays.

Instructor: Ms. Jan Selman

FINE ARTS 0700 – *Introduction to Music*

An introduction to music; ways to listen to music; basic musical materials; instruments and musical forms. Designed for the non-music major, and for the student who has little or no formal instruction in music, with a view to developing a repertoire of representative compositions, and a technique for listening analytically and critically.

Instructor: T.B.A.

FINE ARTS 0810 – *Introduction to Music Theory*

An introduction to basic music theory: note-values, time signatures, key signatures, scales, intervals, chords, transposition, and other musical rudiments. The course is designed for the non-music major.

Instructor: Mr. H. Wevers

FINE ARTS 0200* – *Basic Design* (Enrolment limit: 25 students)

A practical and theoretical exploration of the basic design elements common to man-made and natural forms. Through studio work, illustrated lectures and recommended readings, a student is encouraged to recognize and expand his creative and perceptual potential.

Instructor: T.B.A.

FINE ARTS 1100* – *Introduction to Ceramics*

Prerequisite: Fine Arts 0200

The history of pottery; the theoretical and practical aspects of clay and glaze formulation; the preparation of clay and glazes; throwing, hand building, mouldmaking, and slip casting; decoration and design.

Instructor: Mr. E. Lindgren

FINE ARTS 3201* – *Advanced Painting* (Enrolment limit: 20 students)

Prerequisite: Fine Arts 2200

A course for the advanced student who has worked out problems on paper and canvas and is ready to attempt large canvases, working from preparatory sketches. Several large canvases, plus numerous smaller works are expected.

Instructor: T.B.A.

GEOGRAPHY

GEOGRAPHY 0230/31 – *Field Techniques in Human Geography**

Prerequisite: Permission of the Department

A practical introduction to the techniques used in gathering data related to various branches of human geography. Students will carry out practical assignments and write a final report.

Instructors: Dr. B. Phillips
Dr. D. Kemp/Dr. A. Brummel

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GEOGRAPHY 0250/51 – *Field Techniques in Physical Geography**

Prerequisite: Permission of the Department

A practical introduction to the techniques used in gathering data related to various branches of physical geography. Students will carry out practical assignments and write a final report.

Instructors: Dr. B. Phillips
Dr. D. Kemp/Dr. A. Brummell

*Note: These two courses are offered together over the six week period and cannot be taken separately. Geography 1100 or an equivalent introductory Geography course is considered a desirable but not essential background. Students will be expected to complete project work outside scheduled instruction time.

GEOGRAPHY 3900/01 – *Urban Geography*

An examination of the development, theory, techniques, and problems of urban planning. Current problems in North American urban regions, and planning responses to those problems, will be stressed. *Some background in urban studies would be desirable for persons enrolling in this course.*

Instructor: Mr. P. Raynor

HISTORY

HISTORY 1100 – *An Introduction to Historical Studies*

Europe from 1648 to the present.

Instructor: Dr. E. Hughes

HISTORY 2300/01 – *Canadian*

Prerequisite: Permission of the Department

Canadian history from the establishment of the first colonial settlements to the present with an opportunity for students to examine in detail selected aspects of this development.

Instructor: Dr. J. D. Wilson

HISTORY 3400/01 – *Britain Since 1688*

Prerequisite: Permission of the Department

An examination of modern Britain, contributing to a historical understanding of parliamentarism, democratization, industrialization, religious change, imperialism, war, depression, prosperity, socialism, decolonization, etc.

Instructor: Dr. P. Raffo

LANGUAGES

FRENCH 1100 – *Intermediate Oral French*

Prerequisite: Grade 13 or French 1000

This intensively oral course, which includes written exercises, is intended to provide the student with oral fluency in modern idiomatic French. (May be taken as an elective course by French Majors.)

Instructor: T.B.A.

FRENCH 3520/21 – *The Age of Enlightenment*

Prerequisite, or co-requisite with the permission of the Department: French 2200/01

Characteristic works of the eighteenth century, with particular reference to a selection of the following: Marivaux, L'Abbe, Prevost, Montesquieu, Voltaire, Diderot, Rousseau, Laclos, Beaumarchais, Chénier.

Instructor: Mr. A. Nabarra

FRENCH IMMERSION PROGRAM

In an Immersion Program the language under study is presented in two radically different ways: on the one hand formal classroom work allows the student to acquire basic grammar, structures and pronunciation at an accelerated pace; on the other hand social and cultural activities, conducted in French, give him the chance to use what he has learned in authentic situations, the chance to make French his language of communication in as many different contexts as possible. It should be understood that these social and cultural activities are an essential part of the Immersion Program.

0100 – *Elementary Level*

An intensive introduction to the French language and to French Canada. This course is open to beginners. Exercises in spoken and written French, phonetics, dictation, pronunciation and conversation. Stress is placed on oral skills. Reading of selected texts introducing the culture of Quebec and the French-speaking world. Social and cultural activities. 2 credits – 5 hours daily: grammar, lab, conversation, civilization.

0200 – *Intermediate Level*

Prerequisite: Grade 11 or Fr. 1000

A comprehensive review of French grammar, written and oral exercises, phonetics and conversation. Stress is placed on oral communication and the course is intended to provide the student with fluency in modern idiomatic French as well as an appreciation of Quebec's history and role in Canada and the French-speaking world today. Reading of selected literary texts. Social and cultural activities. 2 credits – 5 hours daily: grammar (2), conversation (1), civilization (2)

0300 – *Advanced Level*

Prerequisite: Grade 13 or Fr. 1200

Advanced study of French grammar and idiomatic expression, Quebec history and French Canadian society today. All-round training in communication in French. Emphasis is placed on oral skills but work includes written exercises, translation and composition. Survey of Quebec's history and role in the French-speaking world today. Discussion of current social and language problems. Selected literary texts; social and cultural activities. 2 credits – 5 hours daily: language and idioms (2), conversations (1), history (1), civilization (1)

PHILOSOPHY

PHILOSOPHY 1102 – *What is Man?*

An introduction to philosophy which focuses on the concept of human nature and particular problems arising out of it: freedom and determinism: the basis of moral judgments: arguments for the existence of God: theories of mind. A brief introduction to formal logic.

Instructor: R. C. S. Ripley

POLITICAL STUDIES

POLITICAL STUDIES 2600/01 – *World Politics and Canadian Policy*

A study of the changing structure of world politics with special reference to the major powers, international subsystems and Canada's foreign relations.

Instructor: Dr. P. Sarbadhikari

PSYCHOLOGY

PSYCHOLOGY 1100 – *Introductory Psychology*

A survey of the subject matter, basic theoretical positions and methods of psychology and examination of the major research interests in human and animal study areas. The emphasis of the course will be on the acquisition of appropriate tools for the analysis and evaluation required in later courses.

Instructor: T.B.A.

PSYCHOLOGY 2101 – *Statistical Methods for Behavioural Research*

Prerequisite: Psychology 1100

Application of statistical methods to behavioural problems; description of behavioural data in terms of averages, measures of variability, and measures of relationships; problems of sampling theory and tests of statistical hypotheses.

Instructor: Dr. J. L. Jamieson

PSYCHOLOGY 3201 – *Introduction to Psychometric Theory*

Prerequisite: Psychology 1100

Theory and principles underlying the construction and use of psychological tests. A critical evaluation of intelligence, learning, achievement, aptitude, interest, and personality tests.

Instructor: T.B.A.

PSYCHOLOGY 4001 – *Sensation and Perception*

Receptor mechanisms and the development of methods and theories in perception. Classical and current research will be discussed, with emphasis on the visual and auditory systems.

Instructor: T.B.A.

FAMILY LIFE PROGRAM

The Lakehead University Family Life Program, which consists of two full university credits, is unique in its concentrated focus on the individual person, as he or she relates to others.

This highly successful program is designed to provide the participant with a greater understanding of interpersonal relationships, human sexuality, family structure and dynamics, values and value systems, stress and methods of coping with stress, plus the opportunity to interact with other people from all walks of life.

PSYCHOLOGY 2900 – *Family Life Program (Part I)*

PSYCHOLOGY 3900 – *Family Life Program (Part II)*

SOCIAL WORK

SOCIAL WORK 2220/20 – *Introduction to Social Work as a Profession*

This course concentrates on the evolution of the profession of social work within the field of social welfare. Topics covered include: The historical development of social work, the characteristics of the profession and its methods, and an examination of social work practice with specific client groups.

Instructor: Mr. Allan Hansen

SOCIOLOGY

SOCIOLOGY 2202/03 – *Social Problems*

A study of the nature and causes of contemporary social problems.

Instructor: Dr. J. Minore

SOCIOLOGY 2500/01 – *Family Sociology*

Prerequisite: Sociology 1100 or permission of the instructor

An analysis of function, structure, and organization of family institution in various cultural settings. Contemporary problems of the family and their social implications discussed.

Instructor: Dr. R. Ruiperez

FACULTY OF SCIENCE

LIBERAL SCIENCE

LIBERAL SCIENCE 3400 – *(Biology/Chemistry) Problems in Pollution*

Interdepartmental seminar/tutorial course on problems of land, water, and air pollution. Effects on our environment and its conservation.

Instructors: Dr. M. W. Lankester
Dr. D. G. Holah

MATHEMATICAL SCIENCES

Mathematics 1160 – *Calculus and Algebra*

Prerequisite: Grade 13 Mathematics

Elementary differential and integral calculus, difference equations, linear systems, and inequalities. The mathematics is presented at an intuitive level, with an emphasis on its applications.

Instructor: Mr. L. D. Black

MATHEMATICS 0120 – *Mathematics, an Historical and Cultural Approach*

The role of mathematics in formulating and solving problems, both from the traditional sciences and from the social sciences. The emphasis is on the mathematical method rather than on the mathematics.

Instructor: T.B.A.

PHYSICS

PHYSICS 1101 – *Introductory Physics*

Prerequisite: Grade 13 Mathematics

An introductory course in the fundamentals of physics. This calculus level course is intended for students in the physical sciences, mathematics, and applied science. Topics include: Newtonian mechanics for particles and rigid bodies, oscillations, waves in a medium, light, elementary geometrical and physical optics, electric forces and field, D. C. circuits, magnetic fields and magnetic properties of matter.

Instructor: Dr. D. G. Hughes

PHYSICS 1103 – *Introductory Physics for Life Sciences*

This course is designed for students in the life sciences. It uses some calculus although the mathematical treatment is not as rigorous as that used in Physics 1101. The course includes an introduction to the concepts of the mechanics of particles and rigid bodies, energy, heat and temperature, elasticity, oscillations and waves, light and geometrical optics, electricity and D.C. circuits. A discussion of optical instruments, the electrical and mechanical properties of biological membranes and other applications to the life sciences will be included. The course satisfies the prerequisites for all second year physics courses.

Instructor: Dr. D. G. Hughes

FACULTY OF UNIVERSITY SCHOOLS

BUSINESS ADMINISTRATION

BUSINESS 1061 – *Introduction to Management*

This course has been designed to introduce participants to the fundamental principles involved in the management of organizations. Specific emphasis is placed on the functions of management related to the planning, organizing, decision-making and controlling of organizational activities. The overall aim of this course is to provide a comprehensive overview of the dynamic relationships which exist between the many interacting components which comprise the whole organization (i.e., goals, structure, technology, human resources, and the relevant external environment). Systems theory is used to develop a framework which can be used to illustrate these relationships. Course content covers the following general core areas: Technology and Organization, Decision-making, Management of Human Resources, and Interactions with the Environment.

Instructor: Mr. R. Gallupe

BUSINESS 3068 – *Organizational Behaviour and Administration*

This course has been designed to provide a comprehensive introduction to organization theory. The overall aim of the course is to develop an awareness of human behaviour under the constraints imposed by organization. Theory drawn from research in the behavioural sciences and management sciences is introduced to provide an analytical framework on which to base decisions in dealing with the complexities of human behaviour in modern organizations.

Instructor: Mr. S. B. Handford

PHYSICAL AND HEALTH EDUCATION

OR 1100 – *Introduction to Outdoor Recreation*

An overview of this field, its development, current state of knowledge and problems. The contribution of various disciplines to the understanding of leisure phenomena and recreational activities in modern society as they apply to the outdoor setting.

Instructor: T.B.A.

PE 2132 – *Organization and Administration*

A study of the factors involved in program planning conducive to the realization of desirable objectives in physical and health education including budgets, equipment considerations, hiring of staff, public relations, facility planning and the planning of athletic activities at all levels.

Instructor: Dr. R. McKechney

PE 2134 – *Athletic Injuries*

Theoretical and practical experience in first aid, taping and wrapping, massage, elementary physiotherapy and various preventive techniques of training and conditioning for athletic events.

Instructor: Dr. R. McKechney

PE 3030 – *Measurement and Evaluation of Physical Activity I*

An introduction to evaluation in physical education and the various tools and equipment available for measurement of activity. The related literature will be covered in some detail. There will be an emphasis on elementary and secondary school levels.

Instructor: Dr. T. Song

PHE 3032 – *Measurement and Evaluation of Physical Activity II*

Prerequisite: PHE 3030 or equivalent

Preparation of tests of skill and performance including game skills, strength, flexibility, knowledge tests, anthropometric measures, etc. Students will select areas of major interest and carry out research and experimentation in these areas.

Instructor: Dr. T. Song

O.R. 2132 – *Planning Indoor Recreation Areas and Facilities*

Prerequisite: O.R. 1100 or permission of the Department

An introduction to the planning, design and construction of recreation facilities. The course will concentrate on indoor recreation such as recreation sports centres, community school buildings, air support structures, arenas, multi-purpose facilities and other specialized indoor facilities.

Instructor: Mr. D. Siciliano

O.R. 2133 – *Planning Outdoor Recreation Areas and Facilities*

Prerequisite: O.R. 2132

An introduction to the planning, design and construction of outdoor areas and facilities. The course will investigate the following: urban passive parks, urban active parks, regional parks, alpine and cross country ski areas, waterfront and beach areas, camp-sites, fitness trails, and all building structures related to the above.

Instructor: Mr. D. Siciliano

PHE 4132 – *Seminar*

A supervised research project involving an in-depth analysis of an approved topic which holds particular interest to the student.

Instructor: Dr. J. Widdop

PHE 4133 – *Theory of Coaching*

Principles, organization, and coaching methods, common to all sports, will be applied to the coaching of sports of special interest to the student.

Instructor: Mrs. V. Widdop

FACULTY OF EDUCATION

THE BACHELOR OF EDUCATION (EXTENSION) PROGRAM

The Faculty of Education offers a program which enables experienced teachers to obtain the B.Ed. degree through part-time study. The program is designed to accommodate teachers who already hold an academic degree as well as those who wish to pursue academic and professional studies concurrently.

ADMISSION REQUIREMENTS

1. A certificate or letter of standing qualifying the applicant to teach in an elementary or secondary school in the province of Ontario, or equivalent professional qualifications.
2. An approved university degree, or evidence of admission to a Bachelor of Arts or Bachelor of Science program at Lakehead University.

B.ED. DEGREE REQUIREMENTS (EXTENSION PROGRAM)

To qualify for the B.Ed. degree, candidates enrolled in the Extension program must:

1. Hold an approved university degree or have completed all requirements for a B.A. or B.Sc. degree,
2. Attain passing grades with an overall average of at least 60 per cent in two full courses
 - (a) one course selected from Group I (Curriculum and Instruction in Subject Fields) or Group II (General Curriculum Theory and Practice); and,
 - (b) one course selected from Group III (Educational Foundations) or Group IV (Theory and Practice in Specialized Fields).

NOTE: Some courses offered for B.Ed. (Extension) credit also lead to Ontario Ministry of Education certificates.

Admission to these courses may require additional qualifications.

APPLICATION AND REGISTRATION PROCEDURE

1. Admission to Type A Seminars:
Applicants for admission to Type A Seminars should write to the Registrar, Lakehead University, requesting application forms. Special application forms are used for Type A admission.

2. Admission to B.Ed. (Extension) Program:
Teachers who have not previously taken B.Ed. (Extension) courses should complete the Admission and Registration sections of the Summer Session Enrollment form. A copy of the applicant's teaching certificate should be attached.

Teachers who hold an academic degree should list B.Ed. (Extension) as their program.

Teachers who intend to work toward an academic and a professional degree concurrently should list their program as B.A./B.Ed. (Extension) Concurrent or B.Sc./B.Ed. (Extension) concurrent.

3. Admission and/or Registration – B.A./B.Sc. General Program:

Teachers who wish to have Education courses credited to an academic (General Program) degree should list their program as B.A. (General Program) or B.Sc. (General Program).

For further information about Admission or Registration procedures, enquiries should be directed to:

The Registrar
Lakehead University
Thunder Bay, Ontario
P7B 5E1

PRE-REQUISITES FOR ADMISSION TO TYPE A SEMINARS

To be admitted to a Type A Seminar, the applicant must:

- (a) hold an Interim or Permanent High School Assistant's Certificate, Type B, or an Interim or Permanent Elementary School Teacher's Certificate, Standard 4.
- (b) hold a degree of Bachelor of Arts or Bachelor of Science from an Ontario university, or a degree the Ministry of Education considers equivalent thereto in a program.
 - (i) that requires four years of university study, or the equivalent thereof, beyond Grade XIII, to a total of at least sixty university credits, and
 - (ii) in which the candidate has obtained at least second class or equivalent standing in each of one or two specialist fields, including, in the case of two specialist fields, at least forty-two credits with not fewer than eighteen university credits in each of the specialist fields, or, in the case of one specialist field, at least twenty-seven university credits.

B.ED. (EXTENSION) COURSES

The B.Ed. (Extension) program is designed for teachers who wish to keep abreast of current developments in educational theory and practice. Course content does not duplicate but rather builds upon the content of pre-service teacher education programs recognizing, in addition, insights that have accrued through teaching experience.

A selection of B.Ed. (Extension) courses will be offered in each of Groups I, II, III, and IV.

The following courses will be offered during the 1978 Summer Session

GROUP I

- Ed. 4501 – Environmental Studies for the Primary and Junior Grades
- Ed. 4508 – Curriculum and Instruction in Elementary School French: Part II
- Ed. 4523 – Type A Geography

GROUP II

- Ed. 4562 – Teaching English as a Second Language

GROUP III

- Ed. 4565 – Psychological Foundations of Early Childhood Education
- Ed. 4566 – Educational Psychology: Learning

GROUP IV

- Ed. 4584 – Introduction to Special Education
- Ed. 4586 – Special Education II

MASTER OF EDUCATION PROGRAM

Lakehead University offers Master of Education programs in two areas of specialization: Educational Administration and Curriculum Development. Intended for teachers and school administrators, these programs have as their objective the advancement of educational practice in schools and school systems.

Information regarding programs, admission requirements and application procedures may be obtained from:

Dr. Mary H. Richardson, Chairman
Continuing Teacher Education Program
Faculty of Education
Lakehead University
Thunder Bay, Ontario

Applicants wishing to commence M.Ed. studies in July must submit application forms and all necessary supporting documents prior to March 31, 1978. Admission is selective and applicants will be notified of their admissibility in April.

The following M.Ed. courses will be offered in the 1978 Summer Session. All classes will be scheduled between the hours of 8:00 a.m. and 1:00 p.m.

Ed. 5513 – The Foundations of Curriculum
Ed. 5514 – Teacher Behaviour and Dynamics of the Learning Environment
Ed. 5517 – Reading in the School Curriculum
Ed. 5530 – Education Administration Theory
Ed. 5531 – Supervisory Relations
Ed. 5533 – Professional Negotiations in Educational Organizations
Ed. 5550 – Methods of Research in Education
Ed. 5571 – History of Education in Canada

B.ED. (EXTENSION)

EDUCATION 4501 – *Environmental Studies for the Primary and Junior Grades*

A course designed to assist teachers in the planning, execution and evaluation of integrated science and social studies programs aimed at increasing children's understanding of man and his environment. Methods and strategies for progressive concept development will be considered, and practical experience will be offered in the preparation of multi-media curriculum materials.

Instructor: T.B.A.

EDUCATION 4508 – *Curriculum and Instruction in Elementary School French: Part II*

Prerequisite: Ed. 4507 or completion of an introductory course in the teaching of Elementary School French approved by the Ontario Ministry of Education. An oral proficiency examination may be required.

A comprehensive and detailed study of methods used for the teaching of French in Ontario. The theory of applied linguistics upon which audiolingual methods are based will be introduced. Special topics related to the study of French within the Ontario school curricula: alternative French programs; immersion courses; extended programs; bilingual programs; motivation; evaluation; group work.

Instructor: T.B.A.

EDUCATION 4523 – *Type A Geography*

In depth study of the high school Geography curriculum with an emphasis on the Honour Graduation program.

Instructor: T.B.A.

EDUCATION 4562 – *Teaching English as a Second Language*

This course emphasizes the various aspects of the teaching of English as a second language: comprehension, conversation, pronunciation, structure of the language, reading, writing and Canadiana. It does so in the context of socio-cultural objectives including appreciation of the value of students' native cultural heritage; cultural and emotional adjustment to Canada; awareness of the cultural sensibilities of the different ethnic groupings in the ESL classroom; and knowledge of community resources available to non-English speaking students.

Instructor: T.B.A.

EDUCATION 4565 – *Psychological Foundations of Early Childhood Education*

Implications of developmental child psychology for childhood education, in particular for curriculum and teaching in the Primary grades J-K to 3. Topics will include theories of cognitive development; concepts of readiness; development of inter-personal perception; moral reasoning in childhood; development of the self-concept; teacher-child interaction; and assessment of developmental status. The course will include guided observation of children, and examination of curriculum materials.

Instructor: T.B.A.

EDUCATION 4566 – *Educational Psychology: Learning*

This course will approach the study of learning processes within the framework of pedagogical practice. Contributions of Piaget, Bruner, Gagne, Skinner and others will be considered.

Instructor: T.B.A.

EDUCATION 4584 – *Introduction to Special Education*

The course will reflect a whole-child approach to normal and atypical development. Interaction of emotional, cognitive and social processes in typical and exceptional children will be stressed. Education assessment, methods of identification, and prescriptive educational programming will be studied. The course will include a practicum in prescriptive programming.

Instructor: T.B.A.

EDUCATION 4586 – *Special Education II*

Prerequisite: Education 4584 or completion of an introductory Special Education course approved by the Ontario Ministry of Education.

A second course in Special Education. This course will emphasize methods for assessment and remediation of communication disabilities including disabilities in listening, speaking, reading and writing. Consideration will be given to individualized developmental programming for children and adolescent learners. Methods appropriate for students with specific learning disabilities, behaviour problems and intellectual exceptionalities will be studied. The course will include a supervised practicum.

Instructor: T.B.A.

MASTER OF EDUCATION COURSES

EDUCATION 5513 – *The Foundations of Curriculum*

Examination of the basic determinants of curriculum including the nature of knowledge, the process and conditions of learning, the characteristics of learners, cultural values, social aims, and political and economic influences. Integrative models of curriculum development will be studied.

Instructor: T.B.A.

EDUCATION 5514 – *Teacher Behavior and Dynamics of the Learning Environment*

An analysis of the role of the teacher in creating and managing learning environments. Emphasis is placed on teaching styles and techniques, classroom climates and the effect of these on pupil development. Current research on teacher effectiveness will be examined.

Instructor: T.B.A.

EDUCATION 5517 – *Reading in the School Curriculum*
The teaching of reading as part of the language program. The components of reading development are examined; methods and materials of instruction and testing techniques are emphasized.

Instructor: T.B.A.

EDUCATION 5530 – *Education Administration Theory*
An examination of modern organization and administrative theory and its application to schools and school systems. The nature and characteristics of formal and informal organizations are examined.

Instructor: T.B.A.

EDUCATION 5531 – *Supervisory Relations*

Behavioural theory and research especially as they relate to leadership, decision making, group processes and change and innovation are examined and applications to the supervisory role of administrators are studied.

Instructor: T.B.A.

EDUCATION 5533 – *Professional Negotiations in Educational Organizations*

A comprehensive study of collective bargaining, including the theories of bargaining, negotiating techniques and the implication of collective bargaining for public policy in education. The course examines contemporary and historic problems which have affected the development of collective negotiations by professional groups.

Instructor: T.B.A.

EDUCATION 5550 – *Methods of Research in Education*

Basic concepts, methods and problems in educational research are considered, with emphasis on steps in the research process, formulation of hypotheses, design of research instruments, methods of data collection, and the writing of research reports. The major purpose of the course is to develop critical readers of educational research.

Instructor: T.B.A.

EDUCATION 5571 – *History of Education in Canada*

A topical and issues approach to the history of Education in Canada with particular reference to the following: Church and State Relations, Changing Concepts of the Child and Family, The Growth of Educational Bureaucracy, The Changing Role and Status of the Teacher, The Textbook as a Mirror of Society, Political Influence on Educational Decision-making, Education in Minority Groups, Education of Indians and Eskimos, and Economic and Social Influences on Curriculum. Certain of the above topics will be examined in the light of developments in other countries especially Great Britain and the United States.

Instructor: T.B.A.

NATIVE TEACHER EDUCATION PROGRAM

The purpose of the Native Teacher Education program is to increase the number of qualified Native teachers in Northwestern Ontario, through an alternative program which will prepare teachers to meet the special social and cultural needs of Native communities taking into account such factors as heritage and language. Native teachers who have an intimate understanding of Native traditions, psy-

chology, way of life and language are best able to create the learning environment suited to the habits and interests of the Native child.

To this program will be admitted persons of Native descent who are recommended by a Native organization, and who meet one of the following conditions:

- successful completion of any Ontario grade 13 program acceptable to the University as satisfying the entrance standards with an average of at least 60%;
- adult admission requirements: applicants who do not meet the conditions listed above will be considered on an individual basis by the native education staff who will consider the following factors: academic standing, fluency in a Native language, work experience and other courses completed.

The Native Teacher Education Program is a two year program leading to an Interim Elementary School Teachers Certificate, Standard 2.

Prospective applicants should write requesting application forms and a copy of the booklet Native Teacher Education Program to:

The Registrar
Lakehead University
Thunder Bay, Ontario P7B 5E1

Information regarding the program, financial assistance, or other matters may be obtained by writing or telephoning:

Mr. Harold Linklater, Director
Native Teacher Education Program
Faculty of Education
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone: 345-2121 Extension 720

Summer Orientation Courses – 1978

EDUCATION 0221 – *English Language Skills*

This course is designed to improve the reading and writing skills, particularly those which will be important for other course work – taking notes from a lecture, writing essays, preparing seminar reports, etc. Self improvement will be stressed and a variety of teaching methods will be used.

Instructor: Mrs. Barbara Elwert

EDUCATION 0241 – *Mathematics Skills*

This course is designed to review and consolidate the mathematics principles and concepts necessary for the teaching of elementary school mathematics. Self-improvement will be stressed and a variety of teaching methods will be used.

Instructor: Mr. David Botly

EDUCATION 1110 – *Introduction to Native Education – Trends and Issues*

Current developments in elementary and Native education will be examined. The place of the school in the Native community, the role of the teacher, the direction of Native education, etc. will be examined with the aim of developing the ability to think critically about issues regarding Indian and Metis education. The booklets *Indian Control of Indian Education* and *People of Native Ancestry* will be discussed, seeking means of implementing the ideas expressed.

Instructor: Mr. Harold Linklater

OFF-CAMPUS PROGRAM

The Open Campus

Off-campus courses are offered during the Spring and Summer Sessions at centers throughout Northwestern Ontario. Many of the towns have diversified vacation facilities which are particularly attractive to people who appreciate the uncontaminated outdoors and want to get away from the congestion of the cities. Off-campus offerings are made in response to demand: the normal criteria are that at least eight students register, and that an instructor be available. Times and locations of off-campus classes are the responsibility of the local representatives.

The off-campus representatives would be glad to hear from potential students.

Off-Campus Representatives:

		HOME	SCHOOL
ATIKOKAN	Mr. Gary Human	597-2080	597-2703
BEARDMORE	Mrs. Carol Kirkpatrick	875-2047	875-2128
DRYDEN	Mr. Bob Jackson	223-4879	223-2316
EAR FALLS	Mrs. Helen Oshytko	222-3609	
FORT FRANCES	Mr. Paul Jackson	274-7329	274-3616
GERALDTON	Mr. Arnold Enders	854-0115	854-1683
KENORA	Mrs. Peggy Balka	468-6621	
LONGLAC	Mr. Len Dzierniejko	876-2210	876-4533
MANITOUWADGE	Mr. Bruce Taylor		826-4011
MARATHON	Mrs. Ruth Mitchell		229-0239
NIPIGON	Mrs. Lillian Wolter	887-3303	887-2107
RAINY RIVER	Mr. Don Ricci	852-3561	852-3953
RED LAKE	Mrs. Kay Tingley	727-2244	
SIOUX LOOKOUT	Mr. Dick McIntyre	737-2918	737-3170
TERRACE BAY	Mr. Brian Peters	825-3505	825-3255
VERMILION BAY	Mrs. M. Varga	223-3096	

Spring and Summer Course Offerings
Off-Campus 1978

The following is a listing of the courses that are being offered in the various off-campus centers for the coming Summer Session.

SPRING TERM

ATIKOKAN

LIBRARY TECHNOLOGY 2560 – *Techniques and Services A*

General library routines with special emphasis on the selection, acquisition and circulation of print and non-print materials. The course includes charging systems, shelf work, bibliographic searching, processing, binding and an introduction to the book trade. The special problems of handling periodicals will be considered.

DRYDEN

FINE ARTS 1100* – *Introduction to Ceramics*

The history of pottery; the theoretical and practical aspects of clay and glaze formulation; the preparation of clay and glazes; throwing, hand building, mould-making, and slip casting; decoration and design.

FINE ARTS 2201* – *Intermediate Drawing and Painting*

The first term is a course in advanced drawing, working largely from live models. The student will expand his technical proficiency in black and white media, begun in Basic Drawing. The second continues the study of painting begun in Basic Painting, with the student learning the preparation of canvases, paint chemistry, acrylic painting and the Venetian and Direct methods of oil painting.

LIBRARY TECHNOLOGY 1560 – *Orientation and History of Libraries*

Introduction to Library Science including a study of the library in the community, the various types of libraries, their services, collections and clientele, and also the role of the Technologist in the library. Attention is also given to the history of libraries, books and printing, and the mass media.

* Students are responsible for their art supplies.

FORT FRANCES

ANTHROPOLOGY 2410/11 – *Primitive Religion*

Anthropological approaches to the study of the clusters of belief, knowledge and behaviours subsumed under the rubric “religious” will be examined critically, from the work of Durkheim and Tylor to the work of modern scholars. The functions of religion in its mythic and ritual aspects will be considered, and the delineation of relationships between religion and the social bases of values will be undertaken.

ANTHROPOLOGY 2412/13 – *Primitive Medicine*

A survey will be made of beliefs and practices associated with the definition of health, illness, and disease in a number of small-scale and folk societies, together with the techniques of curing and prophylaxis used therein. The course will include a consideration of practices usually labelled as “magic”, “sorcery” or “witchcraft” by members of industrial-bureaucratic societies.

KENORA

FINE ARTS 3903 – *Theatre History: Special Topics*

A seminar exploring selected works and productions of a specified period, area, author or genre. The classroom work will be done for the departments of English or languages. The studio work will be done for the Fine Arts Division.

LONGLAC

ENGLISH 2006 – *Theatre Arts*

This course is designed to provide an introduction to theatre arts, to develop a greater appreciation and understanding of the art of the theatre, and to encourage the growth of creative imagination and expression.

MANITOUWADGE

ENGLISH 2600 – *American Literature to 1900*

A survey of major American writers from the Colonial Period to the end of the nineteenth century.

NIPIGON

ANTHROPOLOGY 2210/11 – *Field Techniques in Archaeology*

A study of archaeological techniques and methods of interpretation focusing on the excavation and analysis of material culture in the Laurentian Upland.

ANTHROPOLOGY 2212/13 – *North American Prehistory*

An examination of archaeology as the anthropological approach to the reconstruction of prehistoric societies, with particular reference to the evolution of culture in North America.

SIOUX LOOKOUT

FINE ARTS 0700 – *Introduction to Music*

An introduction to music; ways to listen to music; basic musical materials, instruments and musical forms. Designed for the non-music major, and for the student who has little or no formal instruction in music, with a view to developing a repertoire of representative compositions, and a technique for listening analytically and critically.

FINE ARTS 2201* – *Intermediate Drawing and Painting*

The first term is a course in advanced drawing, working largely from live models. The student will expand his technical proficiency in black and white media, begun in Basic Painting, with the student learning the preparation of canvases, paint chemistry, acrylic painting and the Venetian and Direct methods of oil painting.

* Students are responsible for their art supplies.

SUMMER TERM

KENORA

ENGLISH 3700 — *Studies in Canadian Prose*

An examination of selected works from Canadian prose in English (both fictional and non-fictional).

KENORA

FINE ARTS 3201* — *Advanced Painting*

A course for the advanced student who has worked out problems on paper and canvas and is ready to attempt large canvases, working from preparatory sketches. Several large canvases, plus numerous smaller works are expected for a Spring Exhibition.

* Students are responsible for their art supplies.

MANITOUWADGE

PSYCHOLOGY 2201 — *Industrial Psychology*

A survey of the applications of psychology in industry and commerce, emphasizing scientific methodology and research findings in the areas of personnel psychology, human engineering, organizational theory and consumer behaviour.

PSYCHOLOGY 3601 — *Contemporary Issues In Psychology I*

A critical examination and evaluation of some recent trends in theoretical psychology.

Please Note: Prior to commencement of off-campus classes, please contact the Department of Continuing Education for further information and details regarding possible cancellations due to insufficient enrollments.

