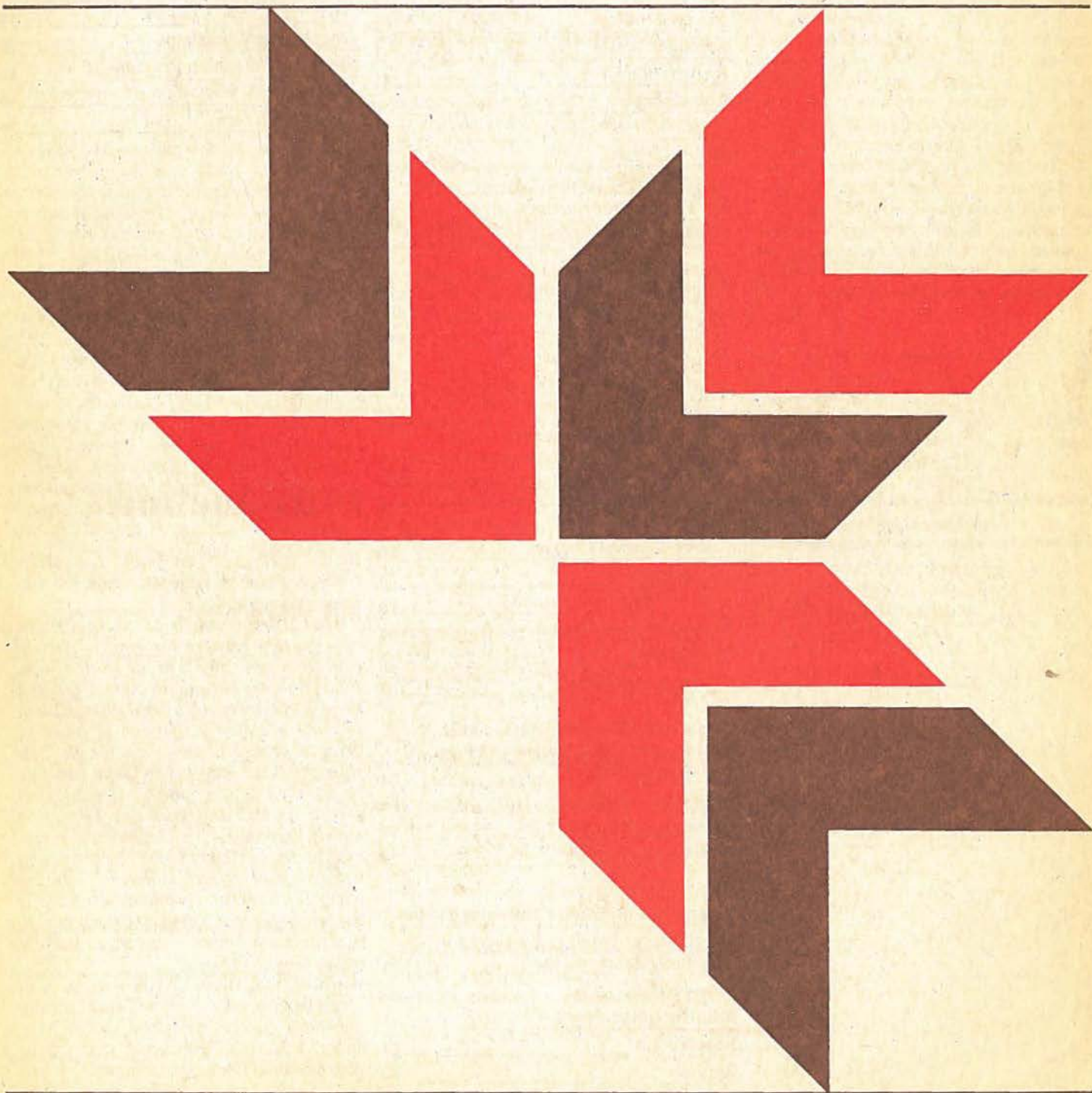


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# Part Time Studies at Brock University

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## Introduction

In the preface to his book *Too Much College*, Stephen Leacock made the following observation:

*"What I find wrong is the stark division now existing between the years of formal education and entry into the work of life. Education has become to a great extent a mere acquirement of a legal qualification to enter a closed profession in place of being a process undertaken for its own sake. All that is best in education can only be acquired by spontaneous interest; thus gained it lasts and goes on. Education merely imposed as a compulsory prerequisite to something else finishes and withers when its task is done . . . In the wider sense, what I want to advocate is not to make education shorter, but to make it much longer — indeed to make it last as long as life itself."*

We hope that those of you who wish to continue your education will find, among the many courses described in this brochure, a learning experience that fulfills your personal needs and interests.



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# Degree Credit Course Offerings

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## Part Time Studies at Brock

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This section introduces you to the degree credit courses offered to students during our Winter Evening, Spring Evening and Summer Day sessions. Through these sessions, the University provides persons who are unable to attend university full-time during the day with an opportunity to resume or continue their studies. But we also wish to point out to those who are able to attend during the regular day session, that you may do so on either a part-time or full time basis. The regular session opens up a whole new spectrum of courses which it is not possible to offer during the evening or summer sessions. Our faculty teach all of our courses and can't possibly repeat every single subject. So, if you can't identify something of interest from our ample part time evening or summer offerings, please write to us for a complete catalogue of courses. You will find everything from Anatomy to Urban Studies, and many other interesting courses in between. Courses like Chemistry and the Environment, Classical Archaeology, Creative Writing, Human Sexuality, the Political Culture of French Canada, Canadian Nationalism, Music Today, Drugs and Behaviour, Issues in Canadian Society and many, many more.

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## Admissions

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Applicants for part time study must complete an *Application for Admission* form which is available from the Registrar's Office. All applicants are responsible for ensuring that the required supporting documents, such as records of high school marks and previous university or college work, are filed. Those applicants not meeting the normal admission requirements may wish to consider applying under one of the following categories:

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## Mature Students

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Applicants who have been out of school for at least two years may be admitted as mature students. Normally, you will be required to write an entrance test. The

results of this test, together with an applicant's academic record, will determine admissibility to the University. Dates of entrance exam: Saturday, July 22 and Saturday, August 26, 1978.

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## Special Students

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Applicants who do not wish to write the entrance exam may request admission to take one full course as a 'special student.' Special students who successfully complete a maximum of two full courses may then apply for admission as degree candidates. All such applicants will be considered on an individual basis.

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## Registration Dates

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Registration for all new and returning students will take place on the following dates:

Winter Evening and Winter Day: Wednesday, September 6 through Friday, September 8.

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## Classes begin

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Winter Evening and Winter Day: Monday, September 11.

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## Fees

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Fee per course:	\$151.00
Late registration fee:	\$10.00
(Chargeable to any student who registers after the official registration day)	

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## Senior Citizens

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Senior citizens may be permitted to enrol in a course without payment of the regular tuition fee.

Applications for admission should be made in the normal manner.

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## Speed Reading Course

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The pressures of our age demand that people read quickly and efficiently. The Counselling Centre at Brock University

offers a 36-hour course in Speed Reading designed to improve both speed and comprehension.

To meet the needs of people with widely-varying backgrounds, the course is tailored to suit individual needs. It begins with an assessment of the student's personal reading habits and a careful measurement of reading rate and comprehension. Heavy use is made of modern equipment (controlled reader, tachistoscope, and reading laboratories). Students are placed in small groups for individual instruction and exercises: comprehension is tested after each exercise. A special feature of the course is its demand that comprehension keep pace with all increases in reading speed. A small but vital requirement is that the student devote *ten minutes* each day to practising his/her new speed-reading skills.

Those completing the course can expect to increase their reading skills by a factor of at least two or three — an improvement almost always accompanied by increased comprehension and retention. Dates and times to be announced at registration.

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## For Further Information

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Call or write The Registrar's Office, Brock University, St. Catharines, Ontario, L2S 3A1, (416) 684-7201, ext. 262





# 1978/79 Winter Evening Course Offerings

## School of Administrative Studies

### ADMI 190

#### Introduction to Management

An in-depth examination of the main functions of management (planning, organizing, staffing, directing and controlling) is supplemented by a review of basic business functions. Case discussions and written assignments are used to relate management theories to real-life situations. Lectures and case discussions.

*Blowatt W 7-9 + seminar*

### ADMI 211a

#### (formerly ADMI 210)

#### Organizational Communications

Interpersonal and cross-cultural communications in an administrative and organizational context.

Lectures, seminars, case discussions. (Not open to students who have taken ADMI 210hc.)

*Meeker TH 7-9 + seminar*

### ADMI 250

#### Introductory Financial and Management Accounting

Introduction to basic accounting principles and concepts. Computation and measurement of income, including the preparation of the statement of profit and loss, recognition of assets, liabilities and equities and the preparation of the balance sheet.

Lectures and labs.

*Hanrahan M 7-9 + seminar*

### ADMI 310

#### Law and Legal Institutions

#### (Also offered as POLI 230)

An introduction to the legal process and an examination of the major branches of the law with particular reference to Canada.

Lectures.

*TBA W 7-10*

### ADMI 321

#### Marketing

A basic course in the principles of marketing, including marketing strategy and decision making in the managerial role, product development, pricing policy, distribution, promotion and research. Lec-

tures, seminars, case discussions.

*Blowatt Th 7-9 + seminar.*

### ADMI 330a

#### (formerly ADMI 261hc)

#### Production Management

An introduction to the production process. Emphasis is placed on manufacturing as a system and includes examination of the man-machine function in attaining productivity.

Lectures, seminars, case discussions. (Not open to students who have taken ADMI 261hc.)

*TBA T 7-9 + seminar*

### ADMI 331b

#### Operations Management

This course is an extension of Production Management. It provides a detailed examination of the production control process. Emphasis is given to systems analysis in production planning and scheduling, inventory control, and quality control techniques using linear planning and simulation.

Prerequisite: ADMI 330hc.

Lectures, seminars.

*TBA T 7-9 + seminar*

### ADMI 350

#### Intermediate Financial Accounting

A study of accounting procedures for dealing with basic business transactions such as cash; banking; accounts receivable; inventories; long term investments; capital assets and depreciation; intangible assets; goodwill; current, accrued and contingent liabilities; long-term liabilities; share capital; retained earnings and equity reserves; sales and other sources of revenue; expenses.

Measurement of income and form of income from incomplete data. An introduction to cost accounting procedures including the development of variances and application of direct costing. Principles and practice of internal control.

Prerequisite: ADMI 250.

*Felton T 7-10*

### ADMI 351b

#### Management Accounting

An examination of cost determination, planning, control and budgeting as they

affect the internal management of the enterprise.

Prerequisite: ADMI 250.

Lectures, seminars and case discussions.

*Felton Th 7-9 + seminar.*

### ADMI 352

#### Auditing

Basic concepts and techniques of auditing and legal considerations as applied to the audit reporting requirements of the practicing public accountant.

Prerequisite: ADMI 250.

Lectures, seminars, case discussions.

*Edds, T 7-9 + seminar*

### ADMI 391

#### Finance

The role of the chief financial officer of an organization in planning and control. Financial ratios and funds flow analysis. Analysis of financial results. Control and management of the components of working capital. Sources of capital for businesses as well as public and other non-profit organizations. Theory and practice of selecting projects requiring funds, special financial problems of public institutions, multi-national organizations, mergers, consolidations, business failures and new business enterprises.

Prerequisite: ADMI 250 and permission of the instructor.

Lectures, seminars.

*Bart W 6-8 + seminar.*

### ADMI 403a

#### Capital Markets

The Canadian environment for short and long term credit and equity instruments. The interdependence of corporate financing decisions and the decisions of individual and institutional investors pursuing optimal investment returns. Determinants of the supply, demand, and price for the various financial claims in the context of regulated and efficient financial markets.

Prerequisite: ADMI 391

Lectures, seminars.

*TBA M 7-9 + seminar.*

### ADMI 404b

#### Investment Analysis

The financial instruments frequently





# 1978/79 Winter Evening Course Offerings

traded in organized securities markets are studied in terms of their risk and return implications for the issuer and owners. Valuation models for these securities are reviewed critically. Alternate investment strategies are explored in terms of appropriate portfolios of securities for various individual and institutional investors.

Prerequisite: ADMI 391.

Lectures, seminars.

*TBA Th 7-9 + seminar*

## **ADMI 411a**

### **Administration Through EDP**

Role of the user in an environment of computer-assisted systems. Control and audit of EDP systems and operations.

Lectures and seminars.

*Edds M 7-9 + seminar.*

## **ADMI 422a**

### **Marketing Research**

The nature and scope of market research as a managerial tool. The course includes an examination of scientific method and research design, experimentation, sample selection, data collection, and research procedure. A field work assignment will be required.

Prerequisite: ADMI 321  
(Formerly ADMI 220.)

Lectures, seminars and case discussions.

*Rotenberg W 7-9 + seminar.*

## **ADMI 423b**

### **Marketing Communications**

An examination of the major management problems which arise in the formulation, implementation and evaluation of programs in the areas of advertising, selling and related sales promotional activities.

Prerequisite: ADMI 321  
(formerly ADMI 220.)

Lectures, seminars and case discussions.

*Rotenberg W 7-9 + seminar.*

## **ADMI 440a**

### **Administrative Law**

The focus of this course is on judicial control of administrative action, with particular reference to the review of administrative decisions affecting business and other organizations made by federal and

provincial public authorities in Canada.

Lectures, seminars and cases.

*Gullett M 7-9 + seminar.*

## **ADMI 451a**

### **Canadian Income Tax**

Theories of taxation. Corporate and personal income tax computation, assessment, payment and appeals; taxation of non-residents; tax conventions, tax provisions applying to special circumstances and causes; tax planning.

Prerequisite: ADMI 350.

Lectures.

*Wray Th 7-10*

## **ADMI 460b**

### **Organizational Behaviour**

A critical examination of contemporary theory and research dealing with human behaviour in organizations.

Prerequisite: SOCI 296.

Lectures, seminars, case discussions.

*Freedman T 7-9 + seminar.*

## **ADMI 461a**

### **Organizational Change**

A study of theory, research and practice in the area of planned organizational change.

Prerequisite: SOCI 296.

Lectures, seminars, case discussions.

*Freedman M 7-9 + seminar.*

## **ADMI 462a**

### **Personnel Administration**

Manpower recruitment, selection and training, wage and salary administration, and the design and administration of benefit programs.

Prerequisite: SOCI 296.

Lectures, seminars.

*Yarmoshuk T 7-9 + seminar.*

## **ADMI 463b**

### **Micro Labour Relations**

Labour organization in Canada, labour legislation, union structures, contract negotiation, mediation, arbitration and administration of collective agreements.

Prerequisite: SOCI 296.

Lectures, seminars.

*Yarmoshuk M 7-9 + seminar.*

## **Biological Sciences**

### **BIOL 203**

#### **Principles of Environmental Biology**

The course emphasizes biological processes at the population and community levels of biological organization. Patterns and diversity in natural systems are viewed in the context of species-specific adaptations and evolution, population group characteristics, single-species and mixed-species interactions, the growth and regulation of numbers, community structural organization, species diversity, and energy flow through ecosystems.

Prerequisite: BIOL 190.

Lectures, laboratories.

*Cade/Dickman T 7-9 + lab. Th 7-9*

### **BIOL 333a**

#### **Taxonomic and Evolutionary Botany**

Modern developments in systematic and evolutionary studies in higher plants including topics in speciation and reproductive isolation, biochemical systematics and numerical taxonomy.

Prerequisites: Two second year biology courses.

Lectures, laboratories.

*Pringle M 7-9 + lab. 9-11*

### **BIOL 340a**

#### **Biology of Microorganisms**

Structure, biology and classification of various kinds of microorganisms.

Prerequisite: BIOL 190.

Lectures, laboratory.

*DiNinno W 7-9 + lab. Th 7-10.*

### **BIOL 342b**

#### **The Physiology of Microorganisms**

A study of microbial growth and metabolism as influenced by nutritional and environmental factors.

Prerequisite: BIOL 340a

Lectures, seminars.

*DiNinno W 7-10*





# 1978/79 Winter Evening Course Offerings

## Chemistry

### CHEM 292a

#### Introduction to Inorganic Chemical Analysis

Theory and practice of quantitative chemical analysis and chemical separations.

Prerequisite: CHEM 190 or permission of the Department.

Lectures, laboratory.

*Hartman T 7-10 + lab. W 7-10*

### CHEM 293b

#### Principles of Inorganic and Analytical Chemistry

Electronic structure and properties of inorganic compounds with emphasis on periodic variations; analytical techniques of inorganic chemistry including instrumental analysis and qualitative analysis. A continuation of Chemistry 292hc.

Prerequisite: CHEM 292hc.

Lectures, laboratory

*Hartman T 7-10 + lab. W 7-10*

## Classics

### CLAS 190

#### Classical Civilization

A survey of the literature, art, thought and political evolution of ancient Greece and Rome, based on masterworks of Classical literature. Slides and films are used to illustrate Classical history and archaeology.

*Rupp Th 7-10*

### CLAS 196

#### Greek and Roman Myths and Religions

Theories of mythology; major myths and their expression in ancient literature; the role of myth in Greek and Roman thought. Stages of Greek and Roman religion, including the mysteries which influenced the early Church Fathers.

*Booth M 7-10.*

### CLAS 291

#### (formerly CLAS 285)

#### Roman History

The history of Rome to the death of Marcus Aurelius (A.D. 180), with an emphasis on social and political developments from the Gracchi to Nero.

Prerequisites: CLAS 190 or 196.

*Earp W 7-10.*

### CLAS 294

#### Greek and Roman Drama

The origins of tragedy and comedy and their development as entertainment and literature through the Classical period. Greek authors: Aeschylus, Sophocles, Euripides, Aristophanes and Menander. Latin authors: Plautus, Terence and Seneca. Attention will be paid to Aristotle's *Poetics* and Horace's *Art of Poetry*.

Prerequisites: CLAS 190 or 196.

*Soady W 7-10.*

### CLAS 299

#### (formerly CLAS 275)

#### Roman Art and Architecture

A survey of Roman art and architecture from the Early Iron Age through the Late Empire within the framework of historical and cultural change; with attention to the influence of the Classical heritage on Early Christian/Byzantine art.

Prerequisites: CLAS 190 or 196.

*Soady T 7-10.*

### CLAS 310

#### (formerly CLAS 282)

#### The Ancient Near East

A survey of the history of the ancient civilization of Egypt, Mesopotamia, Anatolia, the Levant and Iran.

*Robertson M 7-10.*

### CLAS 485

#### The End of the Ancient World and the Beginnings of Mediaeval Europe, A.D. 180-600.

An analysis of two of the most significant transformations in European history: the fall of the Roman Empire and the emergence of early mediaeval society, and the victory of Christianity in Europe.

*Booth Th 7-10.*

### GREE 100

#### Language (Introductory)

The fundamentals of Greek. Selections from various Greek authors.

*Soady M + W 5-6:30*

### GREE 200

#### Language and Literature

Review of grammar and intermediate selections from Greek authors.

*Alston M + W 5-6:30*

### LATI 100

#### Language (Introductory)

The fundamentals of Latin. Selections from various Latin authors.

*TBA T 5-7 + Th 5-6*

### LATI 200

#### Language and Literature

Review of grammar. Intermediate selections from Latin authors.

*Soady T + Th 5-6:30.*

## Computer Science

### COSC 150a

#### Computers in Society

Concepts of computer system organization. Problem solving methods using structured English and flowcharts. Description of a number of applications drawn from areas such as business, medicine, language translation, music, graphic art, science. Discussion of the social, economic and moral implications.

Lectures, seminars.

*Cohen/Hughes/Thomas M 7-9 + seminar.*

### COSC 193a

#### FORTRAN Programming and SPSS

Review of computer operation and flow-charting. The FORTRAN programming language. Scientific packages with special reference to the SPSS package.

Prerequisite: Grade XI Mathematics.

Lectures.

(Not open to students who have taken COSC 100 or 190.)

*Cohen W 7-10.*

### COSC 195b

#### Structured Programming with PL/1

Techniques of developing well structured programs using top-down design. The





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PL/1 programming language. Programs, drawn from a variety of fields, will be implemented.

Prerequisite: COSC 150hc.

Lectures.

*Cohen/Thomas M 7-10.*

## **COSC 196a**

### **Commercial Programming**

The COBOL programming language; file structure and maintenance; security; direct access devices; internal sorting and table searching. Practical programming assignments.

Prerequisite: COSC 195hc, or permission of the instructor.

Lectures, laboratories.

*Hughes M + W 4-5:30*

## **COSC 212b**

### **Assembler Language Programming**

Overview of the hardware organization and general operation of a specific computer system (currently the IBM System/360 and /370). Basic Assembler Language programming.

Prerequisite: COSC 195hc.

Lectures, tutorials.

*Cohen Th 7-10.*

## **COSC 221a**

### **Computer Organization**

Introduction to Combinational and Sequential Logic; Computer systems organization: digital storage, digital arithmetic, control functions, input and output facilities. This is a non-programming course.

Prerequisite: COSC 195hc or permission of the instructor.

Lectures, laboratories.

*Thomas T 7-10.*

## **COSC 230a**

### **Data Structures**

Problem interpretation and relationship between data- and control- structure. The primitive data structures and their more common extensions. Strings: Markov algorithms, pattern matching. Linear structures: sequential and linked; stacks, queues and deques. Introduction to list-

processing languages. Recursion in data. Non-linear structures: trees and other applications. Records, sorting and searching, hash coding. File structures, archiving and retrieval. Data structures for virtual memories; free lists; dynamic allocation of storage, program and data locality.

Prerequisite: COSC 195hc.

Lectures.

*Skilton W 7-10.*

## **COSC 295b**

### **Comparative Languages**

The nature of programming languages; the effect of syntax and semantics of different languages in the correct communication of algorithms; theoretical foundation of structured programming. Recursive routines. Parallel programming. A study and comparison of several programming languages.

Prerequisite: COSC 230hc.

Lectures.

*Hughes M + W 4-5:30.*

## **COSC 381a**

### **Simulation and Simulation Methods**

An introduction to computer techniques for simulating continuous and discrete physical systems. A number of techniques and computer languages will be considered.

Prerequisites: COSC 230hc, one course in statistics.

Lectures, tutorials.

*Hughes Th 7-10.*

## **COSC 398b**

### **Project Management**

This course is concerned with the overall management of a large software project. In the course, the students will be involved as a team in the development of a software project taking on the various roles throughout the life cycle. Lecture topics will include: Analysis and Planning of the Project, overall base Design, Modular Programming, Testing and Final Documentation, also topics in Reliability and Maintainability.

Prerequisite: COSC 230hc and preferably COSC 351hc.

Lectures and tutorials.

*Hughes W 7-10*

## **COSC 399a/b**

### **Software Project**

In this course, the student will be involved in the development of a major software project under the supervision of a member of the Department.

Prerequisite: COSC 230hc and preferably COSC 398hc.

*Staff — times to be arranged individually with instructor.*

## **COSC 422b**

### **Computer Architecture**

Register transfer concepts; computer architecture descriptive systems; simulation of computer systems; micro-programming; consideration and comparison of different types of systems: single- and multi-address computers, general register computers, stack memory computers, microprocessors, micro-computers, mini-computers, multi-programming systems, multi-processing systems, language processors, highly parallel systems, real time systems, time shared systems.

Prerequisite: COSC 221hc.

Lectures, laboratories.

*Thomas T 7-10.*

## **COSC 472a**

### **Introduction to Artificial Intelligence**

Nature of artificial intelligence: architecture of complexity. Heuristic programming. Analysis of solution space searching, pattern recognition, artificial learning, decision making and problem solving. Introduction to various problem areas such as game playing, text recognition, natural language translation, question answering. The practical component of the course involves writing a program exhibiting some rudimentary "intelligence".

Prerequisites: COSC 230hc or permission of instructor.

Lectures.

*Skilton TBS*

## **COSC 473b**

### **Intermediate Artificial Intelligence**

The topics introduced in COSC 472hc are here covered in greater depth by a detailed study of the literature relating to classical Artificial Intelligence programs and designs. Each student will select a project which may be





# 1978/79 Winter Evening Course Offerings

- (i) a program exhibiting non-trivial learning, or
- (ii) a design proposal for an advanced intelligent program, or
- (iii) a survey paper.

Prerequisite: COSC 472hc.

Lectures, seminars.

*Skilton TBS*

## Drama

### DRAM 294

#### The Director's Cinema

Study of the technique, thought and development of selected directors. Students who have completed DRAM 294 may repeat the course with different directors as DRAM 284.

Prerequisite: DRAM 194 or permission of the instructor.

Lectures, seminars. Weekly film programs.

*Leach T 4-5 — Th 4-6 + lab. T 8-11*

### DRAM 311

#### Theatre in Education

The role of theatre in education as a form created and presented for children and youth and as a medium for educational communication. Students will participate in practical projects.

Prerequisite: DRAM 210 or permission of the instructor.

Lectures and workshops. Additional rehearsal time as required.

*Morgan W 5-8 + additional rehearsal time as required.*

### DRAM 324

#### Canadian Cinema

A critical history of the Canadian cinema and a study of the work of several of its major directors.

Prerequisites: DRAM 194, 297 or permission of the instructor.

Lectures, seminars, plus weekly film program.

*Leach W 6-9 + lab. T 6-8.*

### DRAM 491

#### Playwriting.

Theory and practice. Workshops on scripts in progress. Playwright must see

one of his own plays through production.

Prerequisite: permission of the instructor.

Seminars.

*O'Dell M 6-8 + seminar.*

## Economics

### ECON 190

#### Principles of Economics

An introduction to the study of economics. Topics covered include national product determination, price stability, unemployment, money and banking, international trade, and the theory of the firm.

Lectures.

*Soroka M 7-10.*

### ECON 201

#### Microeconomics

Microeconomic analysis, theory of consumer choice, theory of the firm, market structures, general equilibrium analysis and welfare economics.

Prerequisite: ECON 120 or 190.

*TBA M 7-10.*

### ECON 203

#### Intermediate Economic Theory

This course represents a theoretical approach to economic problems at the intermediate level. The principal topics covered are Microeconomics (theories of consumption, production and distribution) and Macroeconomics (national accounts, the level of economic activity, inflation, economic growth and international adjustment problems).

Prerequisite: ECON 190.

Lectures.

*Perkins T 7-10.*

### ECON 307

#### Comparative Economic Systems

A study of alternative economic systems, including centrally directed economies, with emphasis on planning as a substitute for markets.

Prerequisite: ECON 201, or ECON 190 with the permission of the instructor.

Lectures.

*Temkin W 7-10.*

## Education

### EDUC 190

#### Introduction to Education Studies

An introduction to major issues and problems in the organization, staffing and planning of schools and school services today, with special reference to the Niagara peninsula.

Lectures, programmed and supervised study.

*McAuley/Moase W 6-9.*

### EDUC 301

#### The Process of Teaching

An introduction to the study of teacher behaviour through a systematic exploration of the assumptions, educational purposes, teaching strategies, curricular designs and materials, and the social and psychological theory underlying selected models of teaching. The course will involve the student in a critical examination of the alternative patterns upon which teachers may model their behaviour. Students will be required to familiarize themselves with current educational concepts and recent literature in the field.

Lectures, seminars.

*Irvine W 6-9.*

## English

### ENGL 191

#### Introduction to Literature

Critical principles and the forms of literature, with a study of selected works from the 14th century to the 20th.

Lectures, seminar.

*Hornyansky T 7-9 + Th 7-8 + seminar Th 8-9.*

### ENGL 240

#### Restoration and Eighteenth Century

Literature from 1660-1800, Dryden to Crabbe.

Lectures, seminars.

*Lye T 8-10 + seminar.*





# 1978/79 Winter Evening Course Offerings

## ENGL 291

### Canadian Literature in English

Emphasis on poetry and fiction. Chronicles and journalistic, philosophical and political works, examined as individual works of art and as patterns of Canadian experience.

Lectures, seminars.

*MacDonald W 8-10 + seminar.*

## ENGL 391

### History of the Language

The development of the English language from its Anglo-Saxon roots to the present day, working primarily from literary models.

Lectures, seminars.

*Somerville T 4-6 + seminar Th 4-6*

## ENGL 430

### Nineteenth Century Thought

From Burke to Wilde.

Seminars.

*Slade Th 7-10.*

## Extrdepartmental Studies

## EXST 102

### Introduction to the Civilization of Asia

Basic aspects of the civilizations of India, China and Southeast Asia. The course is designed as an introduction for the student who later might be interested in pursuing more advanced work in Asian Studies, as well as for the student with only a general interest in Oriental societies.

*Fic T 7-10.*

## EXST 201

### Two and Three Dimensional Design

A multi-media course to introduce students to the basic principles of design. Print-making, pottery, drawing, painting, batik, collage and other techniques will be introduced.

The course has a studio emphasis.

A \$25.00 extra fee is charged for materials.

Lectures, studio work.

*TBA Sat. 9 a.m. - 12 noon.*

## EXST 290

### Human Sexuality

Examination of physiological and psycho-

social aspects of human sexuality from an historical and cross-cultural perspective. Critical analysis and integration of the aforementioned knowledge in order to increase awareness of attitudes and values about sexuality.

Lectures, seminars.

*Jordan Th 7-9 + seminar.*

## EXST 350

### Art and Religion

Examination of the relationship between works of art (poetry, music, painting and other artefacts) and the element in human experience which lies at the root of religions.

Lectures, seminars.

*Seligman T 6-8 + seminar.*

## Geography

## GEOG 192

### Geography and the Environment

A course dealing with current issues in the physical and human environment of concern to geography. The aim is to demonstrate the practical application of general principles. Although pertinent examples at a world scale will be presented the emphasis will be on the Canadian situation at local, regional, and national levels.

Lectures, seminars.

*Thomson T 6-8 + seminar.*

## GEOG 207b

### (formerly part of GEOG 200)

### Cartography

Introduction to the theory and practice of cartography. Maps as sources of information.

Prerequisite: GEOG 192, or permission of the instructor.

Lectures, laboratory. (Not open to students who have taken GEOG 200.)

*Hughes W 8-10 + lab. W 5-8.*

## GEOG 208a

### (formerly part of GEOG 201)

### Quantitative Methods I

An introduction to the basic mathematical structures underlying geographical problems: space, coordinate systems for

space. Linear equations in up to two independent variables. Non-linear equations: polynomials, power functions, exponential functions. Linearization of non-linear systems for statistical fitting. An introduction to the use of matrix algebra for linear systems. Weekly exercises emphasize applications to typical problems.

Prerequisites: MATH 192 or MATH 197hc/198hc, or other approved Mathematics courses, GEOG 192, or permission of the instructor.

Lectures, seminars. (Not open to students who have taken GEOG 201.)

*Tinkler Th 6-9 + seminar.*

## GEOG 344b

### Urban Geography: Spatial Behaviour

Spatial patterns and processes underlying the behaviour of urban residents including shopping habits, journey-to-work, intra-urban migration; ghetto formation and leisure activities.

Prerequisites: GEOG 190, 203hc, or permission of the instructor.

Lectures, seminars.

*Gayler W 6-8 + seminar.*

## GEOG 353b

### Regional Geography of Africa

Selected aspects of the regional geography of Africa.

Prerequisites: GEOG 190, 192, and four half courses or equivalent in Geography, or permission of the instructor.

Lectures, seminars.

*Thompson Th 6-8 + seminar.*

## GEOG 358a

### Cultural Geography

The cultural environment. Transmission of culture. Spatial aspects of human activities. Developing societies. Cultural problems in the modern world.

Prerequisites: GEOG 190, 202hc, 203hc, or permission of the instructor.

Lectures, seminars.

*Meeker M 6-8 + seminar.*





# 1978/79 Winter Evening Course Offerings

## Geology

### GEOL 190

#### Introduction to Geology

The principles of geological thought; geology as a science; geological processes; major earth structures; geological time; fossils and their significance; applications of geology for the benefit of man; the relationship of the earth and man's physical environment to human life styles.

Lectures, laboratories and local field trips.

This course is intended for students in the humanities and social sciences who lack science and mathematics beyond grade 11, but students demonstrating exceptional performance in the course may, at the discretion of the Department, proceed to Year II.

*Grant W 7-9 + lab. 9-11.*

### GEOL 311a

#### Geochemistry

Origin of elements; abundance of elements in crustal rocks; general geochemistry of the lithosphere, hydrosphere, atmosphere, biosphere: an introduction to organic geochemistry.

Prerequisites: GEOL 212hc; CHEM 190.

Lectures, laboratories.

*Jefferies T 7-9 + lab. Th 7-10.*

### GEOL 312b

#### Landscape Geochemistry

The interaction of the four geospheres during geological time; soil formation; the fundamental principles of landscape geochemistry; applications, principles of landscape geochemistry; in mineral exploration; geoepidemiology and environmental studies.

Prerequisite: GEOL 311hc.

Lectures, laboratories and local field trips.

*Jefferies T 7-9 + lab. Th 7-10.*

## Germanic & Slavic Studies

### GERM 100

#### Language (Introductory)

Learning of basic skills, conversational patterns, reading ability. Emphasis is on the spoke language, language laboratory, films, records, tapes.

Language laboratory.

*TBA T 6-10.*

### GERM 190

#### Language and Literature (Intermediate I)

Intermediate level. Conversational and written language skills. Introduction to 20th century German literature. Language laboratory, films, tapes, recordings. Lectures and language laboratory.

*TBA Th 6-10.*

### GERM 200

#### Language (Intermediate II)

Intensive study of the present-day German language and cultural background with the aim of increasing the level of the skills of communicating.

Lectures with extensive use of the language laboratory.

*Schutz T + Th 4:30-6.*

### LING 190

#### Introduction to Linguistics

Introduction to the study of language and language use. Concepts related to disciplines in the humanities, social sciences and education will be discussed. The course is not limited to any specific language; it deals with questions common to all tongues. Open to students in any year of study.

*Richards Th 6-9.*

## History

### HIST 100

#### The Past Hundred Years

An exploration of the past hundred years in both Europe and North America with reference to the social, economic, political and ideological developments which have shaped the modern world.

Lectures, seminar.

*Goodspeed M 7-9 + seminar.*

### HIST 190

#### Mediaeval Civilization

A survey, from the fourth to the fourteenth century, of the Byzantine, Islamic and Western European civilizations, which evolved out of the Roman Empire, with emphasis on the "emerging nations" of England, France and Germany. Slides of surviving buildings, artifacts and manuscripts are used to illustrate developments in architecture, crafts, costume, weaponry and everyday life.

Lectures, seminar.

*Nau T 7-9 + seminar.*

### HIST 220

#### Early Modern Britain

The British Isles from the mid-fifteenth to the early eighteenth century, emphasizing the emergence of the modern centralized state, the impact of the Reformation, the achievements of the Elizabethan Age, and the origins and effects of revolution and civil war in the seventeenth century.

Lectures, seminar.

*Wolff W 7-9 + seminar.*

### HIST 290

#### Military History

A study of the evolution of military strategy, tactics, logistics and weapon systems from Hannibal to the end of the nineteenth century, with emphasis on the campaigns of Hannibal, Caesar, Gustavus Adolphus, Marlborough, Napoleon, Wellington and von Moltke the Elder.

Lectures, seminar.

*Goodspeed Th 7-9 + seminar.*

### HIST 390

#### Russia from 1801 to 1953.

An examination of the emergence of imperial Russia as a modern state, the revolution, the triumph of communism and the consolidation and rise of Soviet Russia.

Lectures, seminar.

*Sanders T 7-9 + seminar.*

### HIST 391

#### Empire to Commonwealth

A comparative survey of the development of the British Empire and Commonwealth





# 1978/79 Winter Evening Course Offerings

in the nineteenth and twentieth centuries, with emphasis on Canada, Australia, New Zealand and South Africa.

Lectures, seminar

*Turner M 6-8 + seminar.*

## **HIST 414**

### **Post-Confederation Canada**

An analysis of social, economic and political developments in Canada since Confederation.

Seminar.

*Dirks Th 7-10.*

## **HIST 430**

### **The Third Reich as a Problem in German History.**

A search for the roots of National Socialism in the social, cultural and political development of Germany in the late nineteenth and early twentieth centuries.

Seminar.

*Taylor W 7-10.*

## **Mathematics**

### **MATH 160a**

#### **Mathematics for Administrative Studies**

Elementary probability with finite sample spaces, counting theorems, notation and operations of set theory, applications of probability (independent events, binomial experiments, elements of decision theory, Bayes theorem); properties of the real number line, absolute values, solution sets of equalities and inequalities, elements of linear programming; arithmetic and geometric series, interest, annuities, bonds, mortgages, sinking funds; relations, functions, and graphing; polynomial logarithmic, and exponential functions; introduction to linear algebra-systems of linear equations, vector and matrix notation, solution by elimination, determinants.

Prerequisite: Permission of the instructor. Exclusion: May not be taken for credit after MATH 150.

Lectures, tutorial.

*Chang T 7-10 + tutorial.*

### **MATH 192**

#### **Introductory Statistics**

Designed for students of Geography, Physical Education, Psychology, Sociology and Urban Studies.

Types of scales; frequency distribution, mean, mode, median, and measures of dispersion; elements of probability theory, probability distributions, non-parametric tests; Normal, t, F and  $\chi^2$ , means and variance tests; analysis of variance, correlation and regression.

Prerequisite: Grade 11 mathematics or permission of the instructor.

Lectures, tutorials.

*Doherty T 7-10 + tutorial.*

### **MATH 193a**

#### **Differential Calculus for Science Students**

Limits, continuity, differentiation; elementary functions; implicit differentiation, parametric differentiation, repeated differentiation, tangents and normals, maxima and minima, curve-tracing; differentials and simple theory of approximation and error; simple integration theory, and applications.

Prerequisite: Two Grade 13 mathematics courses or MATH 150

Exclusion: MATH 100.

Lectures, tutorial.

*TBA T 7-10*

### **MATH 194b**

#### **Integral Calculus for Science Students**

Systematic integration and definite integrals, with applications. Partial differentiation, simple extremal problems, Lagrange multipliers, simple first-order differential equations; series and Taylor series; introduction to determinants and matrices; complex numbers and DeMoivre's theorem; simple vector algebra; double and triple integrals, including applications and transformation of coordinates.

Prerequisite: MATH 193hc.

Exclusion: MATH 100.

Lectures, tutorial.

*TBA T 7-10.*

### **MATH 197b**

#### **Differential and Integral Methods**

Designed for students of Administrative Studies, Biological Sciences, Economics, Urban and Environmental Studies and Geological Sciences.

Elementary functions, particularly the power function, the logarithm, and the exponential; approximation to the area under a curve; the definite integral; the derivative; techniques of differentiation; maxima and minima; integration by substitution and by parts; use of integral tables; partial differentiation; simple differential equations; numerical methods. Prerequisite: Grade 12 mathematics or permission of the instructor.

Exclusions: MATH 100, 193hc/194hc.

Lectures, tutorial.

*Chang T 7-10 + tutorial.*

### **MATH 198a**

#### **Basic Statistical Methods**

Designed for students of Administrative Studies, Biological Sciences, Economics, Urban and Environmental Studies, Geological Sciences and Physical Education. Descriptive statistics; probability; estimation; hypothesis testing; non-parametric tests; Normal,  $\chi^2$ , t and F distributions; means and variance tests; regression and correlation.

Prerequisite: Grade 12 mathematics or permission of the instructor.

Exclusions: MATH 192, 296.

Lectures, tutorial.

*Mayberry T 7-10 + tutorial.*

### **MATH 199a**

#### **Computing and Numerical Methods**

Lectures identical with those of Computer Science 193hc, plus an hour a week devoted to the discussion of some elementary numerical techniques (roots of transcendental equations and polynomial equations, interpolation, quadrature). Co-requisite: Mathematics 193hc/194hc or Mathematics 100.

Exclusion: COSC 193hc.

Lectures, tutorial.

*Cohen/Thomas W 7-10 + tutorial.*





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## **MATH 260b**

### **Introductory Operations Research**

Designed for students in Administrative Studies.

Elements of decision theory: decision tree, utility, modeling of real problems. Decisions under constraints. Linear Programming: examples, applications, simplex method. Optimization: pricing decisions, lot-size decisions, make-or-buy decisions. Parameter estimation: least-squares, maximum likelihood. Pure competition and the two-player zero-sum game: the minimax theorem. Elements of Markov chains.

Prerequisite: Mathematics 192 or 198hc or equivalent backgrounds in statistics, and Mathematics 193hc or 197hc.

Lectures, tutorial.

*Mayberry T 7-10 + tutorial.*

## **Music**

### **MUSI 100**

#### **Music Today**

Survey of developments in Jazz, Rhythm and Blues, Rock, and popular music of today's culture.

Lectures, listening assignments.

*Mancuso, T 6:30-9:30 + listening assignments.*

### **MUSI 182**

#### **University Chamber Choir I**

Study and performance of a wide and varied choral repertoire.

Prerequisite: by audition.

Extra rehearsal time as required.

*Staff W 6-9.*

### **MUSI 274**

#### **Music for the Classroom Teacher II**

Basic musicianship; choral repertoire and technique; melody and harmony in the classroom.

Prerequisite: MUSI 190 or 194, or by audition.

Lectures.

*Staff M 6-9.*

### **MUSI 282**

#### **University Chamber Choir II**

Choral technique, repertoire and style. A continuation of choral training.

Prerequisite: any first year music course, and by audition.

Extra rehearsal time as required.

*Staff W 6-9.*

### **MUSI 290**

#### **Materials of Music II**

Harmony, counterpoint analysis and aural training; keyboard harmony.

Prerequisite: MUSI 190.

Lectures, seminar, University Singers; keyboard tutorial.

*Ware T 6-9 + seminar.*

### **MUSI 350**

#### **History and Literature of Music (Romantic Period and the Twentieth Century)**

Musical style and analysis of representative works. Listening assignments.

Prerequisite: MUSI 250 and 290.

Lectures, Introduction to Contemporary Music.

*Ware Th 6-9.*

### **MUSI 382**

#### **University Chamber Choir III**

Further study in choral technique and repertoire; small and large ensembles.

Prerequisites: any second year music course, and by audition.

Extra rehearsal time as required.

*Staff W 6-9.*

## **Philosophy**

### **PHIL 190**

#### **Introduction to Philosophy**

With the help of texts from great philosophers in the East and West, this course aims at an awareness of the sense of philosophizing today.

Lectures, seminars.

*Malone/Nota T 7-9 + seminar.*

### **PHIL 202**

#### **The History of Western Philosophy: Early Modern Philosophy**

The origins of modern philosophy from the 17th to the 19 centuries (Descartes to Kant).

Lectures.

*Husain/Nathan M 7-9 + seminar.*

### **PHIL 208**

#### **Introduction to Chinese Philosophy**

A socio-historical survey of the development of Chinese thought from Confucius and Lao Tzu to Mao Tse-tung, with special emphasis on philosophical, ideological problems of the transformation of traditional Asia into modern Asia under the challenge of Western civilization.

*Seligman W 7-10.*

### **PHIL 312**

#### **The Philosophy of Love**

This course will deal with: (1) representative philosophies of love throughout the history of philosophy, such as those of Plato, Augustine, Malebranche and Scheler; (2) the role of love in the thought of such writers as Dante, Petrarch, Goethe and Byron; and (3) the phenomenon of love as we see it.

Lecture and seminars.

*Goicoechea M 6-7:30 + seminar.*

### **PHIL 321**

#### **Critical Study of a Classical Philosophy**

The theme of this course varies from year to year. This year it will be concerned with Plato.

Lectures, seminars.

*Hansen Th 7-9 + seminar.*

### **PHIL 401**

#### **Philosophy of History**

Starting from the praxis of historical science, an effort is made to discover in this praxis an implicit philosophy of history. Discussion will be held between historians and philosophers, especially existentialists, about meaning in history and the value of human sciences.

Seminars.

*Hansen W 5-8.*





# 1978/79 Winter Evening Course Offerings

## **PHIL 413**

### **Critical Study of a Modern European Philosophy**

The topic of this course varies from year to year. This year, Kierkegaard will be considered.

*Goicoechea T 6-7:30 + seminar.*

## **Physical Education**

### **PHED 204a**

#### **Scientific Basis of Physical Education**

The course is designed to provide a base of knowledge which is applicable to human motion. The anatomical bases of movement — skeletal, nervous and muscular systems — will be dealt with to develop an understanding of human movement. Anatomically the course will look at the skeletal structure, joint actions and the interrelationship of aggregate muscle groups. Articular and muscular injuries will be dealt with where they apply. In addition the growth and development of anatomical systems from birth to late teens will be studied.

Prerequisite: PHED 190.

Lectures, laboratory.

*Davis T 7-9 + lab.*

### **PHED 293a**

#### **Community Recreation Programs for Children**

An elective course designed to introduce the student to the community education concept and its potential as a delivery service for coordinated and cooperative community recreation programs. Emphasis will be on helping students develop a clear understanding of the philosophy of recreation with a view towards the development of specific community recreation programs.

Prerequisite: PHED 190.

Lectures.

*Christie M 7-9 + seminar.*

## **Physics**

### **ASTR 100**

#### **Introduction to Astronomy**

An introductory course in astronomy, designed for both non-science and science students. Topics in the first term include a description of the appearance of the night sky and the properties of the sun and stars. The second term presents a description of the planets of the solar system, galaxies, history of astronomy and the properties of some unusual astronomical objects such as pulsars and black holes.

Lectures, Field Trips and seminars; these will consist of a trip to an astronomical observatory, several nights of observing stars, and some seminars.

*Moore/Black/Plint/Kidson T 7-10.*

## **Politics**

### **POLI 190**

#### **Introduction to Politics**

An introduction to the basic concepts and institutions of political systems and to the various approaches used to study these systems. Topics include: ideologies such as liberalism, conservatism and communism; institutions of government including legislatures, bureaucracies and political parties; public opinion and voting; classes, elites and revolution.

Lectures, seminars.

*Matheson W 7-9 + seminar.*

### **POLI 230**

#### **Law and Legal Institutions**

An introduction to legal processes and an examination of the major branches of the law with particular reference to Canada.

Lectures.

*Gullett W 7-10.*

### **POLI 299**

#### **Systematic Political Inquiry**

An examination of methods and techniques for studying politics. Students will be introduced to some of the theoretical formulations and quantitative methods which are widely used in contemporary

political science. No background in methodology or statistics is required.

Lectures, seminars.

*Carroll Th 7-9 + seminar.*

### **POLI 352a**

#### **Environmental Policy, Law and Administration**

An examination of public policies, laws and agencies for the protection and management of the Canadian environments, both natural and man-made.

Lectures, seminars.

*Hull M 7-9 + seminar.*

### **POLI 360b**

#### **Problems of Political Development**

An examination of problems raised by, and the factors affecting, the processes of political development in new nation-states.

Lectures, seminars.

*Hull M 7-9 + seminar.*

### **POLI 422a**

#### **Foreign Policies of the Great Powers**

An examination of factors shaping the foreign policies of selected major powers along with the techniques adopted to achieve policy goals.

Prerequisite: POLI 220, or permission of the instructor.

Seminar.

*Sewell T 7-10.*

### **POLI 424b**

#### **International Politics of Europe**

A study of the European Community which will consider the international relations of Community participants, and the Community itself as an emerging factor in world politics. Background in postwar European history, the economics of common markets, and comparative politics of Western European systems would be helpful.

Seminar.

*Sewell T 7-10.*





# 1978/79 Winter Evening Course Offerings

## Psychology

### PSYC 190

#### Introduction to Psychology

Basic concepts and contemporary issues in psychology with special attention to learning, physiological, developmental, clinical and social psychology. (Prerequisite to all courses in Psychology.)

Lectures, seminars.

*Carlsen/Glavin W 7-9 + seminar.*

### PSYC 230

#### An Introduction to Social Psychology

Theories, research and issues of contemporary social psychology; topics such as person perception, group structure and dynamics, aggression, altruism, social attitudes, conformity, obedience and prejudice.

Lectures, seminars.

*Sadava T 7-9 + seminar.*

### PSYC 293

#### History and Systems

An examination of central theoretical issues in psychology from an historical perspective; topics include: the doctrine of associationism, constructivist approaches to psychology, the influence of evolutionary theory, classical introspectionism, behaviourism, the Gestalt movement, psychoanalysis, the nature of controversy in psychology.

Lectures, seminars.

*Benjafield Th 7-9 + seminar.*

### PSYC 320

#### Psychopathology

Major theories which have been developed to explain aberrant behaviour are considered and evaluated. Emphasis is upon integration of contemporary research findings with theory in formulating a nosological system and bisocial model of psychopathology.

Lectures, seminars.

*Pomeroy M 7-9 + seminar.*

### PSYC 340

#### Psychological Research

A laboratory and lecture course in which

students are exposed to research methods in several areas of psychology; emphasis is placed on developing the student's capacity to evaluate psychological hypotheses through participation in group and individual research projects.

Prerequisite: PSYC 223.

Lectures, laboratories.

*Ogilvie T 7-9 + lab. W 7-9*

### PSYC 397

#### Personality Assessment and Research

Relationships between theory and research in the field of personality; the approaches of Freud, Kelly, Rogers, Cattell and contemporary social learning theorists will be emphasized.

Lectures, seminars.

*Adams-Webber W 7-9 + seminar.*

### PSYC 403

#### Advanced Seminar in Learning, Thinking, Cognition and Consciousness

Special topics in these areas will be discussed each year.

Lectures, seminars.

*Segalowitz T 7-9 + seminar.*

### PSYC 490

#### Honours Seminar

A comprehensive look at the fundamental issues in the various areas of psychology, with each faculty member responsible for one specific area.

Lectures, seminars.

*Staff W 4-6 + seminar.*

## Romance Studies

### FREN 100

#### Language (Introductory)

Essentials of grammar, emphasis on idiomatic expression. Extensive practice in reading, writing and speaking.

*McEwen T 7-10 + lab.*

### FREN 397

#### Literature 17th Century

The ideal of French classicism. Assessment of conflicting religious, philosophical artistic and moral currents. Prescribed

texts: Corneille (*Le Cid*, *Cinna*); Molière (*L'Ecole des femmes*, *Le Misanthrope*); Racine (*Britannicus*, *Phèdre*); La Fontaine (*Les Fables*); Mme de Lafayette (*La Princesse de Clèves*); Saint-Simon (*Mémoires*).

*Rosmarin M 7-10.*

### FREN 398

#### 19th Century Poetry and Theatre

Romanticism, Symbolism and Decadence. Prescribed texts: Lamartine (*Méditations*); Vigny (*Poésies choisies*, *Chatterton*); Musset (*Les Caprices de Marianne*); Hugo (*Hernani*); Baudelaire (*Les Fleurs du mal*); Verlaine (*Poèmes saturniens et Fêtes galantes*); Labiche (*Le Voyage de M. Perrichon*).

*Bismuth W 7-10.*

### ITAL 100

#### Language (Introductory)

Acquisition of reading and oral skills, elementary grammar. Conversation and composition.

*Iozzo M 7-10 + lab.*

### ITAL 190

#### Language and Literature

Composition, conversation. General background of Italian literature from the Middle Ages to the present. Selected modern texts.

*DeLuca M 7-10 + lab.*

### ITAL 210

#### 19th Century Novel and Lyric

Genesis and evolution of the novel. Prescribed texts: Manzoni (*I Promessi Sposi*); Fogazzaro (*Piccolo mondo antico*); Verga (*I Malavoglia*). Evaluation of the poetry of G. Leopardi (*Canti*).

*Iozzo T 7-10.*

### ITAL 230

#### Culture and Civilization (given in English)

A survey of the artistic heritage of Italy and of the forces — intellectual, political and social — that have shaped the mentality and way of life of the Italians from the Middle Ages to the present day. Selected texts, slides, records and films. Lectures and seminars.

*Federici/Iozzo/DeLuca W 7-9 + seminar.*





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## SPAN 100

### Language (Introductory)

Essentials of grammar, emphasis on idiomatic expression. Conversation and elementary composition.

*Fernandez TH 7-10 + lab.*

## SPAN 190

### Language and Literature

Practice in speaking, reading and writing, composition, self-expression. General background of Spanish literature.

*Gonzalez Th 7-10 + lab.*

## SPAN 240

### Spanish-American Culture and Civilization (given in English)

Survey of historical, social and political developments from pre-Columbian times to the present day. Selected texts, slides and tapes.

*Hildebrandt M 7-10.*

## Sociology

## SOCI 191

### Issues in Canadian Society

Introduction to concepts, theories and research perspectives in Sociology, Anthropology and Social Psychology as applied to the analysis of major issues in Canadian society. Substantive topics will include such issues as ethnic group relations, Canadian identity, social stratification and rural and urban problems.

Lectures, seminars, 3 hours per week. (Not open to students who have taken or are taking another introductory course in Sociology including SOCI 120, SOCI 190 or SOCI 246.)

*Pardo T 7-9 + seminar.*

## SOCI 220

### Theories in Social Relations

An examination of major contemporary theoretical formulations in the areas of conceptual functioning and symbol systems, including language, conformity and deviance including norms and reference groups; human organization including groups, formal hierarchies and social stratification; and socialization as a

continuing process.

Seminars.

*Ward W 6:30-9:30.*

## SOCI 296

### Formal Organizations

Basic concepts, theory, research and methodology from the various behavioural sciences relevant to the organization and functioning of goal-oriented social systems (business, government agencies, universities, etc.). Issues basic to such social systems (membership selection, socialization, motivation, leadership, power and authority, communications, policy formulation and decision making, organizational change, effectiveness and efficiency) will be discussed from a theoretical and practical perspective.

Seminars, laboratory.

*Freedman T 7-10 Term 1*

*Yarmoshuk T 6-8 + lab 8-10 Term 2*

## SOCI 332b

### Selected Research Topics in Sociology

The examination of research on selected topics in sociology; field work based on a review of the literature. This course will be offered as a complement to substantive courses such as SOCI 216hc, Social Inequality; SOCI 290hc, The Family; SOCI 298hc, Society and Learning. May be taken twice for credit.

Lectures, field work.

*Watson Th 7-9 + seminar.*

## SOCI 390

### Advanced Social Theory and Methodology

An examination of the objectives and processes of theory construction and research design with special emphasis on relating systematic theory to the development of research strategies. Theoretical variables and empirical phenomena are examined including the use of gaming.

Prerequisite: SOCI 220 and 230, or permission of the instructor.

Seminars.

*Ward Th 7-10.*

## SOCI 421

### History of Social Scientific Thought

Investigation of the central ideas of social sciences, their intellectual origin and their change over time. The works of major classic writers, such as Marx and Freud, will be examined.

Lectures, seminars.

*Berkowitz T 7-9 + seminar.*

## SOCI 431

### Data Analysis

Advanced methods for the measurement of variables and the analysis of data in the social sciences with special emphasis on the implications of various theoretical categories of data, multiple approaches to the estimation of reliability and validity, and the use of computer-assisted analytic procedures.

May be taken concurrently with SOCI 390.

Seminars, laboratory.

*Ward T 6-9.*

## Urban and Environmental Studies

## UEST 190

### Canadian Urban and Environmental Issues

An introduction to current Canadian issues in urban and environmental affairs such as legal constraints, pollution, resource management conflicts, northern pipelines, hydro-electric developments, urban planning, sprawl and citizen participation. An inter-disciplinary approach will be taken, pointing to the contributions separate disciplines can make to the solution of these practical problems based upon their banks of principles and methodologies.

Lectures, seminars.

*Banfield/Beltrano W 7-9 + seminar.*

## UEST 296

### Planned Change, Urban Systems Analysis and Urban Indicators

Applications of systems theory to urban analysis; urban institutions as systems of cybernetic interaction: planned social and physical change; models of urban growth





# 1978/79 Winter Evening Course Offerings

and decline; change growth and deviance; functional and intentional models of urban change; introduction to urban measurements and social indicators.

**Prerequisite:** Completion of Year I requirements for Urban and Environmental Studies.

Lectures, seminars.

*Hoover M 7-9 + seminar.*

## UEST 325b

### **Pollution: Effects and Consequences**

Cycles of appearance and disappearance of organic and inorganic pollutants in the environment; biological effects of pollutants; metabolism of pollutants; chemical transformations; patterns of distribution; ways of altering turnovers and environmental levels.

**Prerequisites:** BIOL 190, CHEM 190 or GEOL 190.

Lectures, seminars.

*Faculty from co-operating Science departments Th 7-9 + seminar.*

## UEST 352a

### **Policy and Planning Research Methods**

Behavioural science methods useful in policy and planning research, including exploratory-descriptive studies, evaluation research, program formulation, forecasting and social impact assessment; methods potentially relevant to research in both urban and environmental dimensions of human behaviour.

**Prerequisites:** MATH 192, or equivalent, or permission of the instructor.

Lectures and seminars.

*Beltrano Th 7-9 + seminar.*

## UEST 396

### **Inter-Disciplinary Perspectives in Urban and Environmental Studies**

Problems and opportunities for planned urban and environmental change, with special emphasis upon a specific issue of current significance to the urban and regional environment of the Niagara peninsula.

**Prerequisite:** Completion of Year II.

Lectures, seminars.

Collaborating teaching group includes faculty from Biological Sciences, Chemis-

try, Economics, Geography, Geological Sciences, Politics and Sociology.

*T 7-9 + seminar.*

## Winter Evening Courses Legend

a — half course offered during first half of session

b — half course offered during second half of session

T.B.A. — instructor to be announced

T.B.S. — time/room to be scheduled

## Winter Evening Session

September 11 - December 8 — "a" courses

January 3 - April 10 — "b" courses

September 11 - April 10 — full courses

December 9 - 22 — Mid-year (Progress) examinations for courses numbered 100-199. Final examinations for Fall Term half courses

April 17 - May 2 — Final examinations.

## Planning Your Retirement

The Regional Niagara Pre-Retirement Council, in co-operation with the Office of Part-time Programs offers a course in Planning Your Retirement.

If you are thinking of retiring in the next few years, now is the time to start thinking of the many changes that will take place in your lifestyle. Our resource people, all well qualified, provide information and advice on such matters as

- What activities you should consider
- Federal and Provincial benefits
- The handling of your money (budgets, etc.)

- Legal matters, including consumer protection

- Where to live (type of locality and house, etc.)

- Taking care of your health

- A philosophy of life (the deeper aspects of living)

- Senior citizens

## Course details:

**When:** the course is held either Tuesday or Thursday evenings for 9 sessions of 2 hours each.

**The Fall courses** begin Tuesday, September 26 or Thursday, September 28.

**The Winter courses** begin Tuesday, January 16 or Thursday, January 18.

**The Spring courses** begin Tuesday, April 3 or Thursday, April 5.

**Where:** The course is held at Brock University, Main Campus, St. Catharines.

**Fees:** \$15.00 single, \$20.00 per couple.

Please make cheques payable to: Regional Niagara Pre-Retirement Council.

**How To Apply:** You may apply in person or by letter to: Office of Part-time Programs, Room Thistle 264, Brock University, St. Catharines, Ontario L2S 3A1.

We require your name, address (include postal code), telephone number and preferred evening for the course.

**For information:** Call the Office of Part-time Programs (416) 684-7201, Extension 477.





# 1978/79 Off-Campus Winter Evening Course Offerings

## Off-Campus Teaching Centres

While classes usually meet on the main campus, more and more off-campus teaching centres are being opened in neighbourhood locations close to your home or business. The University is pleased at the response given last year to its efforts to bring its resources to the community.

The following courses will be offered off-campus during the 1978/79 Winter Evening Session.

### St. Catharines Grantham United Church CLAS 196

Greek and Roman Myths and Religions  
Theories of mythology; major myths and their expression in ancient literature; the role of myth in Greek and Roman thought. Stages of Greek and Roman religion, including the mysteries which influenced the early Church Fathers.

*Booth M, W, F 10 a.m. - 11 a.m.*

### Niagara-on-the-Lake Public Library DRAM 194

Introduction to Film Criticism  
The history of film and principles of criticism from the early silents to the modern experimental.

Lectures, seminars.

*Grant T, Th 7-10*

### Niagara Falls Public Library ENGL 191

Introduction to Literature  
Critical principles and the forms of literature, with a study of selected works from the 14th century to the 20th.

Lectures and seminars.

*Crick T 7-10.*

### Grimsby Public Library HIST 190

Mediaeval Civilization  
A survey, from the fourth to the fourteenth century, of the Byzantine, Islamic and Western European civilizations, which evolved out of the Roman Empire, with emphasis on the "emerging nations" of England, France and Germany. Slides of surviving buildings, artifacts and

manuscripts are used to illustrate developments in architecture, crafts, costume, weaponry and everyday life.

Lectures, seminar.

*TBA M 7-10*

### Fort Erie Secondary School PHIL 190

Introduction to Philosophy  
With the help of texts from great philosophers in the East and West, this course aims at an awareness of the sense of philosophizing today.

Lectures, seminars.

*Goicoechea Th 7-10.*

### St. Catharines General Motors Plant No. 2 PSYC 190

Introduction to Psychology  
Basic concepts and contemporary issues in psychology with special attention to learning, physiological, developmental, clinical and social psychology. (Prerequisite to all courses in Psychology.)

Lectures, seminars

*Glavin/Lordahl M 8 am - 11 am or T 4 pm - 7 pm.*

### Welland Public Library SOCI 191

Issues in Canadian Society  
Introduction to concepts, theories and research perspectives in Sociology, Anthropology and Social Psychology as applied to the analysis of major issues in Canadian society. Substantive topics will include such issues as ethnic group relations, Canadian identity, social stratification and rural and urban problems.

Lectures, seminars. (Not open to students who have taken or are taking another introductory course in Sociology including SOCI 120, SOCI 190 or SOCI 246.)

*Tomovich M 7-10.*





# 1979 Tentative Spring Evening Session Course Offerings

## Planning Ahead to 1980

To assist part-time students in their long-term program planning, the University has prepared a list of courses which each department intends to offer in the 1979 Spring Evening, Summer Day and 1979/80 Winter Evening sessions. The lists are highly tentative, but do represent the present efforts of the departments to meet the needs of part-time students. The offering of a course is always subject to adequate enrolment and to availability of faculty. Those departments not listed are unable at present to make firm commitments regarding 1979 course offerings.

## Administrative Studies

- 190 Introduction to Management
- 250 Accounting
- 310 Law and Legal Institutions (POLI 230)
- 320 Public Administration (POLI 351)
- 321 Marketing
- 350 Intermediate Financial Accounting
- 391 Financial Planning, Analysis and Control

## Biological Sciences

- 120 Biology and Social Change or 125 Biology and Man
- 371hc Ontario Universities Field Biology Course
- 372hc Ontario Universities Field Ecology Course

## Chemistry

- 490 Research Project
- 491 Thesis

## Classics

- 210hc Fifth-century Athens
- 211hc Rome under the First Caesars
- 430 Roman Law
- Lati 220 Augustan Poetry

## Computer Science

- 230hc Data Structures
- 399hc Software Project

## Economics

- 190 Principles of Economics
- 201 Microeconomics
- 290 Economic Statistics

## Education

- 190 Introduction to Education Studies
- 200 Curriculum Theory and Design

## English

- 191 Introduction to Literature
- 299 English Area Studies
- 300 The Novel
- 360 American Literature and World War I

## Extrdepartmental Studies

- 191 History of Fine Arts
- 192 Women's Studies
- 299 Society and Culture of South-East Asia

## Geography

- 203hc Principles of Urban Geography
- 205hc The Earth's Natural Landscape
- 308hc Quantitative Methods II
- 376hc Introduction to Regional Analysis  
hc Urban Geography TBA

## Germanic and Slavic Studies

- Germ 190 Language and Literature (Intermediate I)
- Germ 195 Culture and Civilization of Central Europe
- Russ 195 Culture and Civilization

## History

- 190 Mediaeval Civilization
- 294 Canada Since 1791
- 320 Modern Britain

## Mathematics

- 160hc Mathematics for Administrative Studies
- 192 Introductory Statistics
- 197hc Differential and Integral Methods
- 198hc Basic Statistical Methods
- 260hc Introductory Operations Research

## Music

- 340 Electronic Music II
- 374 Music for the Classroom Teacher III
- 450 History and Literature of Music (Mediaeval and Renaissance)

## Physical Education

- 203hc Movement Seminar

## Physics

- 490, 491 Research Project

## Politics

- 212 The Government and Politics of Canada
- 230 Law and Legal Institutions
- 325hc Theories of International Relations
- 326hc International Law
- 351 Public Administration
- 416hc Cross-National Analysis
- 422hc Foreign Policies of the Great Powers

## Psychology

- 210 Child Psychology
- 223 Research Design
- 299 Drugs and Behaviour
- 300 Psychology of the Exceptional Child





# 1979 Tentative Summer Day Session Course Offerings

## Romance Studies

- Fren 190** Language and Literature  
**Fren 394** Literature, History as a  
Literary Genre  
**Fren 398** 19th Century Poetry and  
Theatre  
**Ital 190** Language and Literature  
**Ital 200** Language (Intermediate)  
**Span 100** Language (Introductory)

## Sociology

- 190** Man and Society  
**191** Issues in Canadian Society  
**296** Formal Organizations

# 1979 Tentative Summer Day Session Course Offerings

## Biological Sciences

- 371hc** Ontario Universities Field Biology  
Course  
**372hc** Ontario Universities Field Ecology  
Course  
**490** B.Sc. (Honours) Thesis  
**491** Literature Research and Seminar  
**492** Library Research Project

## Chemistry

- 490** Research Project  
**491** Thesis

## Classics

- 190** Classical Civilization  
**470** Archaeological Practicum in Cyprus

## Computer Science

- 399hc** Software Project

## Economics

- 203** Intermediate Economic Theory  
**301** International Economics

## Education

- 350** Focus on Early Childhood  
Education  
**495** Advanced Project in Educational  
Studies

## English

- 221** The Sixteenth Century  
**291** Canadian Literature in English

## Extrdepartmental Studies

- 203** Painting  
**260** Old Testament Studies

## Geography

- 207hc** Cartography  
**208hc** Quantitative Methods I  
**314hc** Climates of Canada  
**351hc** Regional Geography of Canada

## Geological Sciences

- 190** Introduction to Geology

## Germanic and Slavic Studies

- Germ 100** Language (Introductory)

## History

- 100** The Past Hundred Years  
**391** Empire to Commonwealth

## Physics

- 490, 491** Research Project

## Politics

- 190** Introduction to Politics  
**220** International Politics  
**242hc** The Government and Politics of  
China  
**260hc** the Government and Politics of  
India  
**336hc** Comparative Parliamentary  
Systems  
**360hc** Problems in Political Development

## Psychology

- 230** An Introduction to Social  
Psychology  
**235** Motivation  
**297** Experiential Psychology

## Romance Studies

- Fren 100** Language (Introductory)  
**Ital 100** Language (Introductory)  
**Span 230** Spanish Culture and  
Civilization





# 1979/80 Tentative Winter Evening Course Offerings

## Administrative Studies

- 190 Introduction to Management
- 211hc Organizational Communications
- 250 Accounting
- 310 Law and Legal Institutions (POLI 230)
- 321 Marketing
- 330hc Production Management
- 331hc Operations Management
- 350 Intermediate Financial Accounting
- 351hc Management Accounting
- 352 Auditing
- 360 Research in Organizations
- 391 Financial Planning, Analysis and Control
- 403hc Capital Markets
- 404hc Investments
- 411hc Administration Through EDP
- 422hc Marketing Research
- 423hc Marketing Communications
- 451hc Problems of Taxation
- 452hc Advanced Accounting
- 453hc Advanced Accounting Theory
- 464hc Macro Labour Relations

## Biological Sciences

- 120 Biology and Social Change
- or 125 Biology and Man
- 190 Fundamental Concepts of Modern Biology
- 201 Principles of Molecular and Cellular Biology
- 326 Developmental Biology

## Chemistry

- 190 Introduction to Modern Chemistry
- 411hc Industrial and High Temperature Chemistry
- 412hc Chemical Microscopy

## Classics

- 190 Classical Civilization
- 196 Greek and Roman Myths and Religions
- 290 Greek History
- 292 Greek and Roman Epic Poetry
- 293hc Field Archaeology
- 297hc Classical Archaeology
- 397hc Greek Sanctuaries
- 398hc The Art and Archaeology of Cyprus
- 420 Comparative Indo-European Linguistics

## Computer Science

- 150hc Computers in Society
- 195hc Structured Programming with PL/I
- 196hc Commercial Programming
- 230hc Data Structures
- 295hc Comparative Languages
- 342hc Database Management Systems
- 351hc Introduction to Systems Analysis
- 399hc Software Project
- 472hc Introduction to Artificial Intelligence
- 473hc Intermediate Artificial Intelligence

## Economics

- 190 Principles of Economics
- 202 Macroeconomics
- 302 History of Economic Thought

## Education

- 200 Curriculum Theory and Design
- 350 Focus on Early Childhood Education
- 495 Advanced Project in Educational Studies

## English

- 191 Introduction to Literature
- 221 Canadian Literature in English
- 330 Victorian Literature
- 440 Major Modern Texts

## Extrdepartmental Studies

- 190 Comparative Religions
- 195 Young People's Literature
- 202 Drawing
- 232 Indian Literature

## Geography

- 192 Geography and the Environment
- 202hc Principles of Economic Geography
- 204hc The Atmospheric Environment
- 307hc Remote Sensing and Photogrammetry
- 330hc Geography of Vegetation
- hc Half-course in Urban Geography (TBA)
- hc Half-course in Cultural Geography (TBA)

## Geological Sciences

- 190 Introduction to Geology

## Germanic and Slavic Studies

- Germ 100 Language (Introductory)
- Germ 190 Language and Literature (Intermediate I)
- Russ 410 Continuity and Contradiction in Soviet Russian Literature

## History

- 100 The Past Hundred Years
- 190 Mediaeval Civilization





# 1979/80 Tentative Winter Evening Course Offerings

- 234hc** Europe During the Iron Century, 1600-1715  
**296hc** Late Mediaeval and Sixteenth-Century Piety  
**393** The European Peasant  
**394** French Canada  
**410** Pre-Confederation British North America  
**450** Problems in Nineteenth and Twentieth Century Russian History

## Mathematics

- 160hc** Mathematics for Administrative Studies  
**192** Introductory Statistics  
**197hc** Differential and Integral Methods  
**198hc** Basic Statistical Methods  
**260hc** Introductory Operations Research  
**296** Mathematical Probability and Statistics

## Music

- 100** Music Today  
**150** History and Literature of Music  
**174** Music for the Classroom Teacher I  
**182/282/382** Practical Music I, II, III (University Chamber Choir)  
**390** Materials for Music III  
**455** Contemporary Music

## Physics

- Astr 100** Introduction to Astronomy  
**490, 491** Research Projects

## Politics

- 190** Introduction to Politics  
**200** Political Philosophy  
**230** Law and Legal Institutions (ADMI 310)  
**315hc** The Political Culture of English Canada

- 316hc** The Political Culture of French Canada  
**350** Urban Politics and Administration  
**426hc** International Politics and National Security in the Third World  
**461hc** Comparative Politics of Southeast Asia

## Psychology

- 190** Introduction to Psychology  
**225** Dynamics of Personality  
**240** Comparative Psychology  
**290** Cognition  
**298** Physiological Psychology  
**325** Advanced Theories of Personality  
**330** Tests and Measurements  
**401** Issues in Personality, Social and Developmental Psychology

## Romance Studies

- Fren 180** Practical Language  
**Fren 200** Language (Intermediate)  
**Fren 391** Literature, 20th Century  
**Ital 100** Language (Introductory)  
**Ital 190** Language and Literature  
**Ital 230** Culture and Civilization  
**Ital 393** Literature of the Middle Ages  
**Span 100** Language (Introductory)  
**Span 190** Language and Literature  
**Span 230** Spanish Culture and Civilization

## Sociology

- 190** Man and Society  
**or 191** Issues in Canadian Society  
**220** Theories in Social Relations  
**230** Research Methods in Social Relations

## Urban and Environmental Studies

- 297** Environment, Energy and Resources  
**325hc** Pollution: Effects and Consequences  
**396** Inter-Disciplinary Perspective in Urban and Environmental Studies





# General Interest Courses

## Introduction

These 'general interest courses' are open to everyone. Designed for personal enrichment and enjoyment, they require no previous experience or academic record. There are no prerequisites, unless specified in the course descriptions. These programs do not carry 'credit'; they do not lead to certificates, diplomas or degrees. Instead, they represent an opportunity for those interested in systematic study to do organized reading and writing, and to exchange ideas with faculty members and fellow students. Your own interest is all that is needed to ensure success in a course.

## Office of Part-time Programs

The Office of Part-time Programs is located in Room 264, Thistle Complex, adjacent to the Library Tower on the main campus. The hours of the Office are 8:30 am to 4:30 pm Monday through Friday. The Office is closed 12 - 1 pm. The telephone number is 684-7201, ext. 477 or 478.

## Registration

You may register as soon as you receive this brochure. Enrol early to be certain of a place, since applications are accepted in order of their arrival. Registration should be completed at least one week before the first scheduled session of the course.

Registration procedures are flexible - - either enrol in person at the Office of Part-Time Programs, or by mail. To register by mail, detach the registration form provided at the end of this brochure and mail it together with full fees payable to Brock University.

For the convenience of the public, there will be two Special Registration Periods at the Office of Part-Time Programs, as follows:

Monday — Thursday, September 25 — 28,  
8:30 am — 8:30 pm  
Friday, September 29, 8:30 am — 4:30 pm  
Saturday, September 30, 10:00 am — 12 noon

and  
Tuesday — Thursday, January 2 — 4,  
8:30 am — 8:30 pm  
Friday, January 5, 8:30 am — 4:30 pm  
Saturday, January 6, 10:00 am — 12 noon

## Fee Refunds

Fees are refundable in full only when a course is cancelled. Refunds for other reasons must be requested *in writing* and received in the Office of Part-Time Programs prior to the second lecture of the course. All requests for refunds must be accompanied by the receipt. A \$5.00 administrative charge for handling will be deducted. Non-attendance at classes does not constitute official withdrawal.

## Courses

### GEN-36-100

#### Matters of Life and Death: Contemporary Issues in Bioethics

Current problems of the great emotional and practical significance of life and death are explored from the perspectives of the biological sciences and ethics. Topics to be considered in a lecture-discussion format include: the status of the fetus in regards to fetal research and abortion; global food resources and the morality of food aid programs; world population and procreative rights; and some recent advances in genetics research and the concept of "dangerous knowledge". No previous knowledge of either biology or philosophy is necessary.

*Prof. G. Nathan, Philosophy*

*Prof. D. Ursino, Biology*

8 Thursdays

7-10 pm

Beginning January 11, 1979

Fee: \$40

### GEN-10-100

#### Historic Archaeology in the Niagara Peninsula

An introduction to the basics of historical archaeology and archaeological field and laboratory techniques and procedures as utilized by the Jordan Pottery Excavation and study projects at the Jordan (Ontario) Pottery Site. Topics will include: a definition of archaeology and its goals; intro-

duction to archaeological theory; and field techniques and procedures in theory and practice. The course is also intended to give an understanding of the type of information that can be obtained from archaeological excavations. The course should appeal especially to historical societies, Canadiana collectors, potters and school teachers. Recommended reading: An introduction to Canadian Archaeology, David L. Newlands and Claus Brede (McGraw-Hill Ryerson Ltd.) 1976.

*Prof. D. Rupp, Classics*

Lectures — on campus — Tuesday, October 10 & 24 — 7-9 pm

Site Visit — Jordan Pottery Dig — Saturday, October 14 & 21 — 9 am — 5 pm

Laboratory — On Campus — Saturday, October 28 — 9 am — 5 pm

Fee: \$40

### GEN-02-100

#### Christian Literature

An examination of assumptions about what "Christian literature" might be and might do, and a sympathetic study of some important Christian novelists and poets. Course topics will include: workshop on assumptions; the novel as witness; the conversion novel; the place of allegory; varieties of experience and expression in poetry; science fiction and psychofantasy; realism and doctrine. The course will provide an introduction to some major Christian literary works; a re-assessment of personal values; and an understanding of some of the problems facing the Christian artist.

*Prof. J. Lye, English*

8 Mondays

7-9:30 pm

Beginning January 8, 1979

Fee: \$25

### GEN-12-100

#### Italian Language for Dialect-Speakers

Introduction to the main elements of the standard Italian language, and identification of certain lexical and phonetic problems arising in a bilingual environment. The course should be of interest to students who know only some Italian dialect, but could be beneficial to the English speaking students interested in gaining a reading knowledge of Italian. Required





## General Interest Courses

text: Corso preparatorio di lingua italiano per stranieri Edizioni scolastiche Mondadori, A. Roncari.

*Prof. R. De Luca, Romance Studies*  
6 Wednesdays  
7-10 pm  
Beginning October 4, 1978  
Fee: \$25

### GEN-02-101

#### Reading Poetry

This course deals with how to read and understand poetry, featuring specimen readings in English, American and Canadian poetry of various periods. Specific attention will be paid to modern poetry. Students will learn how to tell a poem from a non-poem; what's in a Shakespearean sonnet; argument in poetry; the Romantic sensibility; and the Modern Mode. For the uninitiated, the course will offer an introduction to reading poetry; for those who already indulge, a sharpening of sensitivity; for those who dabble in writing, a development of your powers of self-criticism. Required reading: *A concise Treasury of Great Poems*, ed. Untermeyer. (Pocket Books \$1.25)

*Prof. G. Coggins, English*  
6 Wednesdays  
7-9 pm  
Beginning October 4, 1978  
Fee: \$25

### GEN-18-100:

#### Teaching Movement Skills to Children With Special Needs

With the increasing number of handicapped children being integrated into the public school system we have become very aware of the need for teachers who understand not only the problems but also the movement potential of these children. To enable these young people to fully realize their potential, it is essential that teachers receive programming ideas and support from supervisory, university and community personnel. The course will cover identification and remediation of motor problems in children, particularly perceptual motor problems. Also included will be specific programming for children with perceptual-motor problems; ideas for teaching movement skills to mentally handicapped children; understanding the physically handicapped child and his/her

movement potential; and teaching the handicapped child in the water. The course will follow the format of three, three-hour workshops for elementary classroom teachers, special and physical educators, parents of children and early childhood educators.

*Prof. J. Evans, Physical Education*  
3 Saturdays  
October 28, November 25, January 13  
9 am — 12 noon  
Fee: \$25

### GEN-06-100

#### Symmetry in Nature, Art and Science

Many things in nature possess symmetry, and artists and craftsmen often use principles of symmetry in designing beautiful objects. Symmetry also lies at the foundations of science. Students in this course will investigate symmetry by making models and designing patterns, and will view series of slides and other displays which show different aspects of symmetry. Course topics will include symmetry of objects and the symmetry of repeating patterns. The student should gain an appreciation of the role symmetry plays in ordinary life, as well as insight into the connections between the humanities and science. Recommended reading: "Symmetry and Fantasy: The Periodic Drawings of M. C. Escher", Abrams, \$15.

*Prof. M. F. Richardson, Chemistry*  
8 Thursdays  
7-9 pm  
Beginning October 5, 1978  
Fee: \$25

### GEN-05-100

#### Energy, Diet and Aging

The program focuses on the idea of energy and its relationship to living systems, including the energy needs of human beings; the nutritional sources of energy; energy and weight; energy and life-cycles; and the process of aging. Course topics will include energy, heat and living systems; energy and nutrition; size, weight and energy utilization; energy in the life cycle; growth and aging. Students will learn sense and nonsense about diet, exercise, diseases, old age and the human life span. This course would appeal to a general audience, as well as school teachers,

doctors and nurses.

*Prof. P. Nicholls, Biological Sciences*  
8 Thursdays  
7-9 pm  
Beginning October 5, 1978  
Fee: \$25

### GEN-16-102

#### Computing Concepts

A course for the layman to learn the basic concepts of computers: how they work; their limitations; and where they fit into present day society. The course will be solely descriptive, requiring no mathematical background, no programming or other assignments will be set unless requested by students. There are no specific course objectives other than to provide topics of general interest. Topics will include a brief history of computers; overview of application areas; the basic components of a computer, programming a computer; applications in business and education; miscellaneous applications and future trends. Recommended reading: "Computers and Man", Richard C. Dorf (Boyd and Fraser).

*Prof. F. R. Skilton, Computer Science*  
5 Tuesdays  
6-8 pm  
Beginning October 3, 1978  
Fee: \$25

### GEN-16-101

#### Basic Computer Programming

This course will introduce the student to basic techniques of computer programming with applications on the Wang computer in the BASIC language. The objective of the course is to give a person a working knowledge of a simple, but practical, computing language. The course should appeal to teachers, industrialists, high school students and so forth. Required reading: "Basic Programming", J. G. Kemeny and T. E. Kurtz, Wiley.

*Prof. S. Rothstein, Chemistry*  
5 Tuesdays  
7-9 pm  
Beginning November 7, 1978  
Fee: \$25

### GEN-16-100

#### Home Computing

The main objective is to show how students could use computers in their own





## General Interest Courses

homes and to acquire the ability to program it. The course is aimed at people in the community who have no computer experience but can see the potential for having a computer at home, or are intrigued at the idea as a result of the recent publicity given this expanding concept. Course topics will include what a computer is and when to use it; applications of computing; how to use a small computer; and writing programs using the BASIC language.

*Prof. P.A.V. Thomas, Computer Science*  
8 Thursdays  
7-10 pm  
Beginning January 11, 1979  
Fee: \$30

### GEN-08-100

#### **The Ice Age and After — Geomorphology of the Niagara Peninsula**

The first and final sessions will be held in a regular classroom, using maps, aerial photography, etc. The other four sessions will include visits to field areas of geomorphological interest. Topics covered are an introduction to the escarpment, maps, and aerial photographs; Lake Ontario shoreline, Lake Iroquois shoreline; the Niagara Escarpment and the re-entrants in it; Fonthill delta and related features; Short Hills Provincial Park; re-evaluation of sites seen and their meaning. Students will gain some appreciation of the late or post-glacial events in the peninsula from the field evidence. This course would appeal to anybody with a bent for natural history, but clearly local school teachers would gain from a new view of familiar areas. Private transportation will be required, however, a car pool will be organized in class to accommodate those without cars. Recommended reading: Chapman and Putnam, "Physiography of Southern Ontario", University of Toronto Press.

*Prof. K. J. Tinkler, Geography*  
6 Saturdays  
2-5 pm  
Beginning October 14, 1978  
Fee: \$30

### GEN-14-100

#### **Basic Economics for Canadians**

The course will provide a non-technical introduction to economic analysis, together with applications to current problems. Topics will include supply and demand,

unemployment, inflation, the banking system, taxation, international trade and economic growth. Students will obtain a better understanding of the Canadian economy and its problems.

*Prof. L. Soroka, Economics*  
6 Wednesdays  
7-9 pm  
Beginning October 4, 1978  
Fee: \$25

### GEN-21-100

#### **Latin America, The Land, People and Culture**

An introduction to Latin America, stressing topics of interest for the travel-minded and for those seeking an awareness of the culture and people of our southern neighbours. The course will provide an insight into Latin American culture, and what is happening today in the southern continent in respect to developmental problems. Course topics include regional geographic introduction; problems of development (overpopulation, urbanization); people and places of the Andes; culture — music, art; travel — how to prepare and what to expect; and food, including dinner at the end of the course. This program will appeal to the general public, teachers at both elementary and secondary levels, travellers and travel agents.

*L. Beltrano, Institute of Urban and Environmental Studies*  
6 Tuesdays  
7-9 pm  
Beginning October 3, 1978  
Fee: \$40

### GEN-22-100

#### **Gambling: Who Really Wins?**

Discover the odds of winning the Wintario or Loto Canada. The course will include:

- Nature of chance and probability, expected values and ruin, classic gambler's fallacy, risk as a part of life, subjective probability and utility;
- Casino games: Roulette, Craps, Blackjack, Baccarat, Keno and other foolish games;
- Lotteries and bingo, pari-mutual wagering, sport's books;
- Private games: card games and other "skill" games, legal requirements and restrictions, hazards;

- Psychology of gambling: lures and traps, addictions and self-destructive behaviours;
- Gambling as entertainment: strategies for fun on a fixed budget, maximizing chances of a win, avoiding cheating; and
- Gambler's ruin and long-run expectancies, betting systems (long and short-run results), games which can be 'beaten'.

*Prof. D. S. Lordahl, Psychology*  
8 Mondays  
7-10 pm  
Beginning January 8, 1979  
Fee: \$25

### GEN-92-100

#### **Solar Energy Seminar**

The 1977 Popular Science Handbook on Home Energy points out that "every fifteen minutes, enough solar energy reaches the earth to supply the entire world's energy needs for a year. Many enlightened people feel we ought to collect that energy and put it to use. Solar energy is free. It's plentiful. It doesn't pollute. So why don't we put it to better use?" For answers to this question, and a practical insight into solar energy, plan to attend our Solar Energy Seminar. Here are some of the topics to be covered:

Canadian Solar Projects to date  
Reference Material  
Solar Basics — The Greenhouse Effect  
Simple Thermodynamics  
Types of Water Collectors  
Types of Air Collectors  
Orientation and Materials  
Systems, pumps, blowers, controls  
Storage of Heat  
Thermosyphon Systems for the Cottage  
Swimming Pool Heaters and Greenhouses  
Sizing the Systems — Doing the Calculations  
How much does it really cost?  
Testing a Solar System  
Passive Solar Heating — Design and Aesthetics  
A brief look at Aerogenerators, Heat Pumps, Wood Stoves

*J. Umanetz — Mr. Umanetz has had extensive practical experience with solar energy. He has designed and built his own solar-heated home.*

4 days, Saturday and Sunday, November 4, 5, 11 and 12, 1978





## General Interest Courses

Saturday — 9 am — 4 pm

Sunday — 10 am — 5 pm

Note: Registration will be limited. If interest warrants, the seminar will be repeated November 18, 19, 25 and 26, 1978. Fee: \$50 (includes lunch and coffee for each of the four days)

### GEN-92-101

#### Know Your Rights: An Introduction to Law for the Consumer

This course is designed to familiarize lay people in regional Niagara with the judicial process, and provide a basic explanation of the court structure. It will then proceed through several areas of the law which most commonly affect our lives: simple contract law, consumer purchasing, landlord and tenant problems, Small Claims Court, to mention a few. The course will follow a lecture format expanding on the main course topics, followed by discussions of common problems and illustrated by way of alleged cases. The emphasis will be placed on recognition of one's legal rights and knowing what to do when one's rights have been violated. Topics will include: Landlord and Tenant; Terminating Tenancies; Going to court; Consumers and the Law (for example — Consumer Protection Act, Business Practices Act, Combines Investigation Act, Contract Law, Bankruptcy, Credit); and When and how should I retain a lawyer.

*F. Reid, practicing lawyer in St. Catharines*  
8 Thursdays

7-10 pm

Beginning October 5, 1978

Fee: \$25

### GEN-19-100

#### Basics of Geology

The fundamentals of geology will be presented by use of lectures, slides, blackboard diagrams. Laboratory exercises will be provided for some topics. All notes are provided by the instructor. Course topics include: introduction to geology; minerals and mineral formation; rocks and rock formation; weathering and erosion; folding; faulting; topographic maps; continental drift; glaciation — alpine; and glaciation — continental. Students will gain a general overview of the science of geology, geologic processes and the effect of these processes on the surface of the earth. This course will appeal to the general

public, Niagara Peninsula Geologic Society, other mineral collecting clubs, elementary and secondary school teachers.

*B. Murphy*

10 Wednesdays

7-9 pm

Beginning September 27, 1978

Fee: \$25

### GEN-19-101

#### Geology of the Niagara Peninsula

The geology, geomorphology and economic importance of geology in the Niagara peninsula will be discussed. A field trip is planned for a Saturday after the lectures finish. Topics include geologic history part 1; geologic history part 2; drainage; the Niagara river; mineral industry; soils; topographic maps; man and geology. Students will gain a better understanding of the geologic processes which formed the peninsula. Areas of particular geologic interest would be identified and visited. This course will appeal to the general public; Niagara Peninsula Geologic Society, elementary and secondary school teachers.

*B. Murphy*

10 Wednesdays

7-9 pm

Beginning January 31, 1979

Fee: \$25

### GEN-19-102

#### Geology of the Canadian Shield

A general description of the geology of the Canadian Shield using lectures and slides. Included will be economic activities, radioactive dating and nuclear power. Topics include: introduction to the Shield; origin of the Shield; the Grenville province; the Sudbury Basin; meteorite impact craters; iron formations; gold and silver mining; uranium and nuclear power; glaciation and the Shield; the future of the Shield. Students will gain an overview of the Shield — size, topography, origins — and man's activities, particularly in the area of mining. The course would appeal to the general public, Niagara Peninsula Geologic Society and elementary and secondary school teachers.

*B. Murphy*

10 Mondays

7-9 pm

Beginning January 8, 1978

Fee: \$25





# Professional and Individual Exploration (P.I.E.)\*

## Non-credit programs in life skills, professional development and personal exploration

P.I.E.\* is a group of professionals from several disciplines who offer a variety of educational programs through the Office of Part-time Programs. P.I.E. programs are designed to enhance the continuing development of people in their personal lives and professional roles.

*Please Note:* P.I.E. programs are intended for persons seeking learning experiences. They should not be regarded as a substitute for psychotherapy nor sought as a quick solution to pressing personal problems.

## Facilitator Profiles

### *Mark Gelula, Ph.D.*

Mark is an organizational consultant and trainer for schools, business and industry, and governmental agencies. His interests and strengths are in supervisory relationships, team building, interpersonal relations, organizational behaviour and organizational development.

### *James Gram, Ph.D.*

James is an Associate Professor in the College of Education, Brock University. While his main teaching area is educational administration, he is also interested in organizational behaviour, problem solving and interpersonal relations, and techniques for generating creative ideas.

### *David L. Jordan, Ph.D.*

A clinical psychologist, currently Associate Professor and Director of Counselling at Brock. Special interests are encounter groups, Gestalt therapy, systematic training in interpersonal skills, and group leadership development.

### *Jim Lott, B.A., B.Ph.Ed.*

As Vocational Services Director for the Windsor Association for the Mentally Retarded, Jim has had extensive involvement with assertive training program,

inter-personal communication groups and problem-solving techniques. His special interests are in practical application of facilitative skills and problem-solving techniques in personal and professional areas.

### *Joan McCurdy, M.Ed.*

A counselling psychologist at the Brock Counselling Centre, her special interests are in group dynamics, assertive training, the learning process, and personal growth in groups.

### *Les Myers, B.A.*

An advanced doctoral candidate in counselling psychology at O.I.S.E. (University of Toronto) currently interning at the Brock University Counselling Centre. His special interests are humanistic approaches to psychotherapy, hypnosis, humour and laughter, interpersonal skills development, and groups as agents of change.

### *Ed Pomeroy, Ph.D.*

Ed Pomeroy holds a Ph.D. in clinical psychology from the University of Colorado and is Associate Professor in Psychology at Brock University. His interests range from individual psychotherapy to mind-body relations as expressed in a variety of psychological theories.

### *Karen Zanutto, M.A.*

A counselling psychologist at the Brock Counselling Centre, her special interests are in organization development, supervisory skills, group dynamics, assertive training and learning styles.

## Application Procedure

Registration deadline for *all* workshops is seven (7) days prior to the starting date. Application must be accompanied by full payment of fees. A (20) per cent reduction in fees will be arranged when two or more persons from the same volunteer organization attend the same program. Please complete and return the registration form which is provided at the end of this booklet.

All fees include a \$5.00 non-refundable registration cost. If you are unable to attend, and wish a refund, you must notify P.I.E. at least three days in advance of the program starting date.

For further information contact Brock University Counselling Centre, 684-7201, ext. 233.

### **P.I.E.-93-100**

#### **Creative Singlehood**

This workshop is intended for those who want to live their singlehood in more satisfying and creative ways. The emphasis will be on gaining an appreciation of yourself and your needs, including relationships with others and your own space and time preferences.

Dates: 5 sessions: September 12 — October 10, Tuesday, 7:00-9:30 pm

Facilitators: *Joan McCurdy, Mark Gelula*  
Fee: \$40.00

### **P.I.E.-93-101**

#### **Basic Communications**

The facilitators of this workshop operate on the premise that the object of effective communications is the accurate sharing of meanings, which have both a cognitive and affective component. Participants will have the opportunity to both learn and practise skills which will enhance their abilities to understand and be understood by others.

Date: Saturday, September 30, 9:00 am - 4:30 pm

Facilitators: *Jim Lott, Les Myers*  
Fee: \$35.00 (includes lunch)

### **P.I.E.-93-102**

#### **Introduction to Supervisory Skills**

Participants will be helped to identify, structure and participate in various modes of supervisory practice. Supervision is seen as a helping process with the goal of improving subordinate performance. The workshops will include case studies, role play and experiential learning to encourage participants to better understand how they presently operate as well as to practise new skills in relating to others in their organization.

Dates: October 6 and 7, 9:00 am - 4:00 pm.

Facilitators: *Mark Gelula, Karen Zanutto*  
Fee: \$60.00 (includes lunches)





## Professional and Individual Exploration (P.I.E.)\*

### **P.I.E.-93-103**

#### **Self-Discovery: A Personal Growth Weekend**

This residential week-end will emphasize contacting and developing parts of ourselves that are generally left unattended. Gestalt, encounter and body-awareness techniques will be used to promote and guide self-exploration and interpersonal interaction. The relationship of the group experience to our day-to-day lives will be explored.

Dates: October 13, 14, 15 — Friday 8:00 pm to Sunday 4:00 pm (Location to be announced to participants)

Facilitators: *Ed Pomeroy, David Jordan*  
Fee: \$60.00 (plus \$25.00 room and board)

### **P.I.E.-93-104**

#### **Time Management**

Your time can be yours to control and the simple techniques taught in this seminar can be your key to time management success. Topics taught will include:

- identifying time wasters
- pacing yourself
- scheduling your day
- getting organized daily
- setting life goals
- setting short term and long range goals
- making the most of your time
- blocking interruptions

To the time-conscious person this seminar is a must. Open to all, and especially useful for managers, supervisors, and administrators.

Date: Tuesday, October 17, 8:30 am - 4:00 pm.

Facilitator: *Mark Gelula*  
Fee: \$35.00 (includes lunch)

### **P.I.E.-93-105**

#### **Assertive Training Workshop**

Being assertive means being honest and open about your own feelings and acting on them in a positive, non-threatening manner. It means standing up for your own rights and dignity without infringing on the rights and dignity of others. Assertive behaviour improves communication at home and on the job.

The skills involved in assertive behaviour will be practised in a workshop setting

which provides a supportive atmosphere and the opportunity for direct constructive feedback from other group members. Each participant will be helped to develop a personal way of expressing their assertiveness which feels comfortable to them.

Date: Friday, November 10, 9:00 am — 5:00 pm

Facilitators: *Karen Zanutto, Joan McCurdy*

Fee: \$35.00 (includes lunch)

### **P.I.E.-93-106**

#### **Communication Skills on the Job**

A large part of effectiveness and morale in the workplace depends on the quality of interpersonal communications and relationships. This workshop will focus on effective communication skills and their impact on employees' performance. Attention will be given to one-to-one and group meeting communications. Participants will be encouraged to assess their own communication patterns and practice the skills that are a part of productive interchanges.

Date: Friday, December 1, 9:00 am - 4:00 pm

Facilitators: *Karen Zanutto, Mark Gelula*  
Fee: \$35.00 (includes lunch)

### **P.I.E.-93-107**

#### **Beyond Empathy, An Advanced Communication Skills Workshop for Professional Development**

This workshop will examine an approach to therapeutic communication which integrates concepts from linguistics and experiential psychology. Therapies based on this approach assist people to become aware of themselves as model builders or information processors. The model can be integrated with a wide range of therapeutic approaches. The workshop will emphasize the relationship of this approach to one's personal therapeutic style. Participants should have prior experience with active listening, basic communication skills, or helping skills programs.

Dates: 5 sessions, January 16 — February 13, Tuesdays, 7:00-10:00 pm

Facilitators: *David Jordan, Ed Pomeroy*  
Fee: \$60.00

### **P.I.E.-93-108**

#### **Supervisory Skills: Leadership**

What is a leader? How is a leader different from a manager? This skills workshop will focus on helping persons interested in improving their supervisory skills to identify their leadership styles and to practice these styles in a variety of examples and settings.

Topics include: Identifying your leadership style; Learning to adapt a style to a situation; Task leadership; Leadership in meetings; Crisis management; and Leading problem employees.

Date: Friday, February 9, 9:00 am - 4:30 pm

Facilitators: *Mark Gelula, Karen Zanutto*  
Fee: \$35.00 (includes lunch)

### **P.I.E.-93-109**

#### **Creative Problem Solving**

This workshop will use some real-world problems on which participants can practise creative thinking skills. You will get some understanding and practice in mental skills such as suspended judgment and divergent thinking. You will also learn about and apply modern techniques for idea generation such as word play, attribute listing and forced association. You will begin the development of one of the most valued skills needed in a time of rapid and turbulent change — the ability to produce fast, effective and innovative responses to new, emerging problems.

Date: Friday, April 6, 9:00 am - 3:30 pm

Facilitator: *James Gram*

Fee: \$35.00 (includes lunch)

### **P.I.E.-93-110**

#### **Living Your Dying - A Personal Growth Workshop**

This full day workshop provides an experiential exploration of the existential dilemma that we must accept the reality of our own death before we can choose to live. Structured exercises will assist participants to confront the meaning of their own death.

This workshop is not recommended for persons who do not have prior experience with intensive group experiences.

Date: Friday, April 20, 9:00 am - 11:00 pm





# Professional and Individual Exploration (P.I.E.)\*

Facilitators: *Les Myers, David Jordan*  
Fee: \$45.00 (includes lunch & dinner)

## P.I.E.-93-111

### Supervisory Skills: Delegation and Motivation

"How do I delegate tasks to others?"  
"People don't accept my delegated tasks."  
These common questions and complaints will be the starting point for this workshop. It is intended for persons interested in improving their supervisory skills. Participants will practice special delegation skills in a variety of examples and settings.

Topics include: Delegating theory; Delegating common tasks; Delegating and motivating problem employees; Critical incidents and delegations; Delegating and and motivation; and Absenteeism.

Participants are urged to bring their real 'work' problems to the session.

Date: Thursday, May 17, 9:00 am - 4:30 pm

Facilitators: *Karen Zanutto, Mark Gelula*  
Fee: \$35.00 (includes lunch)

## P.I.E.-93-112

### Chautauqua

Chautauqua\* is a series of ten one-evening sessions addressing a wide variety of topics in the areas of professional and personal development. Many sessions preview an upcoming P.I.E. program. A range of didactic and experiential methods will be used. All sessions are held on Wednesday evenings, 7-10:00 pm

\*Chautauqua, first held in 1874, was a program of cultural and educational events intended to encourage adults to continue their studies. A group of educators and entertainers travelled from community to community during the summer months, staying several days in each place to present lectures, music and theatre.

Fees: all 10 sessions	\$35.00
any 5 sessions	\$20.00
1 session	\$ 5.00

### Creative Singlehood

An introduction to some of the issues

people face in living their singlehood creatively.

*Mark Gelula, Joan McCurdy*

Date: September 6, 7-10:00 pm

### Time Management

During this brief introduction, you will learn a simple formula used to identify your time wasters and an equally effective method for planning and scheduling your day.

*Mark Gelula*

Date: September 27, 7-10:00 pm

### Assertive Training

An introduction to the basic concepts and skills in assertive training. An opportunity to assess your present assertive behaviour.

*Joan McCurdy, Karen Zanutto*

Date: October 25, 7-10:00 pm

### Dreams

Discussion and demonstration of the use of dreams for increased awareness.

*Les Myers, David Jordan*

Date: November 22, 7-10:00 pm

### Growth Groups

A didactic and experiential survey of personal growth-oriented group experiences which have emerged in the last twenty years.

*Ed Pomeroy*

Date: December 13, 7-10:00 pm

### Stress and Anxiety

The session will focus on identifying the sources of stress and anxiety in our daily lives. Ways of coping with stress will be explored.

*Les Myers*

Date: January 10, 7-10:00 pm

### Creative Problem Solving

An introduction to several of the concepts and skills which form the basis of creative problem solving.

*Jim Gram*

Date: February 21, 7-10:00 pm

### Dying

This preview of the one-day workshop will examine the existential meaning of our death.

*David Jordan, Les Myers*

Date: March 7, 7-10:00 pm

### Couples Communication

An experiential introduction to direct communication for intimate couples.

*Karen Zanutto, David Jordan*

Date: April 12, 7-10:00 pm

### Mind Body Relationships

A gentle but active participation session to explore relations between bodily states and mental activity. Bio-energetics, calisthenics, and jogging will be considered.

*Ed Pomeroy*

Date: May 9, 7-10:00 pm





# College of Education Continuing Studies

## Programs for Parents, Teachers and School Administrators

### Introduction

The Office of Continuing Studies, Brock College of Education, was created so that the College might more effectively meet the community's continuing educational needs. Its major role will be in the administering and offering of:

A. Ministry of Education Certificate Programs designed for teachers and administrators of the schools in Ontario. (Programs to be offered during summer and winter sessions).

B. A broad program of in-service and professional development short courses and workshops designed to meet the varied needs of teachers and school administrators. (Short courses, workshops to be offered throughout the school year.)

C. A number of significant conferences and seminars instituted on a cooperative basis between the College of Education and all other components of the educational community.

### Admission Requirements

There are no special admission requirements or prerequisites to short courses and workshops unless otherwise specified in the individual course description. (Note: Ministry Courses) Anyone interested in a particular course is most welcome.

### Registration

Individuals may register by completing and returning the registration form which is provided at the end of this booklet. Early registration is recommended in order to ensure course availability.

### Refunds

Requests for refund should be submitted in writing to the Coordinator of Continuing Studies. A registration fee of \$10.00

is charged in each instance for all courses which meet more than once. The registration fee is non-refundable, but any remaining portion will be refunded where the notice of withdrawal is received by the Coordinator of Continuing Studies, either prior to the second meeting of programs that meet more than once, or ten days prior to the beginning of workshops that meet only once.

*NOTE: For Ministry of Education Courses only*

If a candidate withdraws for any reason during the first week of a program a refund will be made at the rate of \$35.00 for each remaining full week. No refund will be made in the case of withdrawal during the second or succeeding weeks of the program.

### Withdrawal of Courses

The Office of Continuing Studies reserves the right to withdraw courses listed in its publication. The entire fee is refunded in such cases.

### Classroom Locations

All courses will be located in the College of Education. Room numbers are listed in the course descriptions.

### Registration Procedures

(Please read general Information)

1. Complete the application form clearly. Make sure to enter the course name and number. It is important that the College have telephone numbers in the event of course changes or cancellations.

2. The application form must be accompanied by the applicable fees, made payable to the Brock College of Education.

3. Applicants may register by mail or in person until one week prior to the starting date involved. After that time, registration should be completed in person.

4. An official receipt is mailed, or given,

to the registrant upon acceptance of an application. The registrant is expected to retain this receipt and present it when being admitted to the classroom.

*For further information write to:*

V. Cicci  
Coordinator of Continuing Studies  
College of Education  
Brock University  
St. Catharines, Ontario  
L2S 3A1

## Ministry of Education Certificate Courses

Subject to enrolment, Brock College of Education plans to offer the following courses for Ministry of Education credit:

Course	Winter Session 1978-79	*Summer Session 1979	*Winter Session 1979-80
Primary, Junior or Intermediate Education	Part II	Specialist Part I	Part II
French as a Second Language	Part II	Specialist Part I	Part II
Physical Education	—	Part I, II, Specialist	—
Reading	Part I, II	—	Specialist Part I
Guidance	Part II	Specialist	—
Librarianship	—	Part I, II	—

\*Courses for summer 1979 and winter 1979-80 are only tentative

Summer Sessions will be four weeks in duration, with daily sessions from 8:00 am to 2:30 pm

Winter Sessions — once a week (3 hour session) for 20 weeks (approximately), plus some Saturdays (September to February or February to June).

Fees per course will be \$150.00.

The College of Education will follow approved Ministry of Education course descriptions and guidelines as indicated in their *Professional Summer Programs for Teachers* booklet.

If you are interested in any of the above courses, please write to V. Cicci, Co-





# College of Education Continuing Studies

ordinator of Continuing Studies, Brock College of Education, for specific course descriptions and application forms.

Registration for summer sessions should be made prior to May 12. Registration for winter sessions should be made prior to June 1.

Candidates will be notified as to any special admission requirements. Admission requirement for any Ministry of Education credit course is a Teaching Certificate or Letter of Standing to teach in Ontario. In order to qualify for Part II of any course, Part I must be successfully completed. Additional requirements will be noted in course descriptions.

## Non Credit Short Courses

### CED-34-101

#### Values Education

A practical approach to values education in elementary classrooms. Exercises, procedures and teacher input for handling the affective domain. The course will look at the implications of values education in the various subject areas in the school curriculum. The course is intended for teachers, parents and those interested in the important area of values education.

*A. C. Bennett*

Brock College of Education, Room 205  
Wednesdays, April 4 — May 2, 1979  
7:00 — 9:00 pm  
Fee: \$25

### CED-34-102

#### The Skills of Classroom Management

This course is designed for teachers who wish to improve the quality of teacher-student relationships in the classroom. The specific goal is to have participants further develop their skills of communication, motivation, discipline, and other human relations problems in the classroom. The practical approach will actively involve the learner in discussion groups, role playing and one-to-one skill development.

*D. Sypes*

*J. Novak*

Brock College of Education Room 203  
Thursdays, March 29, April 5, 12, 19,  
May 3, 1979

7:00 — 9:00 pm

Fee: \$25

### CED-34-103

#### Group Decision-Making

The three-unit sessions will look at groups in action with emphasis on group roles of leader, member, recorder; group development related to stages, facilities, size, tasks; and group effectiveness through commitment, communications, openness, conflict. The focus of the participation of the group will be on decision making through use of the systems method, the force field method, and the priority method. All sessions in the unit will use simulation and the skills are transferable to activities involving group functions.

*W. B. Poole*

*R. Moase*

College of Education, Room 203  
Thursdays, November 2, 9, 16, 1978  
6:30 — 10:00 pm  
Fee: \$25

### CED-34-104

#### Mathematics — Metrication

This course is designed for interested parents, and teachers of students in the primary, junior and intermediate grades. The objectives of the course will be: to provide the participants with the necessary background needed in order to utilize the metric system of measurement that is currently being implemented in the Ontario schools; to demonstrate teaching strategies and activities suitable for introducing metric measurements of length, area, volume, mass and other related areas; and to illustrate the practical application of metric measurement through problem solving situations.

*V. Ciccì*

Brock College of Education, Room 209  
Thursdays, November 16, 23, 30,  
December 7, 1978  
7:00 — 9:30 pm  
Fee: \$25

### CED-34-105

#### Mathematics in Early Childhood

This course is intended for interested parents as well as nursery school, junior kindergarten, kindergarten and grade I teachers. Those enrolled in the short course will discuss basic philosophy of early child-

hood experiences and develop activities to promote a successful "pre-mathematics" experience for young children. The appropriate content, materials and strategies for teaching mathematical ideas to young children will also be discussed.

*R. Connelly*

Brock College of Education, Room 209  
Mondays, March 26, April 2, 9, 23, 30, 1979  
7:00 — 9:00 pm  
Fee: \$25

### CED-34-106

#### Supervisory Techniques for Associate Teachers

Appropriate observation and counselling techniques for associate teachers while working with student teachers.

*W. B. Poole*

College of Education, Room 203  
Wednesdays, November 1, 8, 15, 1978  
6:30 — 10:00 pm  
Fee: \$25

### CED-34-107

#### Workshop in Science Teaching and the Development of Reasoning

A self-paced interactive workshop for junior, intermediate and secondary school science teachers based on the theory of Jean Piaget. The workshop combines group and individual activities using films, puzzles, laboratory materials, discussions, and readings. By participating in the four evening sessions, you will be able to find out how your science teaching can help your students improve their reasoning and conceptual understandings. Note: When registering, please indicate interest area (general science, earth science, biology, chemistry or physics).

*A. Wheeler*

College of Education, Room 304  
Thursdays, March 29, April 5, 12, 19, 1979  
7:00 — 9:30 pm  
Fee: \$25

### CED-34-108

#### Social Studies Methods — Intermediate Division

This course will deal with innovations in social studies, with particular reference to inquiry and problem-solving approaches to the teaching of history, grades 7-10. Candidates will receive instruction in curriculum unit design, the design of pupil activi-





## College of Education Continuing Studies

ties, and program evaluation strategies. The course is designed for elementary and secondary school teachers at the Intermediate Division.

*J. Love*

Brock College of Education, Room 327  
Mondays, March 26, April 2, 9, 23, 30, 1979  
7:00 — 9:00 pm  
Fee: \$25

### **CED-34-109**

#### **Behaviour Modification for the Classroom Teacher**

Designed for classroom teachers, the program offers a pragmatic introduction to the principles and techniques of behaviour modification as applied to the diverse problems encountered in the classroom. Topics covered will include behavioural contracts, role playing and reinforcement, counter-conditioning, cognitive techniques, confrontation techniques, contingency management and interpersonal methodologies.

*R. Crane*

Brock College of Education, Room 311  
Offered twice:  
Mondays, November 6, 13, 20, 27, 1978  
Mondays, March 26, April 2, 9, 23, 1979  
6:30 — 9:00 pm  
Fee: \$25

### **CED-34-110**

#### **Developing Units of Language Learning Skills, Based on Subject Curriculum**

This course is designed for interested teachers of the junior and/or intermediate grades. A workshop approach will be used and will centre around generating units of subject curriculum based on language learning skills. Various existing curriculum guides will be utilized to provide the subject content dimension to the units.

*W. Macdonald*

Brock College of Education, Room 202  
Wednesdays, April 11, 18, 25 and May 2, 1979  
7:00 — 9:30 pm  
Fee: \$25

### **CED-34-111**

#### **Print Making**

Overview of printmaking techniques suitable for elementary school. Course includes the order in which topics might be

introduced and ideas for classroom management during the art lesson. Emphasis will be on studio work — a learn-by-doing approach in relief printmaking, printing with found materials, simple, one colour lino-blocks, etc.

*L. Fast*

Brock College of Education, Room 305  
Tuesdays, November 7, 14, 21, 28, December 5, 1978  
7:00 — 9:00 pm  
Fee: \$25

### **CED-34-112**

**Watercolour Techniques and Composition**  
This course on watercolour techniques and composition will be at an advanced level. Persons interested in improving watercolour techniques and picture composition are most welcome.

*L. Fast*

Brock College of Education, Room 305  
Tuesdays, March 27, April 3, 10, 17, 24, 1979  
7:00 — 9:00 pm  
Fee: \$25

## **One Session Workshops**

### **CED-34-201**

#### **Language Arts Junior/Intermediate — Evaluation of Writing**

This workshop is for the professional development of teachers. It is a practical workshop related to formal writing (not handwriting). Included is a categorizing of the language arts and the place that formal writing has in the program as indicated by the Ministry guidelines. A schema for evaluation is applied to samples so that teachers can apply this learning to their own classroom programs.

*H. Friesen*

College of Education, Room 203  
Offered twice:  
Monday, November 20, 1978,  
6:00 — 9:00 pm  
Monday, April 9, 1979, 6:00 — 9:00 pm  
Fee: \$5

### **CED-34-202**

#### **Mathematics — Teaching Geometry**

A workshop designed for the Elementary school teacher at the Junior and Inter-

mediate levels. A practical approach to teaching the following: classification of angles, triangles, polygons and quadrilaterals; measuring and constructing angles, bisecting etc; patterns with tiles; identifying congruent figures, symmetry, slides turns and flips.

*V. Cicci*

College of Education, Room 209  
Thursday, November 2, 1978  
6:00 — 9:00 pm  
Fee: \$5

### **CED-34-203**

#### **Mathematics: Developing Decimals**

With the change to the Metric system and extensive use of calculators, the development of decimal concepts will likely begin earlier and take on new significance. This workshop will suggest ways in which decimals can be introduced and developed at various grade levels.

*R. Connelly*

College of Education, Room 209  
Monday, October 30, 1978  
6:00 — 9:00 pm  
Fee: \$5

### **CED-34-204**

**Mathematics: The Teaching of Probability (Upper Elementary-Junior High)** — a look at topics in probability that lend themselves to effective development at this grade level, and ways of developing them.

*R. Connelly*

College of Education, Room 209  
Monday, November 20, 1978  
6:00 — 9:00 pm  
Fee: \$5

### **CED-34-205**

#### **Language Arts**

These workshops are designed for teachers of the junior division. However, for some topics (Creative Writing and Use of the Newspaper) primary teachers will be most welcome. The format of each session will be as follows: a one hour presentation followed by a one hour discussion for sharing ideas and experiences. The topics and dates are as follows: (i) Creative Writing — March 15, (ii) Introducing the Novel — March 29, (iii) Using the Newspaper — April 5, (iv) Classroom Projects — April 12, (v) Poetry — Choral Speaking — April 19. Objectives: To have





teachers become aware of the various approaches that could be used; to have teachers learn about the various integrated activities that could be done in conjunction with these topics; and to provide an opportunity for teachers to acquire new ideas as well as to share their own experiences and ideas.

J. Wilker

College of Education, Room 202

Thursday, March 15, 29, April 5, 12, 19, 1979

5:00 — 7:00 pm

**Fee: \$5**

## Master of Education Program

The Brock College of Education offers a professional degree at the Master's level for practicing teachers. This program makes it possible to specialize in one of three defined areas: Curriculum Studies; Educational Administration, and Teacher Behaviour.

These courses are offered on a regular basis over the traditional university year as well as in Spring Evening and Summer Day sessions. Students are admitted to core courses during the fall, and may commence electives after they are successfully completed. The eight half-courses required for the degree which includes an exit project or thesis can usually be completed through part-time studies in two years.

Interested individuals are invited to enquire of the graduate officer, Mrs. S. Booth, in the Registrar's Office. Also, Dr. A. Bennett, the Chairman of the Graduate Program, will be happy to answer any questions that anyone might have relative to this program.

## Brock Annual Educational Conference

The next Educational Conference will take place Thursday, April 26 and Friday, April 27, 1979. It will be presented in co-operation with the Brock College of Education, the Ministry of Education, Ontario Institute for Studies In Education and the Lincoln County, Niagara South, Lincoln County Roman Catholic and Welland County Roman County boards of education. Further information will be available at a later date.

# Registration Form

**to be used for P.I.E. Courses,  
General Interest Courses and College of Education Courses  
(Please print and include course number and title)**

**I wish to enrol in the following course(s):**

<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Name \_\_\_\_\_

Telephone (Home)

Address

**(Business)**

Postal Code

**Mail this form along with your cheque made payable to BROCK UNIVERSITY to:**

FINANCE OFFICE  
BROCK UNIVERSITY  
ST. CATHARINES, ONTARIO  
L2S 3A1

(NOTE: FOR COLLEGE OF EDUCATION COURSES, MAKE CHEQUES PAYABLE TO BROCK COLLEGE OF EDUCATION)

**This section to be completed for P.I.E. programs only:**

1. If you were ever involved in a program similar to the one you are applying for, please describe and indicate the sponsoring organization:  

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2. Describe briefly your goals for the workshop: \_\_\_\_\_