

# Courses of Instruction

## Administrative Studies

### Office:

School of Administrative Studies  
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**AK/ADMS 1000 3.0 Introduction to Administrative Studies.** This course provides an overview of the context within which modern organizations operate. The course will examine the development of organizational and managerial theories. A number of contemporary issues and the organizational responses will be discussed.

*Prerequisite:* None.

*Note 1:* Not open to students who have taken AK/ADMS 2000 3.0; AK/ADMS 2000 6.0 or AK/ADMS 2010 3.0.

*Note 2:* Use of an IBM-compatible computer required.

**AK/ADMS 1500 3.0 An Introduction to Accounting: The Analysis and Use of Financial Information.** An introduction to accounting covering basic concepts in financial accounting, managerial accounting, finance and their interrelationships. This course satisfies a curriculum requirement of the Human Resources Professional Association of Ontario.

*Prerequisite:* None.

*Note:* This course does not qualify as a major course towards the BAS degree.

**AK/ADMS 2300 6.0 Research Methods in Health Studies.** This is an introductory course in health care research from an epidemiological perspective. The purpose of this course is to focus on research design; methodological problems and issues; and specific statistical approaches used to analyze this type of research.

*Prerequisite:* AK/MATH 1710 6.0 or AK/MATH 1720 6.0. AK/MATH 1720 6.0 may be taken concurrently with this course with permission of the Coordinator of Health Studies.

*Note:* Not open to students who have taken AK/NURS 2700 6.0.

**AK/ADMS 2400 3.0 Introduction to Organizational Behaviour.** This course introduces concepts of individual and group behaviour as they affect performance in organizations. Topics covered include motivation, communication, decision-making, leadership and structural issues. Lectures and case discussions are employed to develop theoretical models and illustrate their use.

*Prerequisite:* AK/ADMS 1000 3.0.

*Note:* Use of an IBM-compatible computer required.

**AK/ADMS 2430 3.0 Business in the Canadian Context.** An examination of the interaction between business and government. The impact of key public sector institutions and policies on business practices and strategic decision making and current political, economic and legal issues in the Canadian context are addressed.

*Prerequisite:* AK/ADMS 1000 3.0.

*Note:* Not open to students who have taken AK/ADMS 2410 3.0 or AK/ADMS 2420 3.0.

**AK/ADMS 2500 3.0 Introduction to Financial Accounting.** An overview of the accounting discipline, useful to both majors and non-majors. Includes accounting history, the uses of accounting information in personal and business contexts and the rudiments of financial reporting.

*Degree credit exclusions:* AS/ECON 3580 3.0, SB/BFND 3200 3.0, GL/ECON 2710 3.0.

*Note:* AK/ADMS 1000 3.0 is not a prerequisite for AK/ADMS 2500 3.0, but is strongly recommended.

*Note:* Requires access to a personal computer that runs Windows 95+, with multi-media capability and internet access. For students without personal access to these computing requirements, university microlabs are available.

**AK/ADMS 2510 3.0 Introduction to Management Accounting.** Managers require relevant information for planning, controlling and decision-making purposes. This course examines the accounting techniques available to satisfy those needs.

*Prerequisites:* AK/MATH 1710 6.0, AK/ECON 1000 3.0, AK/ADMS 2500 3.0.

*Degree credit exclusions:* AS/ECON 3590 3.0, SB/BFND 3200 3.0, GL/ECON 2720 3.0.

*Note:* Not open to students who have taken or are taking AK/ADMS 2520 3.0.

**AK/ADMS 2600 3.0 Human Resources Management.** This course examines a number of issues in Canadian human resources management including: human resources planning; recruitment; selection; performance appraisal; industrial relations; and training and development. (formerly AK/ADMS 3480 3.0)

*Note:* Not open to students who have taken AK/ADMS 4030 6.0 or AK/ADMS 4040 3.0.

**AK/ADMS 2800 3.0 Introduction to Real Estate Valuation, Part I.** This course examines the concepts, principles and process of real property appraisal and introduces the more common legal interests in land; land registration; land use control; the mathematics of finance; and mortgage lending.

*Prerequisite:* AK/ADMS 1000 3.0.

*Note:* Not open to students who have taken AK/URST 2430 3.0 or AK/URST 2440 3.0.

**AK/ADMS 2810 3.0 Introduction to Real Estate Valuation, Part II.** This course outlines the basic methods for the determination of real property values-including cost, income, sales comparison and reconciliation approaches. Changes in value, for example through obsolescence, rehabilitation or redevelopment are examined.

*Prerequisite:* AK/ADMS 2800 3.0.

*Note:* Not open to students who have taken AK/URST 2450 3.0.

**AK/ADMS 3000 3.0 (3000 6.0) Directed Reading.** A reading and research course suited to students with special interests. Students will select areas of study in consultation with an appropriate faculty member.

*Prerequisites:* 78 credits including AK/ADMS 1000 3.0, AK/ECON 1000 3.0; AK/ECON 1010 3.0 and 6 credits in quantitative methods or, for students with equivalent preparation, permission of the Director of Administrative Studies.

*Note:* Students must be accepted by a faculty supervisor before they can register in either of these courses. The course transaction form for such courses must be submitted with a note from the supervisor stating his/her willingness to perform this task. Permission of the School Director is also required.

**AK/ADMS 3120 3.0 (4120 3.0) Gender Issues in Management.** Uses feminist principles and pedagogy to examine gender issues relevant to managing career and life, including for example pay equity, harassment, stereotyping, power and assertiveness, diversity, mentoring, self-care and balance, with the goal of understanding issues and effecting change.

*Prerequisites:* None.

*Note 1: Not open to students who have taken AK/ADMS 4120 3.0, AK/ADMS 3130G 3.0, AK/WMST 3001J 3.0 or AK/WMST 3120 3.0.*

*Note 2: Students may take this course only once as either a 3000 or 4000 level course, but not both and the level may not be changed retroactively.*

*Note 3: The course workload is heavier for those who take the course at the 4000 level.*

**AK/ADMS 3130 3.0 (3130 6.0) Special Topics.** The instructor and subject of this seminar course will vary from session to session. Topics to be selected in consultation between faculty and students.

- C. Logistics Management in Canadian Transport (3.0)
- E. Marketing of Real Estate (3.0)
- N. Introduction to Municipal Law (3.0)
- P. Marketing in Health Services (3.0)

**AK/ADMS 3200 3.0 Introductory Marketing.** Covers the fundamentals of marketing theory, concepts and management as applied to marketing's strategic role in meeting customer needs; products/service, price, promotion, distribution, consumer, market, positioning, ethics, research: it utilizes lecture, oral and written work, case studies and a marketing plan.

**AK/ADMS 3280 3.0 Contemporary Issues in Marketing.** Students consider everyday practical issues as exemplified in readings from business newspapers and relate them to classic marketing theory articles. Includes issues such as the environment, ethics and gender. May involve group and individual discussion and participation.

*Prerequisite:* AK/ADMS 3200 3.0.

**AK/ADMS 3300 3.0 Decision Analysis.** This course provides an introduction to decision analysis under conditions of certainty, uncertainty, risk and competition. Both single person and group decision making are covered. Problems from many areas of managerial decision making are considered.

*Prerequisites:* AK/ADMS 2400 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0; and completion of the quantitative methods requirement.

**AK/ADMS 3320 3.0 Quantitative Methods I.** An integrated approach to analyzing business problems from various functional areas. Practical business problems are analyzed using quantitative techniques including probability, statistical inference, estimation and regression as well as non-parametric approaches.

*Cross-listed to:* AK/MATH 2720 3.0.

*Prerequisites:* AK/MATH 1710 6.0 or one OAC Mathematics course, AK/ADMS 1000 3.0.

*Note 1: This course is not open to students who have taken AK/MATH 1720 6.0; AK/MATH 2570 3.0, AK/ECON 3470 3.0 or equivalent; and is not open to Mathematics majors.*

*Note 2: Requires access to a personal computer that runs Windows 95+, with internet access. For students without personal access to these computing requirements, university microlabs are available.*

**AK/ADMS 3330 3.0 Quantitative Methods II.** This course continues with a case-oriented approach to quantitative business analysis and research methodologies. Statistical techniques, operations research techniques such as linear programming and modelling, metric and non-metric data analyses are amongst the techniques used.

*Cross-listed to:* AK/MATH 2730 3.0.

*Prerequisite:* AK/ADMS 3320 3.0.

*Note 1: This course is not open to students who have taken AK/ECON 3480 3.0; AK/MATH 3170 6.0; or equivalent; and is not open to Mathematics majors.*

*Note 2: Requires access to a personal computer that runs Windows 95+, with internet access. For students without personal access to these computing requirements, university microlabs are available.*

### **AK/ADMS 3350 3.0 Bayesian Inference and Decision Making.**

This course takes a quantitative approach to decision making, including a coverage of Bayesian inference, decision theory, prior, posterior and preposterior analysis using discrete and continuous distributions. Emphasis is given to understanding concepts and the use and application to administration.

*Cross-listed to:* AK/ECON 3110 3.0 and AK/MATH 2750 3.0.

*Prerequisite:* AK/ADMS 3320 3.0.

### **AK/ADMS 3351 3.0 Managerial Operations Research.**

Introductory treatment of operations research topics and applications to functional areas in administration. This includes linear programming, formulation, graphical solutions, simplex solutions, sensitivity analysis, duality and computer solutions; assignment/transportation problems, integer programming, network models, dynamic programming and computer simulation.

*Cross-listed to:* AK/ECON 3120 3.0 and AK/MATH 2751 3.0.

*Prerequisite:* AK/ADMS 3320 3.0.

### **AK/ADMS 3352 3.0 Sampling Techniques and Survey Design.**

This course deals with different sampling techniques and their applications to management problems. Survey design, pilot surveys, use of focus groups, in-person interviews, mail surveys and polling, will also be dealt with.

*Cross-listed to:* AK/ECON 3130 3.0 and AK/MATH 2752 3.0.

*Prerequisite:* AK/ADMS 3320 3.0.

### **AK/ADMS 3360 3.0 Integrated Logistics Management I.**

The purpose of this course is to describe the role of physical distribution and transportation in business and the impact that these factors can have on market share and profitability in a competitive marketplace.

*Prerequisites:* AK/ADMS 2430 3.0; AK/ADMS 2510 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0; and completion of the quantitative methods requirement.

### **AK/ADMS 3370 3.0 Integrated Logistics Management II.**

This course deals with management of the purchasing function, materials management and inventory management in modern organization. The course is taught by a combination of explanation of theory and study of case histories.

*Prerequisites:* AK/ADMS 2430 3.0; AK/ADMS 2510 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0 and completion of the quantitative methods requirement.

### **AK/ADMS 3380 3.0 Integrated Logistics Management III.**

This course deals with advanced logistics management in both the private and the service sectors. It provides an integrated logistics approach to all phases of materials management and materials handling for both manufacturing and non-manufacturing organizations.

*Prerequisites:* AK/ADMS 2430 3.0; AK/ADMS 2510 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0 and completion of the quantitative methods requirement.

*Note: Not open to students who have completed AK/ADMS 3130D 3.0.*

### **AK/ADMS 3390 3.0 Integrated Logistics Management IV.**

Order processing, warehousing, transportation, management methods and tools used to deal with key issues in logistics operations and their impact on customer service, costs and corporate profits. Course is taught with theory, case histories and presentations by guest speakers.

*Prerequisites:* AK/ECON 1000 3.0; AK/ECON 1010 3.0; AK/ADMS 2510 3.0; and completion of the quantitative methods requirement.

*Note:* Not open to students who have taken AK/ADMS 3460 3.0.

**AK/ADMS 3400 3.0 Occupational Health and Safety.** Covers federal and provincial occupational health and safety legislation, hazard identification and control, physical agents, chemical agents, socio-psychological aspects of health, and the management of safety programs.

*Prerequisite:* AK/ADMS 1000 3.0.

*Note:* Prerequisite waived for Non BAS students taking it solely as an elective.

**AK/ADMS 3410 3.0 Training and Development.** Covers the corporate training process of needs analysis, objective setting, program design, adult education, equity in training, methods and evaluation, as well as alternatives to training, and the role of stakeholder.

*Prerequisites:* AK/ADMS 1000 3.0; AK/ADMS 2400 3.0 or an introductory psychology or sociology course. Prerequisites waived for Non BAS students taking it solely as an elective.

*Note:* Not open to students who have taken AK/SOCI 4500 6.0.

**AK/ADMS 3420 3.0 Employment Law.** Provides a basic understanding of the law and issues governing the employer-employee relationship. The rights and obligations of employers and employees are examined, as well as labour relations in unionized settings.

*Prerequisite:* AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0.

**AK/ADMS 3422 3.0 Industrial Relations.** This course examines the history of unions, the nature of the industrial relations systems including the legal framework, the social psychological climate, contract negotiation and administration. Ideologies and trends are discussed.

*Prerequisite:* AK/ADMS 2400 3.0. Prerequisite waived for Non BAS students taking it solely as an elective.

*Note:* Not open to students who have taken AK/ADMS 3310 3.0.

**AK/ADMS 3430 3.0 Human Resources Planning.** This course provides students with an understanding of the personnel planning process, the qualitative and quantitative techniques used in forecasting personnel requirements, and feasible solutions to shortages or surpluses.

*Prerequisite:* AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0.

**AK/ADMS 3440 3.0 Managerial and Interpersonal Skills.** This course explores selected organizational behaviour issues in an experiential format. Students simulate, experience and analyze organizational processes such as leadership, managing a culturally diverse work force, organizational and individual learning, organizational socialization, and decision making.

*Prerequisite:* AK/ADMS 2400 3.0.

**AK/ADMS 3450 3.0 Employment Equity and Diversity.** Examines employer's role in the equitable management of a diverse workforce. Policies and practices which facilitate the accommodation and benefits of a diverse workforce, are discussed.

*Prerequisites:* AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0; AK/SOCI 2410 3.0; AK/PSYC 2410 3.0 or equivalent.

**AK/ADMS 3460 3.0 HR Information Systems.** Information systems are used extensively to manage HRM functions. Students will learn about the development and implementation of HRM systems which gather, store and report human resources data. Innovative uses of software in the management of HRM will be discussed.

*Prerequisite:* AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0.

**AK/ADMS 3470 3.0 Recruitment, Selection and Performance Appraisal of Personnel.** This course enables the student to identify the appropriate recruiting methods for locating and attracting different types of candidates, explains the key steps in the selection process, evaluates the validity of various selection techniques, and describes various performance appraisal methods.

*Prerequisite:* AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0.

**AK/ADMS 3490 3.0 Compensation.** This course provides the student with an understanding of the objectives of a compensation program; the process and techniques of wage and salary determination; issues and problems in incentive systems, benefits and services, and the management of these programs.

*Prerequisite:* AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0.

**AK/ADMS 3510 3.0 Managerial Cost Accounting and Analysis.** A course in theories and techniques of cost accounting and management accounting. Emphasis is placed on cost accumulation for purposes of (a) asset valuation and income measurement, and (b) planning and control.

*Prerequisites:* AK/ADMS 2500 3.0; AK/ADMS 2510 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0; AK/ADMS 3320 3.0.

**AK/ADMS 3511 3.0 Management Information Systems.** An overview of information systems and how these provide information needed to run organizations successfully. Topics include strategic role of information systems; ethical considerations; system selection, design and management; new information technologies; information system risks; and security and control considerations.

*Prerequisite:* AK/ADMS 1000 3.0.

**AK/ADMS 3520 3.0 An Overview of Canadian Income Taxation.** An overview of the taxation of personal and corporate incomes of Canadian taxpayers, related tax planning and GST implications.

*Prerequisite:* AK/ADMS 2500 3.0.

*Note:* Not open to students who have taken or taking AK/ADMS 3560 6.0, AK/ADMS 4561 3.0 or AK/ADMS 4562 3.0.

**AK/ADMS 3530 3.0 Finance.** The role of financial managers in accomplishing organizational objectives; uses of financial statements, present value theory, risk/return analysis, leverage, cost of capital, resource allocation models.

*Prerequisites:* AK/ADMS 2510 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0; AK/ADMS 3320 3.0.

*Degree credit exclusions:* AS/ECON 4400 3.0, AK/ADMS 4540 3.0.

*Note:* Use of an IBM-compatible computer required.

**AK/ADMS 3541 3.0 Personal Financial Planning.** Introduces financial planning techniques used in professional practice, and follows through the steps and methods involved in developing personal financial plans. Topics include taxation, investment alternatives, targeting savings levels, insurance, retirement planning and relevant legislation.

*Prerequisites:* AK/ADMS 2500 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0.

*Note:* Not open to students who have completed AK/ADMS 3130B 3.0.

**AK/ADMS 3570 3.0 Corporate Reporting Issues.** Focuses on selected accounting topics and develops an in-depth knowledge of the generally accepted accounting principles and financial statement reporting practices for those topics in Canada. The principles will be applied to a number of cases and problem situations.

*Prerequisites:* AK/ADMS 2500 3.0; AK/ECON 1010 3.0.

*Note 1: This course is an alternative to AK/ADMS 3585 3.0 and AK/ADMS 3595 3.0 for students who do not wish to take further courses in financial accounting.*

*Note 2: Not open to students who have taken AK/ADMS 3500 6.0, AK/ADMS 3580 3.0 or AK/ADMS 3590 3.0.*

**AK/ADMS 3585 3.0 Intermediate Financial Accounting I.** This course, in conjunction with AK/ADMS 3595 3.0, develops thorough knowledge and understanding of generally accepted accounting principles and financial statement analytical skills by examining various technical areas of financial accounting.

*Prerequisites:* AK/ADMS 2500 3.0; AK/ECON 1010 3.0.

*Note: Not open to students who are taking or have taken AK/ADMS 3500 6.0, AK/ADMS 3570 3.0, AK/ADMS 3590 3.0.*

**AK/ADMS 3595 3.0 Intermediate Financial Accounting II.** This course is a continuation of AK/ADMS 3585 3.0. It develops a thorough knowledge and understanding of generally accepted accounting principles and financial statement reporting practices in Canada.

*Prerequisite:* AK/ADMS 3585 3.0.

*Note: Not open to students who are taking or have taken AK/ADMS 3500 6.0, AK/ADMS 3570 3.0, AK/ADMS 3590 3.0.*

**AK/ADMS 3610 3.0 Elements of Law: Part I.** This course seeks to give insight into the role of the lawyer in relation to that of the judge, legislator and administrator in moulding the law. Against this general background various legal principles and theories are examined so as to equip the student to analyze and define legal issues.

*Prerequisite:* AK/ADMS 1000 3.0.

*Degree credit exclusions:* AS/POLS 3165 6.0 and AS/SOSC 3165 6.0, AS/ECON 4500 3.0.

**AK/ADMS 3620 3.0 Elements of Law: Part II.** An examination of more advanced topics of private law with emphasis being laid on areas related to the organization and management of business relations.

*Prerequisite:* AK/ADMS 3610 3.0.

*Degree credit exclusions:* AS/POLS 3165 6.0 and AS/SOSC 3165 6.0, AS/ECON 4510 3.0.

*Note: Not open to students who have completed AK/ADMS 4020 6.0.*

**AK/ADMS 3630 3.0 Corporation Law.** This course provides students who have a particular interest in the management of limited companies with an understanding of the legal requirements of these entities through an examination of the history of their development, the laws under which limited companies exist, and the methods of management.

*Prerequisite:* AK/ADMS 3610 3.0.

**AK/ADMS 3640 6.0 Constitutional Law.** An examination of the legal aspects of the distribution of legislative power in Canada with particular reference to its impact on the constitutional powers relating to business activity, taxation, criminal law and the administrative law process.

*Prerequisite:* AK/ADMS 3610 3.0.

*Note: Not open to students who have taken AK/ADMS 4120 6.0 or AK/ADMS 4620 6.0.*

**AK/ADMS 3710 3.0 Comparative Health Administration.** A study of the health administrative systems in a variety of countries. Emphasis will be placed upon the issues and problems of health systems in both developed and developing countries, the strategies that have been developed to deliver health care, and the role of the formal and informal sectors in the health care field.

*Note: Not open to students who have taken AK/ADMS 3420 6.0.*

**AK/ADMS 3720 3.0 (ADMS 4770 3.0) Program Evaluation in Health Care Part I.** A blend of theory and practice that provides students with an understanding of the concepts and implementation of program evaluation in health care. Students develop the ability to critique program evaluation reports and develop a proposal to evaluate a program.

*Cross-listed to:* AK/NURS 3500 3.0, AK/NURS 4500 3.0.

*Prerequisite:* For BScN students AK/NURS 3300 3.0 or AK/NURS 2700 6.0. All other students AK/ADMS 2300 6.0 or, for students with equivalent preparation, permission of the Director of Nursing.

*Note: Not open to students who have completed AK/ADMS 3130Q 3.0, or AK/NURS 3500 3.0, or AK/NURS 4500 3.0 or AK/ADMS 4770 3.0.*

**AK/ADMS 3740 3.0 Health and Aging.** A review of the epidemiology of acute and chronic disease as it informs the problem of providing health care and health services for an aging population. Special attention is given to societal implications of health problems characteristic of elderly populations.

*Note: Not open to students who have completed AK/ADMS 3130S 3.0.*

**AK/ADMS 3750 3.0 Behavioural and Social Aspects of Health.** This course explores the role of behavioural and social factors in determining health status and the effectiveness of health care. It addresses such topics as health beliefs, attitude and prejudice, communication processes, culture, environment, stress and life transitions and crises.

*Note: Not open to students who have completed AK/ADMS 3130T 3.0.*

**AK/ADMS 3760 3.0 Financial Management in Health Care Institutions.** This course introduces students to the financial management techniques that are practised, or could be implemented, to improve the operations of various organizations in the Canadian health care delivery system. It examines the financial problems and issues that exist within the system.

*Prerequisite:* AK/ADMS 2510 3.0.

**AK/ADMS 3810 3.0 Introduction to Real Estate.** This course provides an overview of the various aspects of real estate administration for non-specialists as well as those students intending to take other real estate courses.

*Prerequisite:* AK/ADMS 1000 3.0.

**AK/ADMS 3815 3.0 Intermediate Real Estate Valuation.** This course introduces graphical, mathematical and statistical techniques used in valuation. The techniques are then applied to areas such as basic financial problems, mass appraisal, mortgage equity, leases, capital gains and expropriation.

*Prerequisites:* AK/ADMS 2800 3.0 and AK/ADMS 2810 3.0.

*Note: Not open to students who have taken AK/URST 3520 3.0.*

**AK/ADMS 3820 3.0 Real Estate Law I.** A discussion of the development of the law of real property in the context of the common law and current legislation. Emphasis will be placed on practical considerations in the methods of the lawyer and the businessman in arriving at their conclusions.

*Prerequisite:* AK/ADMS 3810 3.0.

*Note 1: Not open to students who have taken AK/ADMS 3130 3.0 (Real Estate Law).*

*Note 2: Students are strongly recommended to complete AK/ADMS 3610 3.0 (Elements of Law Part I) before taking this course.*

**AK/ADMS 3825 3.0 Topics in Real Estate Valuation.** This course examines various methods used to value real estate for investment purposes.

*Prerequisites:* AK/URST 2450 3.0 and AK/URST 3520 3.0 or, for students with equivalent preparation, permission of the Urban Studies Coordinator.

*Note:* Not open to students who have taken AK/URST 3530 3.0.

**AK/ADMS 3830 3.0 Property Management.** This course is designed to provide a survey of the factors involved in management of residential and commercial property. Topics covered include: the manager-tenant relationship, financial planning and control, advertising, personnel selection and training, maintenance and renovation of premises and physical security.

*Prerequisite:* AK/ADMS 3810 3.0.

**AK/ADMS 3850 3.0 Real Property Assessment and Taxation.** This course explores the real property assessment and taxation functions as governed by the Assessment Act. Topics covered are: the meaning and application of the Assessment Act; appeal provisions; assessment tribunals; procedures before the County Judge and the Ontario Municipal Board; taxation liability; rights and limitations of an assessor and the preparation of the Assessment Roll.

*Prerequisite:* AK/ADMS 3810 3.0.

**AK/ADMS 3860 3.0 Real Estate Law II.** A more in-depth treatment of real estate law, incorporating previously learned principles within a broader framework of case law and taxation and business considerations.

*Prerequisite:* AK/ADMS 3820 3.0.

**AK/ADMS 3870 3.0 Real Estate Finance I.** An introduction to real estate finance and investment analysis, focusing on fundamental techniques and the application of these techniques to the financing practices in real estate and investment analysis.

*Prerequisite:* AK/ADMS 3810 3.0.

*Note:* Not open to students who have completed AK/ADMS 3840 3.0.

**AK/ADMS 3880 3.0 Real Estate Finance II.** A continuation of Real Estate Finance I. It covers methods of analysis of investment decision, financing of real estate investment, mortgage lending practice and government participation in mortgage lending.

*Prerequisite:* AK/ADMS 3870 3.0.

*Note:* Not open to students who have completed AK/ADMS 3840 3.0.

**AK/ADMS 3890 3.0 Commercial Leasing.** This course provides a foundation for directing acquisitions of commercial accommodation through the medium of a lease. It introduces the student to commercial real estate leasing transactions, which are likely to be among the largest commitments confronted in a business career.

*Prerequisite:* AK/ADMS 3810 3.0.

*Note:* Not open to students who have completed AK/ADMS 3130A 3.0.

**AK/ADMS 3900 3.0 The Practice of General Management.** Instructs participants in the strategic analysis and planning process for medium-sized and large businesses. Models explaining the integration of the functional areas are combined with strategic process models. Modes of instruction include lectures and simulations.

*Prerequisites:* 27 credits within the Administrative Studies major.

*Note 1:* Use of an IBM-compatible computer required.

*Note 2:* Students enrolled in the weekend course **MUST** have completed all their readings prior to the first class. A quiz will be administered on the first weekend: students who fail the quiz may be required to withdraw after a personal interview with the course director.

**AK/ADMS 3920 3.0 New Venture and Small Business Management.** An understanding of the entrepreneurial process, from idea generation to new enterprise creation, is developed through lectures, case studies and simulations. The functional topic areas of business are developed as they relate specifically to planning for new ventures (including entrepreneurship) and small business management.

*Prerequisites:* AK/ADMS 1000 3.0; AK/ADMS 2500 3.0.

**AK/ADMS 3960 3.0 International Business.** Issues and problems facing the manager in the international environment. Areas of study include multinational corporation, factors leading to successful performance, analysis of basic managerial functions in different countries, assessment of the nature and scope of international business and global business strategy.

*Prerequisite:* AK/ADMS 1000 3.0.

*Note:* Not open to students who have completed AK/ADMS 3130H 3.0.

## Honours Level Courses

**AK/ADMS 4000 3.0 (4000 6.0) Directed Reading.** A reading and research course suited to students with special interests. Students will select areas of study in consultation with an appropriate faculty member.

*Prerequisites:* 78 credits including AK/ADMS 1000 3.0, AK/ECON 1000 3.0; AK/ECON 1010 3.0 and 6 credits in quantitative methods. Open only to students in Honours programs.

*Note:* Students must be accepted by a faculty supervisor before they can register in 4000-level Directed Reading courses. The course transaction form for such courses must be submitted with a note from the supervisor stating his/her willingness to perform this task. Permission of the Director is also required.

**AK/ADMS 4010 3.0 Organization and Administrative Theory.** This course examines in depth the development of administrative thought and organizational theories. Current organizational theories will be related to contemporary administrative society.

*Prerequisites:* For students in the Honours program, 78 credits including AK/ADMS 2400 3.0 or 2) a grade of "B" or better in AK/ADMS 2400 3.0.

**AK/ADMS 4050 3.0 Advanced Industrial Relations.** Collective employer-employee relations: the structure, function and government of the modern trade union movement. Labour legislation, collective bargaining process and procedures, and public policy towards industrial relations.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3422 3.0 or 2) Other students, a grade of B or better in AK/ADMS 3422 3.0.

**AK/ADMS 4120 3.0 (3120 3.0) Gender Issues in Management.**

Uses feminist principles and pedagogy to examine gender issues relevant to managing career and life, including for example pay equity, harassment, stereotyping, power and assertiveness, diversity, mentoring, self-care and balance, with the goal of understanding issues and effecting change.

*Prerequisite:* None.

*Note 1:* Not open to students who have taken AK/ADMS 3120 3.0, AK/ADMS 3130G 3.0, AK/WMST 3001J 3.0 or AK/WMST 3120 3.0.

*Note 2: Students may take this course only once as either a 3000 or 4000 level course, but not both and the level may not be changed retroactively.*

*Note 3: The course workload is heavier for those who take the course at the 4000 level.*

**AK/ADMS 4130 3.0 (4130 6.0) Special Topics.** The instructor and subject of this seminar course will vary from session to session. Special Topics courses may be offered in the Summer and Fall/Winter Sessions. Details will be available prior to the registration period for each Session.

- D. Case Management in Health Care (3.0)
- G. Green Business: Facing the Environmental Challenge (3.0)
- H. History of Accounting (3.0)
- J. International Accounting (3.0)
- K. Social and Environmental Issues in Accounting Curriculum (3.0)
- L. Accounting for the New Economy (3.0)

**AK/ADMS 4130L 3.0 Accounting for the New Economy.** Presents recent initiatives in accounting practice regarding the development of accounting methods to communicate financial and non-financial corporate performance measures to multiple stakeholders. Topics include financial and non-financial performance measurement and reporting, valuation of intellectual and human capital and social and environmental sustainability reporting.

**AK/ADMS 4210 3.0 International Marketing.** A study of the management of international marketing activities. Emphasis is placed upon policy and strategy formulation and the environmental constraints within which these activities take place.

*Prerequisites:* 1) For students in an Honours program, 78 credits, including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4215 3.0 Business to Business Marketing.** Focuses on problems and concepts particular to business-to-business marketing. The basic marketing concepts introduced in AK/ADMS 3200 3.0 along with a conceptual framework of organization buyer behaviour are utilized to illustrate the unique nature and challenges of this market.

*Prerequisites:* 1) For students in an Honours program, 78 credits including AK/ADMS 3200 3.0, or 2) Other students, a grade of B or better in AK/ADMS 3200 3.0.

*Note: Not open to students who have taken AK/ADMS 3210 3.0.*

**AK/ADMS 4220 3.0 Consumer Behaviour.** Introduces students to the general perspectives currently taken in the study of consumer behaviour. Emphasis is on consumer decision processes and the influence of social, cultural and psychological factors on consumer behaviour, including a segment on women as consumers.

*Prerequisites:* 1) For students in an Honours program, 78 credits, including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4225 3.0 Retailing Management.** Develops a framework for identifying, appraising and formulating retail marketing strategies; stresses the interrelationships among manufacturers, distributors and final consumers. Areas studied include trade area analysis, design and layout, merchandising and inventory control, retail math, trends and technology in retailing.

*Prerequisites:* 1) For students in an Honours program, 78 credits including AK/ADMS 3200 3.0, or 2) Other students, a grade of B or better in AK/ADMS 3200 3.0.

*Note: Not open to students who have taken AK/ADMS 3260 3.0.*

**AK/ADMS 4230 3.0 Marketing Channels.** Integrates theory and practice of Marketing Distribution Channels, concentrating on power and conflict and interrelationships with strategic planning, make or buy decisions, and transaction cost analysis. The course utilizes textbook, recent journal articles, seminar participation, and cases.

*Prerequisites:* 1) For students in an Honours program, 78 credits, including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4235 3.0 Product Management.** This course examines marketing decisions involved in product management, giving student experience in tackling typical problems facing a brand or product manager. Strong managerial and case study emphasis, centring on consumer products with some discussion of industrial marketing.

*Prerequisites:* 1) For students in an Honours program, 78 credits including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

*Note: Not open to students who have taken AK/ADMS 3270 3.0.*

**AK/ADMS 4240 3.0 Advertising and Communications.** Focuses on advertising and sales promotion within the marketing mix. Students are expected to master terminology, theory and application. Course uses lecture, case studies and a project involving development of marketing plan.

*Prerequisites:* 1) For students in an Honours program, 78 credits, including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4250 3.0 Marketing Strategy.** Uses a variety of methods such as lecture, case study and computer simulation to provide integration of knowledge and practical experience in strategic decision making in marketing.

*Prerequisites:* 1) For students in an Honours program, 78 credits, including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4260 3.0 Marketing Research I.** Topics include experimental design, sample, questionnaire, data collection, measurement scales and accuracy, probability and statistical analysis, hypothesis testing, and chi squared tests in marketing. Students prepare a major research project in the context of an actual marketing organization.

*Prerequisites:* 1) For students in an Honours program, 78 credits including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4265 3.0 Marketing Research II (Survey Design).**

Deals with different sampling techniques and their applications to marketing problems. Survey design, pilot surveys, use of focus groups, in-person interviews, mail surveys and polling, will also be dealt with.

*Prerequisites:* 1) For students in an Honours program, 78 credits including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4270 3.0 Psychology of Special Markets.** Examines marketing of goods and services, such as health care to special groups of consumers, such as the elderly, physically disabled and environmentally sensitive. Explores the need for reliable information about behavioural and attitudinal characteristics and how to obtain this information.

*Prerequisites:* 1) For students in an Honours program, 78 credits, including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

*Note: Not open to students who have taken AK/ADMS 4130A 3.0.*

**AK/ADMS 4275 3.0 Services Marketing.** Looks at the marketing of services including; what makes services different from other products, strategies for service marketing; pricing; promotion; distribution and service quality. Investigates all aspects of service marketing covering many service environments from large service firms, such as banking, to individual services such as accounting services.

*Prerequisites:* 1) For students in an Honours program, 78 credits, including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4280 3.0 Social Marketing.** This course examines issues of social responsibility in business and how marketing theory and techniques may be used to promote more environmentally and socially conscious business practices: it includes ethics, feminism, social marketing and other areas determined by student interest.

*Prerequisites:* 1) For students in an Honours program, 78 credits, including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4290 3.0 Marketing For Competitive Advantage.** A study of the conceptual and analytical tools needed to survive in today's increased domestic and international competition. Includes such areas as: understanding current and future competitors, locating data sources, developing integrated analytical systems and business strategies.

*Prerequisites:* 1) For students in an Honours program, 78 credits including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4295 6.0 Philosophical and Ethical Issues in the Mass Media.** Examines different modes of argumentation in editorial content, news coverage and advertising, particularly ethical issues involved in the relation between arguments based in logic and those based in emotion. Other topics include rhetoric, persuasion, ideology and propaganda.

*Cross-listed to:* AK/PHIL 4030K 6.0.

*Prerequisites:* 1) For students in an Honours program, 78 credits including AK/ADMS 3200 3.0, or 2) other students, a grade of B or better in AK/ADMS 3200 3.0.

**AK/ADMS 4300 3.0 Decision Making.** Many complex decision problems are not amenable to treatment by conventional mathematical modelling techniques. This course explores new methods of dealing with such problems and includes treatment of a variety of decision problems arising in modern society.

*Prerequisites:* 78 credits including AK/ADMS 3300 3.0; AK/ECON 1000 3.0 and 6 credits in quantitative methods. Open only to students in Honours programs.

*Note:* Not open to students who have taken AK/ADMS 4300 6.0.

**AK/ADMS 4310 3.0 Information Systems.** Information systems support decision making in organizations. The relationship between decision making and the design of information systems is the major theme of this course.

*Prerequisites:* 78 credits including AK/ADMS 3300 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0 and 6 credits in quantitative methods. Open only to students in Honours programs.

*Note:* Not open to students who have taken AK/ADMS 4300 6.0.

**AK/ADMS 4320 3.0 Strategic and Implementation Planning.** Strategic planning is described as the choice of future directions and activities for an organization. The first half of the course treats the formulation of a strategic plan. The second half deals with the derivation of operational plans from the strategic plan. The role of negotiation in the implementation of strategic plans is also considered.

*Prerequisites:* 78 credits including AK/ADMS 3300 3.0; AK/ADMS 4300 3.0; AK/ADMS 4900 3.0 and 6 credits in quantitative methods. Open only to students in Honours programs.

**AK/ADMS 4370 3.0 Statistical Data Analysis Systems.** Provides working knowledge of MS Windows based data analysis software such as SAS, SPSS, and STATA. Covers such statistical techniques as data visualization and summary, analysis of contingency tables, linear and logistic regressions, and nonparametric methods.

*Prerequisites:* AK/ADMS 3320 3.0 and AK/ADMS 3330 3.0; or equivalent.

*Cross-listed to:* AK/MATH 4035 3.0.

*Note:* Requires access to a personal computer that runs Windows 95+, with internet access. For students without personal access to these computing requirements, university microlabs are available.

**AK/ADMS 4410 3.0 Strategic Human Resources Management.** Examines the evolution of the HR role, the trends that impact on HRM, the threats and opportunities affecting the HR function. Discusses strategy, action plans, priority management, measurement of results, and competencies.

*Prerequisites:* AK/ADMS 2600 3.0, AK/ADMS 3400 3.0, AK/ADMS 3410 3.0, AK/ADMS 3422 3.0, AK/ADMS 3430 3.0, AK/ADMS 3470 3.0, AK/ADMS 3490 3.0, AK/ADMS 3420 3.0.

**AK/ADMS 4420 3.0 Human Resources Research Methods.** This course examines the research function in HRM. Topics include measurement and evaluation, as well as experimental, survey and qualitative research methods. Emphasis is placed on how to design research to measure and evaluate HRM programs.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0 or 2) other students, a grade of B or better in AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0.

**AK/ADMS 4430 3.0 Career Management.** Provides students with the theory and skills to manage careers, the careers of employees, and the career process within organizations.

*Prerequisites:* AK/ADMS 3410 3.0; AK/ADMS 3440 3.0, AK/ADMS 2600 3.0; AK/PSYC 2410 6.0.

**AK/ADMS 4440 3.0 Issues in Human Resource Management.** This course examines current issues in HRM including downsizing, contingency workers, training transfer, stress related diseases, ethics, outsourcing. Students are active participants in the identification and delineation of trends.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0 or 2) other students, a grade of B or better in AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0.

**AK/ADMS 4460 3.0 Organizational Development.** Examines the design and implementation of programs for employee development at various organizational levels. Emphasis is placed on the integration of theoretical and experiential knowledge and the development of intervention skills as aids to understanding and responding to change in organizations.

*Prerequisites:* For students in the Honours program, 78 credits including AK/ADMS 2400 3.0 or b) Other students, a grade of B or better in AK/ADMS 2400 3.0.

*Note:* Not open to students who have taken AK/ADMS 3450 3.0.

**AK/ADMS 4470 3.0 Issues in International Human Resources Management.** Outlines the differences between domestic and international Human Resources Management with specific emphasis on staffing, training, management development, compensation and benefits, union and employee relations. HRM practices in other countries are identified.

*Prerequisites:* AK/ADMS 3480 3.0 or AK/ADMS 2600 3.0; AK/ADMS 3410 3.0; AK/ADMS 3422 3.0; AK/ADMS 3430 3.0; AK/ADMS 3470 3.0; AK/ADMS 3490 3.0.

**AK/ADMS 4500 6.0 Seminar in Advanced Topics in Finance.** Practical applications of advanced theories and techniques of finance. Content of the course will depend to some extent on the interests of the students.

*Prerequisites:* 78 credits including AK/ADMS 4540 3.0 and 6 credits in quantitative methods. Open only to students in Honours programs.

**AK/ADMS 4500 3.0 Investment Analysis and Portfolio Management.** Familiarizes students with the investment process. The process is seen as consisting of security analysis, portfolio management and investment counselling, all within the context of an "almost efficient" market. Selected pieces of empirical work will also be considered.

*Prerequisites:* 78 credits including AK/ADMS 3530 3.0. Open only to students in Honours programs.

**AK/ADMS 4510 3.0 Accounting Theory and Contemporary Issues.** This course examines the nature of accounting, accounting theory and the extent to which it applies to current accounting practice as well as certain contemporary issues in accounting. The preparation of a major paper is also required.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3595 3.0, AK/ECON 1000 3.0; or 2) other students, these above-listed courses and an average grade of "B" or better in AK/ADMS 3585 3.0 and AK/ADMS 3595 3.0.

**AK/ADMS 4515 3.0 The Internal Audit.** Introduces students to the objectives, concepts, principles and techniques of internal and management auditing, as applied to profit-pursuing, non-profit and government organizations.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 2500 3.0; AK/ADMS 2510 3.0; or 2) other students an average grade of B or better in AK/ADMS 2500 3.0 and AK/ADMS 2510 3.0.

*Note:* This course is not open to students who have completed AK/ADMS 3515 3.0.

**AK/ADMS 4519 3.0 Managerial Cost Accounting and Analysis.** Same as AK/ADMS 3510 3.0 with an applied independent project on the application of computers to accounting.

*Prerequisites:* AK/ADMS 2500 3.0; AK/ADMS 2510 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0; AK/ADMS 3320 3.0; AK/COSC 3501 3.0 (or AK/AS/SC COSC 2011 3.0).

**AK/ADMS 4520 3.0 Advanced Financial Accounting I.** This course covers the accounting for business combinations, long-term investments and affiliated companies. It also covers certain areas of accounting, like interim and segment reporting, which are specific to financial reporting by companies whose securities are publicly traded.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3595 3.0; AK/ECON 1000 3.0; or 2) other students, these above-listed courses and an average grade of "B" or better in AK/ADMS 3585 3.0 and AK/ADMS 3595 3.0.

**AK/ADMS 4530 3.0 Advanced Financial Accounting II.** This course covers certain advanced accounting topics, like accounting for the non-profit sector and the alternative reporting models, not covered in the intermediate financial accounting courses.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3595 3.0; or 2) other students, these above-listed courses and an average grade of "B" or better in AK/ADMS 3585 3.0 and AK/ADMS 3595 3.0.

**AK/ADMS 4540 3.0 Financial Management.** This course requires concepts developed in AK/ADMS 3530 3.0 and new issues are presented which affect financial managers. Topics will include market efficiency and portfolio theory basics which have important implications in financial management procedures and financial statement analysis.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3530 3.0; and 6 credits in quantitative methods, or 2) other students, these above-listed courses and a grade of "B" or better in AK/ADMS 3530 3.0.

*Degree credit exclusions:* AS/ECON 4400 3.0, AK/ADMS 3530 3.0.

**AK/ADMS 4551 3.0 Auditing and Other Assurance Services.** Covers engagements to provide assurance on financial statements (audits and reviews). Topics include professional standards; rules of conduct; ethical considerations; audit and review objectives, audit evidence; development and execution of audit strategies, sampling methods, audit and review reports, and non-assurance (compilation) engagements.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3585 3.0; AK/ECON 1000 or equivalent 3.0; or 2) other students, these above-listed courses and an average grade of "B" or better in AK/ADMS 3585 3.0.

**AK/ADMS 4552 3.0 Information Systems Audits.** Covers the audit of computer-based information systems. Topics include business/accounting information system applications, information systems risks, management controls, control evaluation, audit strategies and computer assisted audit techniques.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3595 3.0; AK/ADMS 4551 3.0; or 2) other students, these above-listed courses and an average grade of "B" or better in AK/ADMS 3585 3.0 and AK/ADMS 3595 3.0.

*Prerequisite or corequisite:* AK/ADMS 3511 3.0 or AK/COSC 1200 3.0 or AK/COSC 1520 3.0.

**AK/ADMS 4553 3.0 Auditing: Advanced Topics.** Examines current and advanced issues affecting the audit profession. Coverage may include the public's expectations of audits, auditor liability, and various types of engagements such as special reports, prospectuses, future oriented financial information, pension plans, public sector audits, comprehensive and forensic audits.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3595 3.0; AK/ADMS 4551 3.0; or 2) other students, these above-listed courses and an average grade of "B" or better in AK/ADMS 3585 3.0 and AK/ADMS 3595 3.0.

**AK/ADMS 4560 3.0 Income Taxation in Canada-Advanced Seminar.** Builds on technical knowledge in other tax courses and applies it to practical problems and cases. Topics include recent Supreme Court decisions, planning for executive compensation, retirement, immigration, emigration, start-up and purchase and sale of a business, corporate reorganizations, wills, estates and trusts, and investing offshore.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 4561 3.0; AK/ADMS 4562 3.0; or 2) other students, these above-listed courses and an average grade of "B" or better in AK/ADMS 4561 3.0 and AK/ADMS 4562 3.0.



**AK/ADMS 4561 3.0 Taxation of Personal Income in Canada.** Together with AK/ADMS 4562 3.0, introduces students to the principles and practice of Canadian taxation and related tax planning, to provide a basic understanding of the Canadian Income Tax Act and its GST implications in relation to the individual.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 2500 3.0 or AK/ADMS 3520 3.0; or 2) other students, a grade of "B" or better in one of the above-listed courses.

**AK/ADMS 4562 3.0 Corporate Income Taxation in Canada.** Together with AK/ADMS 4561 3.0, introduces students to the principles and practice of Canadian taxation and related tax planning, to provide a basic understanding of the Canadian Income Tax Act and its GST implications in relation to corporations, partnerships and trusts.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 2500 3.0 or AK/ADMS 3520 3.0; or 2) other students, a grade of "B" or better in one of the above-listed courses.

**AK/ADMS 4563 3.0 Introduction to U.S. Federal Income Taxation.** An introduction to the taxation of individuals and corporations in the United States of America.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 2500 3.0 or AK/ADMS 3520 3.0; or 2) other students, a grade of "B" or better in one of the above-listed courses.

**AK/ADMS 4570 3.0 Management Planning and Control Systems.** A study of the process by which managers ensure that resources are obtained and used efficiently and effectively in accomplishing organizational objectives. Readings in cost accounting, finance, business policy and social psychology are applied to analyze case studies of actual situations.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3510 3.0 and 6 credits in quantitative methods or 2) other students, these above-listed courses and a grade of "B" or better in AK/ADMS 3510 3.0.

*Note:* Requires PC use but only a few times per term. Consult the course outline.

**AK/ADMS 4580 3.0 Applied Studies in Finance.** The purpose of this course is to apply the material learned in other finance courses. This will be accomplished through case analyses and a major study of financing practices in a major sector of Canadian industry. Emphasis will also be placed on integrating financial decision making within a general management framework.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3530 3.0 or 2) other students, a grade of "B" or better in AK/ADMS 3530 3.0.

**AK/ADMS 4590 3.0 Comprehensive and Multi-subject Accounting Problems.** This course enables students to apply their technical knowledge to complex accounting problems. Students will be required to interrelate the knowledge obtained from individual subject areas in order to identify problems, analyze data and formulate recommendations for action.

*Prerequisites:* 1) For students in the Honours program, 78 credits including AK/ADMS 3510 3.0; AK/ADMS 3530 3.0; AK/ADMS 4510 3.0 (or AK/ADMS 4511 3.0) (or AK/ADMS 4520 3.0 and AK/ADMS 4530 3.0); AK/ADMS 4551 3.0; AK/ADMS 4561 3.0; AK/ADMS 4562 3.0 (or AK/ADMS 3520 3.0), or 2) other students, these above-listed courses and an average grade of "B" or better in AK/ADMS 3585 3.0 and AK/ADMS 3595 3.0.

**AK/ADMS 4610 6.0 Corporate Secretarial Law and Practice.** This course provides a working knowledge of the law and practice affecting meetings, with particular emphasis on the meetings of limited companies, the duties of Corporate Secretaries and the statutory provisions affecting their duties.

*Prerequisites:* 78 credits including AK/ADMS 1000 3.0. Open only to students in Honours programs.

**AK/ADMS 4630 3.0 Administrative Law: Part I.** This course discusses the general theory and principles of Administrative Law and deals with constitutional considerations, administrative procedure, judicial review and legal remedies in the administrative sphere.

*Prerequisites:* 78 credits including AK/ADMS 1000 3.0. Open only to students in Honours programs.

*Note:* AK/ADMS 3640 6.0 Constitutional Law is recommended prior to the above course.

**AK/ADMS 4640 3.0 Administrative Law: Part II.** A discussion of the practical application of the general theory and principles of Administrative Law in a number of selected fields through a detailed examination of the workings of selected administrative agencies.

*Prerequisites:* 78 credits including AK/ADMS 4630 3.0. Open only to students in Honours programs.

**AK/ADMS 4650 3.0 International Institutions and International Law.** An examination of the principles and rules of conduct which states observe in their relationships with one another, and with institutions, and of the legal organization of modern international society.

*Prerequisites:* 78 credits including AK/ADMS 2430 3.0. Open only to students in Honours programs.

**AK/ADMS 4700 3.0 Sociology of Health Care.** This course treats the sociological aspects of health. The ways in which people's social behaviour influences their chances of staying well, becoming ill or responding to health care are examined.

*Prerequisites:* 1) For students in the Honours program, 72 credits including AK/ADMS 1000 3.0 and AK/ADMS 2300 6.0 or 6 credits in quantitative methods; or 2) other students, 72 credits and an overall average grade of "B" or better.

**AK/ADMS 4710 3.0 The Canadian Health Care System.** The components of the Canadian health care system; roles played by governments, professional organizations; contemporary issues of cost control; organization and delivery of health services.

*Cross-listed to:* AK/NURS 4710 3.0.

*Prerequisites:* 72 credits. 1) For BScN students AK/NURS 3300 3.0; or 2) other Honours students AK/ADMS 2300 6.0 or 6 credits in quantitative methods; or 3) Other students, 72 credits and an overall average grade of "B" or better.

**AK/ADMS 4720 3.0 Management of Health Facilities.** Examination of current trends and future directions in health facility management with emphasis on the evolving role of the executive officers. Areas covered include multi-hospital organizations, consolidations and mergers, relationships with external organizations, political and public influence on policy formulation.

*Prerequisites:* 1) For students in the Honours program, 72 credits including AK/ADMS 1000 3.0 and AK/ADMS 2300 6.0 or 6 credits in quantitative methods; or 2) Other students, 72 credits and an overall average grade of "B" or better.

**AK/ADMS 4730 3.0 Health Care Planning.** This course addresses strategic planning for Health Care organizations from issue identification and prioritization to implementation and evaluation. The course integrates prior knowledge and skills enabling students to systematically analyze institutional Health Care issues.

*Prerequisites:* 1) For students in the Honours program, 72 credits including AK/ADMS 1000 3.0 and AK/ADMS 2300 6.0 or 6 credits in quantitative methods; or 2) other students, 72 credits and an overall average grade of "B" or better.

**AK/ADMS 4740 3.0 Health Care Law.** Legislation relevant to health care; consent to treatment; cases of negligence; medical staff privileges; release of information.

*Cross-listed to:* AK/HLST 4000 3.0.

*Prerequisites:* 1) For students in the Honours program, 72 credits including AK/ADMS 1000 3.0 and AK/ADMS 2300 6.0 or 6 credits in quantitative methods; or 2) Other students, 72 credits and an overall average grade of "B" or better.

*Note:* AK/ADMS 3610 3.0 *Elements of Law Part I* is recommended.

**AK/ADMS 4750 3.0 Current Issues for Health Care Professionals.** This course examines the concept of professionalism, the role of professional associations in the health care field, ethical and legal issues facing health care professionals, and current legislation governing health care professionals.

*Cross-listed to:* AK/NURS 4750 3.0.

*Prerequisites:* 60 credits.

*Note:* Not open to students in the Collaborative BScN program.

**AK/ADMS 4760 3.0 Managerial & Leadership Competencies.** This course is specifically designed to give students a "hands-on" application of key managerial/leadership competencies. It allows students to assess and understand their own managerial strengths and weaknesses and to develop a more well rounded repertoire of skills.

*Cross-listed to:* AK/HLST 4220 and AK/NURS 4740 3.0.

*Prerequisite:* AK/NURS 3770 3.0 or AK/ADMS 3440 3.0 or equivalents.

*Note:* Not open to students who have taken AK/ADMS 4130L 3.0 before Fall 2001 or who have taken AK/HLST 4220 or AK/NURS 4740 3.0.

**AK/ADMS 4770 3.0 (ADMS 3720 3.0) Program Evaluation in Health Care Part I.** A blend of theory and practice that provides students with an understanding of the concepts and implementation of program evaluation in health care. Students develop the ability to critique program evaluation reports and develop a proposal to evaluate a program.

*Cross-listed to:* AK/NURS 3500 3.0, AK/NURS 4500 3.0.

*Prerequisite:* For BScN students AK/NURS 3300 3.0 or AK/NURS 2700 6.0. All other students AK/ADMS 2300 6.0 or, for students with equivalent preparation, permission of the Director of Nursing.

*Note:* Not open to students who have completed AK/ADMS 3130Q 3.0, or AK/NURS 3500 3.0, or AK/NURS 4500 3.0 or AK/ADMS 3720 3.0.

**AK/ADMS 4780 3.0 Program Evaluation in Health Care Part II.** An opportunity for students to further their knowledge of the methodology of program evaluation through practical experience in completing a program evaluation and assessing a program evaluation done by another student.

*Cross-listed to:* AK/NURS 4510 3.0.

*Prerequisites:* AK/ADMS 3720 3.0, or AK/ADMS 4770 3.0/AK/NURS 3500 3.0, or AK/NURS 4500 3.0.

*Note:* Not open to students who have completed AK/ADMS 3130R 3.0.

**AK/ADMS 4810 3.0 Property Ownership and Government Housing Policy.** The nature of private and public property ownership will be examined in the light of conservative, liberal and socialist theory. Housing policy as it has evolved in Canada will then be discussed and compared to housing policy in the U.S., the U.K. and other selected European countries.

*Prerequisites:* 78 credits including AK/ADMS 2430 3.0; AK/ADMS 3810 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0. Open only to students in Honours programs.

**AK/ADMS 4820 3.0 Negotiation in Real Estate Transactions.** This course covers theoretical and practical approaches to the subject of negotiation, with particular reference to situations that arise in real estate transactions. The strategic aspects of such situations are covered first, covering such aspects as the participants possible final outcomes and the preferences of participants for these outcomes. This is followed by a treatment of the choice of tactics designed to ensure a successful outcome from the point of view of a particular participant.

*Prerequisites:* 78 credits including AK/ADMS 3300 3.0; AK/ADMS 3810 3.0. Open only to students in Honours programs.

**AK/ADMS 4830 3.0 Advanced Real Estate Finance.** This course is intended as an advanced course drawing on material learned in the previous real estate finance course and applying these concepts to real-life case studies. In addition, this course will examine real estate analysis within the broader context of financial markets in Canada and internationally.

*Prerequisites:* 78 credits including AK/ADMS 3870 3.0. Open only to students in Honours programs.

**AK/ADMS 4900 3.0 Management Policy Part I.** Strategy and policy identification, formulation and evaluation are developed through lectures and case discussions. Emphasis is on integration of Administrative Studies, subject areas with which the student has previously become familiar; to provide a framework for the analysis of strategic problems of general management.

*Prerequisites:* 78 credits including AK/ADMS 1000 3.0 or equivalents; AK/ECON 1000 3.0; AK/ECON 1010 3.0 and 6 credits in quantitative methods. Open only to students in Honours programs.

*Note:* Use of an IBM-compatible computer required.

**AK/ADMS 4910 3.0 Management Policy Part II.** This course continues the study of strategy and Policy begun in Part I. Emphasis is placed upon strategy and policy implementation, planning and other related issues. Decision-making processes which facilitate these activities are dealt with in lectures and utilized in practical exercises.

*Prerequisites:* 78 credits including AK/ADMS 4900 3.0 and 6 credits in quantitative methods. Open only to students in Honours programs.

**AK/ADMS 4930 6.0 Organizational Simulation Studies.** Applies computer-based simulation techniques to a real organization. Data gathering, model building and testing for optimization of parameters are done as a group project. Students act as members of consulting team and present report to management.

*Prerequisites:* 78 credits including AK/ADMS 1000 3.0; AK/ECON 1000 3.0; AK/ECON 1010 3.0 and 6 credits in quantitative methods. Open only to students in Honours programs.

The following courses are offered specifically for the Health Studies/Health Administration programs in the School of Administrative Studies.

- AK/ADMS 2300 6.0 Research Methods in Health Studies
- AK/ADMS 3710 3.0 Comparative Health Administration
- AK/ADMS 3720 3.0 (4770 3.0) Program Evaluation in Health Care Part I
- AK/ADMS 3740 3.0 Health and Aging

AK/ADMS 3750 3.0 Behavioural and Social Aspects of Health  
 AK/ADMS 3760 3.0 Financial Management in Health Care Institutions  
 AK/ADMS 4760 3.0 Managerial and Leadership Competencies  
 AK/ADMS 4780 3.0 Program Evaluation in Health Care Part II

## Canadian Studies

### Office:

School of Arts and Letters  
 Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

*Prerequisite:* A 1000-level course in Humanities and a 1000-level course in Social Science (Canadian perspectives are recommended). The second General Education course may be taken concurrently with Introduction to Canadian Studies AK/CDNS 2200 6.0.

**AK/CDNS 2200 6.0 Introduction to Canadian Studies.** An interdisciplinary introduction to the cultural and social analysis of Canada and a comparison and evaluation of the leading schools of thought concerning the central issues facing Canada.

*Note:* Not open to students who have taken AK/CDNS 2000 6.0 or AK/CDNS 3000 6.0.

**AK/CDNS 3100 3.0 (3100 6.0) Special Topics.** The subject of this course will vary from session to session. Topics include:

- A. Native Peoples of Canada (formerly AK/SOCI 3390K 6.0; cross-listed to: AK/SOCI 3640A 6.0)

**AK/CDNS 3110 3.0 (3110 6.0) Special Topics in Multiculturalism.** The subject of this course will vary from session to session.

- B. African-Canadian History, 1608-1980 (cross-listed to: AK/HIST 3100R 6.0)

**AK/CDNS 3200 6.0 The Folklore of Canada.** A study of research methods in folklore together with an examination of the traditional and popular culture of groups in Canada such as the Native Peoples, the Inuit, the Métis, French-Canadians, Anglo-Canadians, Afro-Canadians, Ukrainian-Canadians, Jewish-Canadians.

*Note:* Not open to students who have taken AK/CDNS 3420 6.0.

**AK/CDNS 4000 3.0 (4000 6.0) Special Topics.** The instructor and subject of this seminar will vary from session to session.

*Prerequisites:* 78 credits and permission of the Coordinator of Canadian Studies.

**AK/CDNS 4100 3.0 (4100 6.0) Directed Reading.** Enables students to conduct a detailed independent study with Canadian content. Specific topics must be selected in consultation with an appropriate professor. If interested apply to the Canadian Studies program.

*Prerequisites:* 78 credits and permission of the Coordinator of Canadian Studies.

*Note:* Students must be accepted by a faculty supervisor before they can register in 4000-level Directed Reading full courses (or equivalent). The course transaction form for such courses must be submitted with a note from the supervisor stating his/her willingness to perform this task. Permission of the Program Coordinator is also required.

**AK/CDNS 4200 6.0 Research Seminar in Canadian Studies.** A seminar on research materials and methods, leading to an honours research paper.

*Prerequisites:* 78 credits and permission of the Coordinator of Canadian Studies.

## Additional Courses

Additional courses for major credit on all levels in the Canadian Studies program are listed under their own disciplines. Please see "Program Requirements" in the Programs of Study section for the list.

## Computer Science

### Office (courses are offered through the Faculty of Pure and Applied Sciences):

126 Chemistry and Computer Science Building, Department Office  
 Tel: 416-736-5053, Undergraduate/Graduate Office Tel: 416-736-5334

A supplemental calendar detailing courses and topics to be offered in the next year is available from the department office in March.

For the purpose of satisfying departmental degree requirements, the number of Computer Science credits taken outside the Department of Computer Science may not exceed 6 credits in core areas (here defined to be 1000- and 2000-level Computer Science courses, 3000-level Computer Science courses satisfying the breadth requirement, and, for Specialized Honours students, any required 3000- and 4000-level Computer Science courses) and 12 credits in total.

Computer science courses with "5" as the second digit of the course number may be used to satisfy Faculty degree requirements but do not count as Computer Science major credits.

Courses in Computer Science have three class hours a week for one term (3 credits – course numbers end in "3.0"), unless otherwise indicated.

The Department of Computer Science will not permit any student to take more than 12 Computer Science credits per term in the Fall and Winter terms and 6 Computer Science credits in the Summer Term. Students who work full-time are strongly advised to take no more than 6 credits in any term.

For prerequisite purposes, AS/SC/MATH 1000 3.0 or AS/SC/MATH 1013 3.0 may be substituted in lieu of AK/AS/SC/MATH 1300 3.0. Similarly, AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 may be substituted in lieu of AK/AS/SC/MATH 2221 3.0.

### 1000-Level Courses

#### AK/AS/SC/COSC 1020 3.0 Introduction to Computer Science I.

The main objective of the course is to introduce the student to problem solving using a procedural programming language. The course also covers the tools and techniques of an advanced interactive programming environment and simple data structures and algorithms. Three lecture hours, laboratory exercises.

*Cross-listed to:* AK/AS/ITEC 1020 3.0.

*Prerequisites:* If no university-level mathematics: OAC Calculus and one other OAC in mathematics (normally Finite Mathematics or Algebra and Geometry) taken within the past three years with an average grade of 75 percent in all OAC mathematics and no grade less than 65 percent; otherwise: at least 6 credits of university-level mathematics with a grade average over all MATH credits of C+ or better [B+ or better if it is a service course (second digit is 5) or AK/MATH 1710 6.0]. Recommended: Previous programming experience; for example, a high school programming course or AK/AS/SC/COSC 1530 3.0.

*Degree credit exclusions:* AK/COSC 2200B 3.0, AK/COSC 2410 6.0, AK/COSC 2411 3.0.

#### AK/AS/SC/COSC 1030 3.0 Introduction to Computer Science II.

The main objective of the course is to provide the student with a rudimentary understanding of algorithms and data structures. Three lecture hours, laboratory exercises.

*Cross-listed to:* AK/AS/ITEC 1030 3.0.

*Prerequisites:* AK/AS/SC/COSC 1020 3.0 or AK/COSC 2411 3.0 or AK/AS/ITEC 1020 3.0.

*Degree credit exclusions:* AK/COSC 2410 6.0, AK/COSC 2412 3.0.

**AK/AS/SC/COSC 1520 3.0 Introduction to Computer Use I.** An introduction to the use of computers focusing on concepts of computer technology and organization (hardware and software) and the use of applications such as spreadsheets, database and information retrieval tools for problem solving. The course requires extensive laboratory work.

*Note:* This course is designed for students who are not Computer Science majors. Students who plan to major in Computer Science are advised to take AK/AS/SC/COSC 1020 3.0.

*Degree credit exclusions:* AK/COSC 1200 3.0, AK/COSC 1210 3.0. This course is not open to any student who has passed or is taking AK/AS/SC/COSC 1020 3.0 or AK/COSC 2200B 3.0 or AK/COSC 2410 6.0 or AK/COSC 2411 3.0 or AK/AS/ITEC 1020 3.0.

**AK/AS/SC/COSC 1530 3.0 Introduction to Computer Use II.** Concepts of computer systems and technology - e.g. software engineering, algorithms, programming languages, theory of computation. Practical work focuses on problem solving using a high-level programming language. The course requires extensive laboratory work.

*Note:* This course is designed for students who are not Computer Science majors, but may be used as preparation by those who wish to major in Computer Science but lack programming background. Students who plan to major in Computer Science must also take AK/AS/SC/COSC 1020 3.0 and AK/AS/SC/COSC 1030 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 1540 3.0. This course is not open to any student who has passed or is taking AK/AS/SC/COSC 1020 3.0 or AK/COSC 2200B 3.0 or AK/COSC 2410 6.0 or AK/COSC 2411 3.0 or AK/AS/ITEC 1020 3.0.

**AK/AS/SC/COSC 1540 3.0 Computer Use for the Natural Sciences.** Introduction to problem solving using computers - top down and modular design; implementation in a procedural programming language - control structures, data structures, subprograms; application to simple numerical methods, modelling and simulation in the sciences; use of library subprograms.

*Degree credit exclusions:* AK/AS/SC/COSC 1530 3.0. This course is not open to any student who has passed or is taking AK/AS/SC/COSC 1020 3.0 or AK/COSC 2200B 3.0 or AK/COSC 2410 6.0 or AK/COSC 2411 3.0 or AK/AS/ITEC 1020 3.0.

## 2000-Level Courses

**General Prerequisites.** All 2000-level Computer Science courses require the following **general prerequisites**:

- AK/AS/SC/COSC 1030 3.0 or AK/COSC 2410 6.0 or AK/COSC 2412 3.0 or AK/AS/ITEC 1030 3.0;
- a cumulative grade-point average of 4.5 or better over all completed Computer Science major courses;
- AK/AS/SC/MATH 1090 3.0 or AK/MATH 2441 3.0.

**AK/AS/SC/COSC 2001 3.0 Introduction to Theory of Computation.** Introduction to the theory of computing, including automata theory, formal languages and Turing machines; theoretical models and their applications in various fields of computer science. The emphasis is on practical applications of the theory and concepts rather than formal rigour.

*Prerequisites:* General prerequisites.

*Degree credit exclusion:* AK/COSC 3431 3.0.

**AK/AS/SC/COSC 2011 3.0 Fundamentals of Data Structures.** A study of fundamental data structures and their use in the efficient implementation of algorithms. Topics include abstract data types, lists, stacks, queues, trees and graphs.

*Cross-listed to:* AK/AS/ITEC 2011 3.0.

*Prerequisites:* General prerequisites.

*Degree credit exclusion:* AK/COSC 3501 3.0.

**AK/AS/SC/COSC 2021 3.0 Computer Organization.** Computer structures, digital representation of data, machine languages, instruction execution and addressing techniques. The major functional blocks of a computer: main memory, control unit, arithmetic and logic unit, input/output bus structures, interrupt system, DMA channels, peripheral devices.

*Prerequisites:* General prerequisites.

*Degree credit exclusions:* AK/COSC 3411 3.0, AK/COSC 3412 3.0, AK/COSC 3460 3.0, AK/AS/ITEC 2021 3.0.

**AK/AS/SC/COSC 2031 3.0 Software Tools.** Tools commonly used in the software development process; the C language; shell programming; filters and pipes; version control systems and "make"; debugging and testing.

*Prerequisites:* General prerequisites.

## 3000-Level Courses

**General Prerequisites.** Most 3000-level Computer Science courses require the following **general prerequisites**, in addition to or including any specifically stated in the course outlines below:

- AK/AS/SC/COSC 2011 3.0 or AK/COSC 3501 3.0 or AK/AS/ITEC 2011 3.0;
- at least one of AK/AS/SC/COSC 2001 3.0, AK/AS/SC/COSC 2021 3.0, AK/AS/SC/COSC 2031 3.0, AK/COSC 3411 3.0, AK/COSC 3431 3.0, AK/AS/ITEC 2021 3.0;
- a cumulative grade-point average of 4.5 or better over all completed Computer Science major courses;
- AK/AS/SC/MATH 1300 3.0; AK/AS/SC/MATH 1310 3.0;
- at least one of AK/AS/SC/MATH 2090 3.0, AK/AS/SC/MATH 2221 3.0, AK/AS/SC/MATH 2320 3.0, AK/MATH 2442 3.0.

**AK/AS/SC/COSC 3010 3.0 Special Topics in Computer Science.** Half courses or seminars on particular topics not otherwise available.

*Prerequisites:* Vary depending on the particular topic but include at least the general prerequisites.

**AK/AS/SC/COSC 3101 3.0 Design and Analysis of Algorithms.** Review of fundamental data structures. Analysis of algorithms: time and space complexity. Algorithm design paradigms: divide-and-conquer, exploring graphs, greedy methods, local search, dynamic programming, probabilistic algorithms, computational geometry. NP-complete problems.

*Prerequisites:* General prerequisites, including AK/AS/SC/MATH 2320 3.0 or AK/MATH 2442 3.0.

*Degree credit exclusion:* AK/COSC 3432 3.0.

**AK/AS/SC/COSC 3121 3.0 Introduction to Numerical Computations I.** An introductory course in computational linear algebra. Topics include simple error analysis, linear systems of equations, non-linear equations, linear least squares and interpolation.

*Cross-listed to:* AS/SC/MATH 3241 3.0.

*Prerequisites:* One of AK/AS/SC/COSC 1540 3.0, AK/AS/SC/COSC 2011 3.0, AK/AS/SC/COSC 2031 3.0, AK/COSC 3501 3.0, AK/AS/ITEC 2011 3.0; one of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AK/AS/SC/MATH 1310 3.0; one of AS/SC/MATH 1025 3.0, AS/SC/MATH 2021 3.0, AK/AS/SC/MATH 2221 3.0.

*Degree credit exclusion:* AK/COSC 3511 3.0.

**AK/AS/SC/COSC 3122 3.0 Introduction to Numerical Computations II.** Algorithms and computer methods for solving problems of differentiation, integration, differential equations and an introduction to systems of non-linear equations.

*Cross-listed to:* AS/SC/MATH 3242 3.0.

*Prerequisites:* AK/AS/SC/MATH 2270 3.0; AK/AS/SC/COSC 3121 3.0 or AK/COSC 3511 3.0 or AS/SC/MATH 3241 3.0.

*Degree credit exclusion:* AK/COSC 3512 3.0.

**AK/AS/SC/COSC 3201 3.0 Digital Logic Design.** Introduction to logic design. Analysis and design of combinatorial and sequential circuits. Standard MSI and LSI circuits, programmable logic device (PLD), and their use in the design of digital systems. Reliable design and fault detection. Laboratory experiments.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 2021 3.0 or AK/COSC 3411 3.0 or AK/AS/ITEC 2021 3.0.

**AK/AS/SC/COSC 3211 3.0 Data Communication.** This course covers, in some detail, the first three layers in the OSI computer communication model. It concentrates on the data link and network layers. Examples of local area networks and wide area networks are presented in detail.

*Prerequisites:* General prerequisites; including AK/AS/SC/MATH 2090 3.0, and AK/AS/SC/COSC 2021 3.0 or AK/COSC 3411 3.0 or AK/AS/ITEC 2021 3.0.

*Degree credit exclusion:* AK/COSC 3409A 3.0.

**AK/AS/SC/COSC 3212 3.0 Computer Networks.** This course covers the top four layers in the OSI computer communication model; namely, the transport, session, presentation and application layers; example networks such as ARPANET, SNA and public networks. Finally, it introduces the concept of internetworking.

*Prerequisite:* AK/AS/SC/COSC 3211 3.0 or AK/COSC 3409A 3.0.

*Degree credit exclusion:* AK/COSC 3409B 3.0.

**AK/AS/SC/COSC 3221 3.0 Operating System Fundamentals.** Principles of operating systems. Concurrent processes, CPU scheduling, deadlocks, memory management, file systems, protection and security and case studies. (Formerly AK/AS/SC/COSC 3321 3.0 – before Summer 2000.)

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 2021 3.0 or AK/COSC 3411 3.0 or AK/AS/ITEC 2021 3.0; AK/AS/SC/COSC 2031 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 3321 3.0, AK/COSC 3470 3.0.

**AK/AS/SC/COSC 3301 3.0 Programming Language Fundamentals.** Formal syntax: Backus-Naur form and extensions, syntax diagrams, grammars and parsing; elements of formal language theory; type theory and data structures of algorithmic languages; control structures and their composition. Subprograms: argument-parameter binding mechanisms.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 2001 3.0 or AK/COSC 3431 3.0.

*Degree credit exclusion:* AK/COSC 3420 6.0.

**AK/AS/SC/COSC 3311 3.0 Software Design.** A study of design methods and their use in the correct implementation, maintenance and evolution of software systems. Topics include design, implementation, testing, documentation needs and standards, support tools. Students design and implement components of a software system.

*Prerequisites:* General prerequisites; including AK/AS/SC/MATH 2090 3.0, and AK/AS/SC/COSC 2001 3.0 or AK/COSC 3431 3.0; AK/AS/SC/COSC 2031 3.0.

**AK/AS/SC/COSC 3331 3.0 Object-Oriented Programming and Design.** Introduction to the theoretical and practical methods of object-oriented software construction. Topics include single and multiple inheritance, type hierarchies, polymorphism, operator overloading, class library design, templates, constraint-based programming and contract model of design.

*Prerequisites:* General prerequisites.

*Degree credit exclusions:* AS/SC/COSC 3010A 3.0, AK/COSC 3200B 3.0, AK/COSC 3650 3.0.

**AK/AS/SC/COSC 3341 3.0 Introduction to Program Verification.** Application of logic to programs; weakest precondition; semantics of a simple programming language; correctness; development of correctness proofs from specifications; application to software design; performance bounds; transformation and synthesis. (formerly AK/AS/SC/COSC 3111 3.0)

*Prerequisites:* General prerequisites, including AK/AS/SC/MATH 2090 3.0.

*Degree credit exclusion:* AK/AS/SC COSC 3111 3.0.

**AK/AS/SC/COSC 3401 3.0 Introduction to Symbolic Computation.** Focuses on the representation of knowledge - facts and rules - in forms other than numbers or text, and on the construction of programs which can exploit such knowledge to solve problems. Functional programming, logic and object-oriented programming techniques are explored in depth.

*Prerequisites:* General prerequisites, including AK/AS/SC/MATH 2090 3.0.

*Degree credit exclusion:* AK/COSC 3551 3.0.

**AK/AS/SC/COSC 3402 3.0 Introduction to Concepts of Artificial Intelligence.** The concept of artificial intelligence. Interpretation of learning and reasoning as computational processes; simulation using logic and inference rules; analysis of the structure of visual scenes; game playing by computer; natural language analysis and synthesis; domain-independent planning and problem solving.

*Prerequisites:* AK/AS/SC/COSC 3401 3.0; AK/AS/SC/MATH 2320 3.0 or AK/MATH 2442 3.0.

*Degree credit exclusion:* AK/COSC 3551 3.0.

**AK/AS/SC/COSC 3408 3.0 Simulation of Discrete Systems.** Introduction to simulating discrete-event systems and queuing problems. Use of probability distributions and random number generation. Model building, testing, use and validation. Application to case studies.

*Prerequisites:* General prerequisites; AK/AS/SC/MATH 2560 3.0.

*Degree credit exclusions:* AK/COSC 3451 3.0, AS/SC/MATH 4930B 3.0.

**AK/AS/SC/COSC 3418 3.0 Simulation of Continuous Systems.** Introduction to dynamic continuous systems. Mathematical representation, numerical solution; stability and error accumulation. Use of general-purpose procedural languages and special-purpose languages. Control systems and feedback loops. Applications to population studies, fluid systems, politico-economic models and other case studies.

*Prerequisites:* General prerequisites; AK/AS/SC/MATH 2560 3.0.

*Degree credit exclusion:* AK/COSC 4071 3.0.

**AK/AS/SC/COSC 3421 3.0 Introduction to Database Systems.** Concepts, approaches and techniques in database management systems (DBMS). Logical model of relational databases. An introduction to relational database design. Other topics such as query languages, crash recovery and concurrency control.

*Cross-listed to:* AK/AS/ITEC 3421 3.0.

*Prerequisite:* AK/AS/SC/COSC 2011 3.0 or AK/COSC 3501 3.0 or AK/AS/ITEC 2011 3.0.

*Degree credit exclusions:* AS/SC/COSC 3412 3.0, AK/COSC 3503 3.0.

**AK/AS/SC/COSC 3461 3.0 User Interfaces.** This course introduces user interfaces and the tools and mechanisms to create and prototype them. Students work in small groups and learn how to design user interfaces, how to realize them and how to evaluate the end result.

*Cross-listed to:* AK/AS/ITEC 3461 3.0.

*Prerequisite:* AK/AS/SC/COSC 2011 3.0 or AK/AS/SC/COSC 2031 3.0 or AK/COSC 3501 or AK/AS/ITEC 2011 3.0.

*Note:* Not open to students who successfully completed AK/AS/SC/COSC 4341 3.0 or AS/SC/COSC 4361 3.0 before Fall 1999.

## 4000-Level Courses

**General Prerequisites.** All 4000-level Computer Science courses require the following **general prerequisites**, in addition to or including any specifically stated in the course outlines below:

- AK/AS/SC/COSC 2001 3.0 or AK/COSC 3431 3.0;
- AK/AS/SC/COSC 2011 3.0 or AK/COSC 3501 3.0 or AK/AS/ITEC 2011 3.0;
- AK/AS/SC/COSC 2021 3.0 or AK/COSC 3411 3.0 or AK/AS/ITEC 2021 3.0;
- AK/AS/SC/COSC 2031 3.0;
- at least 12 credits in Computer Science at the 3000-level;
- a cumulative grade-point average of 4.5 or better over all completed Computer Science major courses;
- AK/AS/SC/MATH 2090 3.0.

**AK/AS/SC/COSC 4010 3.0 Special Topics in Computer Science.** Half courses or seminars on particular topics not otherwise available.

*Prerequisites:* Vary depending on the particular topic, but include at least the general prerequisites.

**AK/AS/SC/COSC 4080 3.0 Computer Science Project.** A project in computer science chosen in consultation with, and supervised by, a member of the department.

*Prerequisites:* General prerequisites; permission of the course director. Normally restricted to students who have taken 36 credits in Computer Science.

*Degree credit exclusion:* SC/COSC 4001 6.0.

**AK/AS/SC/COSC 4101 3.0 Advanced Data Structures.** Amortized and worst-case analysis of data structures. Data structuring paradigms: self-adjustment and persistence. Lists: self-adjustment with the move-to-front heuristic. Search trees: splay trees, finger search trees. Heaps: skew heaps, fibonacci heaps. Union-find trees. Link-and-cut trees. Multidimensional data structures and dynamization.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3101 3.0 or AK/COSC 3432 3.0; AK/AS/SC/MATH 2320 3.0 or AK/MATH 2442 3.0.

**AK/AS/SC/COSC 4111 3.0 Automata and Computability.** Introduction to more advanced topics in theoretical foundations of computer science, including the study of formal languages and automata, formal models of computation, and computational complexity measures.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3101 3.0 or AK/COSC 3432 3.0; AK/AS/SC/MATH 2320 3.0 or AK/MATH 2442 3.0.

*Degree credit exclusion:* AK/COSC 4021 3.0.

**AK/AS/SC/COSC 4201 3.0 Computer Architecture.** The internal structure and design ideas embodied in many computers and the techniques for evaluating them. Fast arithmetic algorithms, memory system designs, pipeline techniques, input-output subsystems and parallel computing structures. Future trends in computer architecture.

*Prerequisites:* General prerequisites; including AK/AS/SC/COSC 3201 3.0 or AK/COSC 3411 3.0, and AK/AS/SC/COSC 3221 3.0 or AK/AS/SC/COSC 3321 3.0.

**AK/AS/SC/COSC 4211 3.0 Performance Evaluation of Computer Systems.** This course introduces the concept of modelling a computer system, using queuing theory techniques and simulation techniques, then it examines the practical applications of these concepts in some case studies. These case studies are chosen to have a practical impact.

*Prerequisites:* General prerequisites; including AK/AS/SC/COSC 3211 3.0 or AK/COSC 3409A 3.0 and AK/AS/SC/COSC 3408 3.0 or AK/COSC 3451 3.0.

**AK/AS/SC/COSC 4221 3.0 Operating System Design.** An operating system has four major components: process management, input/output, memory management, file system. This project-oriented course puts OS principles into action: design and implementation of components of an OS, interaction with existing system software (using C under Unix). (formerly AK/AS/SC/COSC 4321 3.0 – before Summer 2001)

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3221 3.0 or AK/AS/SC/COSC 3321 3.0.

*Degree credit exclusion:* AK/AS/SC/COSC 4321 3.0.

**AK/AS/SC/COSC 4301 3.0 Programming Language Design.** Advanced features of algorithmic languages: modules (packages), exceptions and tasks. A survey of non-algorithmic languages: object-oriented languages, logic programming languages. Introduction to formal semantics. Recent developments in programming language design.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3301 3.0 or AK/COSC 3420 6.0.

**AK/AS/SC/COSC 4302 3.0 Compilers and Interpreters.** Principles and design techniques for compilers and interpreters. Compiler organization, compiler writing tools, scanning, parsing, semantic analysis, run-time storage organization, memory management, code generation and optimization. Students implement a substantial portion of a compiler in a project.

*Prerequisites:* General prerequisites; AK/AS/SC/COSC 3301 3.0 recommended.

*Degree credit exclusion:* AK/COSC 3420 6.0.

**AK/AS/SC/COSC 4311 3.0 System Development.** A study of concurrency and communication in system development. Specification, design and implementation of computer systems which continuously interact with other systems. Topics may include object-oriented modelling, formal specification languages, CASE tools.

*Prerequisites:* General prerequisites; including AK/AS/SC/COSC 3221 3.0 or AK/AS/SC/COSC 3311 3.0 or AK/AS/SC/COSC 3321 3.0.

### **AK/AS/SC/COSC 4351 3.0 Real-Time Systems Theory.**

Specification and verification techniques for real-time systems with many interacting components. Formal design of real-time systems using (a) programming languages with unambiguous semantics of time-related behaviour and (b) scheduling algorithms.

*Prerequisites:* General prerequisites; including one of AK/AS/SC/COSC 3111 3.0, AK/AS/SC/COSC 3221 3.0, AK/AS/SC/COSC 3311 3.0, AK/AS/SC/COSC 3321 3.0, AK/AS/SC/COSC 3341 3.0.

### **AK/AS/SC/COSC 4352 3.0 Real-Time Systems Practice.**

Introduction to the correct use and applications of real-time programming languages. Examples of real-time programming languages are studied in detail and applied to the solution of typical real-time programming problems (e.g. communication networks, avionic systems and process control).

*Prerequisites:* General prerequisites; including one of AK/AS/SC/COSC 3221 3.0, AK/AS/SC/COSC 3301 3.0, AK/AS/SC/COSC 3311 3.0, AK/AS/SC/COSC 3321 3.0, AK/COSC 3420 6.0.

**AK/AS/SC/COSC 4401 3.0 Artificial Intelligence.** Introduction to the main ideas of current machine learning research: induction, abduction, deduction; learning from examples and formal models, Bayes' rule, Solomonoff's idea, Gold paradigm, Valiant model of learning, Rissanen's minimum description length principle; distribution free and unsupervised learning.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3402 3.0 or AK/COSC 3551 3.0.

**AK/AS/SC/COSC 4402 3.0 Logic Programming.** This course is an introduction to fundamental concepts of logic programming and logic programming languages. In the course, the logic programming language PROLOG is discussed and programming techniques and applications are studied.

*Prerequisites:* General prerequisites; including AK/AS/SC/COSC 3401 3.0 and one of AK/AS/SC/COSC 3101 3.0, AK/AS/SC/COSC 3111 3.0, AK/AS/SC/COSC 3341 3.0, AK/COSC 3432 3.0.

### **AK/AS/SC/COSC 4411 3.0 Database Management Systems. A**

study of principles of database management systems. A thorough analysis of theory of normal, relational algebra and calculus and query languages based on these concepts. Other topics: security and integrity issues, concurrency control, distributed systems, query optimization.

*Prerequisites:* General prerequisites, including AS/SC/COSC 3412 3.0 or AK/AS/SC/COSC 3421 3.0 or AK/COSC 3503 3.0 or AK/AS/ITEC 3421 3.0.

*Degree credit exclusions:* AK/COSC 4442 3.0.

### **AK/AS/SC/COSC 4421 3.0 Introduction to Robotics. An**

introduction to robot arms and autonomous vehicles. The course covers control and manipulator theory, robot sensors and navigation.

*Prerequisites:* General prerequisites; AK/AS/SC/MATH 2221 3.0.

**AK/AS/SC/COSC 4422 3.0 Computer Vision.** An introductory course in computer vision: high- and low-level vision systems, the measurement and interpretation of visual data, static and dynamic scene analysis.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3121 3.0 or AK/COSC 3511 3.0 or AS/SC MATH 3241 3.0.

**AK/AS/SC/COSC 4431 3.0 Computer Graphics.** Algorithms for the creation, manipulation and display of objects in an interactive graphical environment. (formerly AK/AS/SC/COSC 4331 3.0 – before Summer 2001).

*Prerequisites:* General prerequisites; AK/AS/SC/MATH 2221 3.0.

*Degree credit exclusion:* AK/AS/SC/COSC 4331 3.0, AK/COSC 4409B 3.0.

### **AK/AS/SC/COSC 4441 3.0 Human-Computer Interaction.**

This course introduces the concepts and technology necessary to design, manage and implement interactive software. Students work in small groups and learn how to design user interfaces, how to realize them and how to evaluate the end result. Both design and evaluation are emphasized. (formerly AK/AS/SC/COSC 4341 3.0 – before Summer 2001)

*Prerequisites:* General prerequisites; AK/AS/SC/COSC 3461 3.0 or AK/AS/ITEC 3461 3.0 is recommended.

*Degree credit exclusion:* AK/AS/SC/COSC 4341 3.0.

### **AK/AS/SC/COSC 4451 3.0 Signals and Systems.**

An introduction to the mathematical background in signals and systems required for computer vision and robotics; signal and image processing: sampling, discrete Fourier transform, filtering; linear system theory; Kalman filtering; feedback. (formerly AK/AS/SC/COSC 4242 3.0 – before Summer 2001)

*Prerequisites:* General prerequisites; AK/AS/SC/COSC 3121 3.0 or AK/COSC 3511 3.0 or AS/SC/MATH 3241 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 4242 3.0, SC/EATS 4020 3.0, AS/SC/MATH 4130B 3.0, AS/SC/MATH 4830 3.0, SC/PHYS 4060 3.0.

### **AK/AS/SC/COSC 4461 3.0 Hypermedia and Multimedia Technology.**

Design and application of computer systems which provide information resources for learning, online-help, conceptual exploration, visualization and entertainment; e.g. hypertext/hypermedia, networked information-servers, systems for collaborative work and "virtual reality". One or two topics are discussed in depth using current research literature. Normally offered in alternate years. (formerly AK/AS/SC/COSC 4361 3.0 – before Summer 2001)

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3461 3.0 or AK/AS/ITEC 3461 3.0.

*Degree credit exclusion:* AK/AS/SC/COSC 4361 3.0.

## **Dance**

### **Office:**

School of Arts and Letters  
Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

**AK/DANC 2010 6.0 Dance Experience (Studio).** An introduction to dance and expressive movement for non-dancers. Students are instructed in the body therapies of Laban, Bartenieff and F.M. Alexander and in certain modern dance techniques of Martha Graham and Doris Humphrey.

*Prerequisite:* None.

### **AK/DANC 2020 3.0 Introduction to Dance History I. A**

chronological survey of theatrical and social dance of Europe, emphasizing major developments in a broad cultural context prior to the 20th century. Some movement will be introduced.

*Prerequisite:* None.

### **AK/DANC 2030 3.0 Introduction to Dance History II. A**

continuation of AK/DANC 2020 3.0. A chronological survey of theatrical and social dance in Europe and North America emphasizing the major developments of the 20th century. Some movement will be introduced.

*Prerequisite:* None.

**AK/DANC 3010 6.0 The Dance Experience II (Studio).** Expands upon work begun in AK/DANC 2010 6.0 and further investigates the creative, technical, interpretive and communicative aspects of modern dance as an art form, a physical discipline and a mode of non-verbal communication.

*Prerequisite:* AK/DANC 2010 6.0 or permission of the Course Director on the basis of equivalent dance training.

## Economics

### Office:

School of Analytic Studies and Information Technology  
Room 527 Atkinson, Tel: 416-736-5232, Fax: 416-736-5188

**AK/ECON 1000 3.0 Principles of Micro-Economics.** The nature of the economic problem and economic goals; general and basic concepts of demand and supply; demand and utility analysis; production, costs and perfect competition; pricing in competitive and monopolistic markets and government regulation; factor pricing and income distribution.

*Degree credit exclusions:* AS/ECON 1000 3.0, AS/ECON 1900 3.0.

*Note:* Not open to students who have successfully completed AK/ECON 2410 3.0.

**AK/ECON 1010 3.0 Principles of Macro-Economics.** The nature of the economic problem; basic models of national income and employment determination; banking and monetary policy. Contemporary macro-economic issues including the unemployment inflation dilemma and the relative effectiveness of monetary and fiscal stabilization policies.

*Degree credit exclusions:* AS/ECON 1010 3.0, AS/ECON 1900 3.0.

*Note:* Not open to students who have successfully completed AK/ECON 2420 3.0.

**AK/ECON 1400 6.0 Introduction to Political Economy.** The course provides a basic training in economics but de-emphasizes the more technical discussions of Economics 1000 3.0 and 1010 3.0 which are indispensable to the economics major but not for non-majors. Economic doctrines will be surveyed and applied to current problems including unemployment, inflation, growth and poverty.

*Note:* Credit towards an Atkinson degree will not be given for this course if credit towards the same degree is given for AK/ECON 1000 3.0 and AK/ECON 1010 3.0. Permission of the Coordinator of Economics is required for registration in any 2000- or 3000-level Economics course after completion of AK/ECON 1400 6.0. Not open to students who have successfully completed AK/ECON 2400 6.0 prior to Fall/Winter 1995-1996.

**AK/ECON 1530 3.0 Mathematical Analysis for Economists I.** Elementary principles of mathematical economics. Micro- and macro-economic models; ordinary and partial differentiation with applications to marginal analysis and profit maximization. Exponential functions and integration with applications to growth theory and optimization over time.

*Prerequisite:* AK/ECON 1000 3.0 or AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics. AK/ECON 1000 3.0 or AK/ECON 1010 3.0 must be taken prior to entry to AK/ECON 1530 3.0 or taken concurrently with AK/ECON 1530 3.0.

*Note:* Not open to students who have successfully completed AK/ECON 2560 3.0.

**AK/ECON 1540 3.0 Mathematical Analysis for Economists II.** Static analysis and matrix algebra with applications to input-output models; comparative static analysis, unconstrained and constrained optimization with applications to micro- and macro-economic models; elements of linear programming with applications to decision making in economics.

*Prerequisite:* One of AK/AS/ECON 1530 3.0, AS/MATH 1530 3.0, or AK/MATH 1300 3.0 or, for student with equivalent preparation, permission of the Coordinator of Economics. AK/ECON 1000 3.0 or AK/ECON 1010 3.0 must be taken prior to entry to AK/ECON 1540 3.0 or taken concurrently with AK/ECON 1540 3.0.

*Note:* Not open to students who have successfully completed AK/ECON 2570 3.0.

**AK/ECON 2300 6.0 Intermediate Micro-Economics.** This course is the full-year equivalent of AK/ECON 2300 3.0 and AK/ECON 2350 3.0. Among the topics covered are: consumer decision making, production and costs, pricing and resource allocation in competitive versus monopolistic markets, factor pricing in alternative market structures, general equilibrium analysis and welfare economics.

*Cross-listed to:* AK/ECON 2300 3.0 and AK/ECON 2350 3.0.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0, AK/ECON 1530 3.0 and AK/ECON 1540 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* not open to students who have successfully completed AK/ECON 3200 3.0 or AK/ECON 3210 3.0.

**AK/ECON 2300 3.0 Intermediate Micro-Economics I.** Starting from the fundamental problem of scarcity, micro-economic theory seeks to explain how choices are made in economic behaviour and activity. Among the topics covered are consumer decision-making, production and costs, competitive equilibrium and the role of prices in a market economy.

*Prerequisite:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0, AK/ECON 1530 3.0 and AK/ECON 1540 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Credit towards a major in Economics will not be given for this course if AK/ECON 2300 6.0 is successfully completed. Not open to students who have successfully completed AK/ECON 3200 3.0.

**AK/ECON 2350 3.0 Intermediate Micro-Economics II.** Resource allocation in competitive versus monopolistic markets; factor pricing in alternative market structures; basic concepts of general equilibrium analysis and welfare economics.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0, AK/ECON 1530 3.0, AK/ECON 1540 3.0 and AK/ECON 2300 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Credit towards a major in Economics will not be given for this course if AK/ECON 2300 6.0 is successfully completed. Not open to students who have successfully completed AK/ECON 3210 3.0.

**AK/ECON 2400 6.0 Intermediate Macro-Economics.** This course is the full-year equivalent of AK/ECON 2400 3.0 and AK/ECON 2450 3.0. Important macro-economic phenomena are analyzed. Topics include aggregate demand and supply, consumption and investment behaviour, money demand, stabilization policy, government deficits, problems of inflation and unemployment, the role of expectations and open economy issues.

*Cross-listed to:* AK/ECON 2400 3.0 and AK/ECON 2450 3.0.

*Prerequisite:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0, AK/ECON 1530 3.0, AK/ECON 1540 3.0 and for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Not open to students who have successfully completed AK/ECON 3300 3.0 or AK/ECON 3310 3.0.



**AK/ECON 2400 3.0 Intermediate Macro-Economics I.** This course is designed to equip students with the basic tools for analyzing macro-economic phenomena in a closed economy. Topics include aggregate demand and supply, consumption and investment behaviour, demand for money, government stabilization policy and current fiscal issues.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0, AK/ECON 1530 3.0 and AK/ECON 1540 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Credit towards a major in Economics will not be given for this course if AK/ECON 2400 6.0 is successfully completed. Not open to students who have successfully completed AK/ECON 3300 3.0.

**AK/ECON 2450 3.0 Intermediate Macro-Economics II.** Applying the analytical tools that students learn in AK/ECON 2400 3.0, this course covers the problems of inflation, unemployment and government deficits, with a focus on the role of expectations. Open economy issues under fixed and flexible exchange rates are also introduced.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0, AK/ECON 1530 3.0, AK/ECON 1540 3.0 and AK/ECON 2400 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Credit towards a major in Economics will not be given for this course if AK/ECON 2400 6.0 is successfully completed. Not open to students who have successfully completed AK/ECON 3310 3.0.

**AK/ECON 3110 3.0 Bayesian Inference and Decision.** This course takes a quantitative approach to decision-making, including a coverage of Bayesian inference, decision theory, prior, posterior and preposterior analysis using discrete and continuous distributions. Emphasis is given to understanding concepts and the use and application to administration.

*Prerequisite:* AK/ECON 3470 3.0 or AK/ADMS 3320 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note 1:* This course counts as an elective in an Economics major.

*Note 2:* Not open to students who have taken AK/ADMS 3350 3.0 or AK/MATH 2750 3.0.

**AK/ECON 3120 3.0 Managerial Operations Research.**

Introduction treatment of operations research topics and applications to functional areas in administration. This includes linear programming, formulation, graphical solutions, simplex solutions, sensitivity analysis, duality and computer solutions; assignment/transportation problems, integer programming, network models, dynamic programming and computer simulation.

*Prerequisite:* AK/ECON 3470 3.0 or AK/ADMS 3320 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note 1:* This course counts as an elective in an Economics major.

*Note 2:* Not open to students who have taken AK/ADMS 3351 3.0 or AK/MATH 2751 3.0.

**AK/ECON 3130 3.0 Sampling Techniques and Survey Design.**

This course deals with: different sampling techniques and their applications to management problems, survey design, pilot surveys, use of focus groups, in-person interviews, mail surveys and polling.

*Prerequisite:* AK/ECON 3470 3.0 or AK/ADMS 3320 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note 1:* This course counts as an elective in an Economics major.

*Note 2:* Not open to students who have taken AK/ADMS 3352 3.0 or AK/MATH 2752 3.0.

**AK/ECON 3210 3.0 Use of Economic Data.** This course introduces the theory and practice of empirical analysis of economic models. Linear regression analysis is developed and applied in the course. Use is made of Canadian data sets and statistical software packages for micro and/or mainframe computers.

*Prerequisite:* AK/ECON 3470 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics. Not open to students who have successfully taken AK/ECON 3480 3.0 or AK/ECON 3490 3.0.

**AK/ECON 3340 3.0 Environmental Economics.** Application of the techniques of analytical economics to the problem of environmental degradation; externalities and the cost of environmental pollution; direct and indirect costs and benefits of abatement schemes; public regulation and environmental policies in Canada.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalents, permission of the Coordinator of Economics.

**AK/ECON 3350 3.0 Housing Economics.** Application of the tools of economic analysis to the housing industry. Characteristics of the housing market; demand for and supply of housing; housing market equilibrium. Regulation of the housing market and housing policies with particular emphasis on the Canadian experience.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalents, permission of the Coordinator of Economics.

**AK/ECON 3411 3.0 Applied Managerial Economics.** This course introduces students to the economic and statistical aspects of managerial decision making. Topics covered include: pricing strategy, competition policy in Canada, empirical estimation of demand, production and cost functions and simple forecasting techniques. Students will also be required to work with a standard statistical software package.

*Prerequisites:* AK/ECON 2300 3.0, AK/ECON 3470 3.0 and AK/ECON 3480 3.0 or, for students with equivalent preparation, permission of Coordinator of Economics.

*Note:* Not open to students who have successfully completed AK/ECON 3410 6.0.

**AK/ECON 3430 3.0 Money, Banking and Finance A.** Studies the principal financial institutions and markets in the Canadian economy. The economic function, regulation and operational features of these various institutions and markets are analyzed. The corresponding institutions and markets in other countries are also considered.

*Prerequisite:* AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 3140 3.0.

**AK/ECON 3440 3.0 Money, Banking and Finance B.** A study of the central bank and its use of monetary theory to control growth and fluctuations in the Canadian economy through the chartered banking system. Links between Canada's financial system and the international financial system are also considered, with particular emphasis placed upon the restraining influence of international financial requirements on the attainment of national goals.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 and AK/ECON 3430 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3450 3.0 The Public Debt and the Role of Government in the 2000's.** The controversy over the role of government in the modern economy. The provision of social goods that cannot be privatized. Source of revenue; equity and efficiency in taxation.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/ECON 4070 3.0/4080 3.0/4089 3.0.

### **AK/ECON 3470 3.0 Introductory Economic Statistics I.**

Descriptive statistics and frequency distributions; measures of location and dispersion; probability theory and mathematical expectations; sampling distributions and hypotheses testing.

*Degree credit exclusions:* AS/ECON 2500 3.0, EN/ENVS 2010 3.0, AS/SC/GEOG 2420 3.0, AS/SC/GEOG 3421 3.0, AS/MATH 1131 3.0, AS/MATH 2560 3.0, AS/KINE 2050 3.0, AS/PSYC 2020 6.0, AS/PSYC 2021 3.0, AS/SOCI 3030 6.0.

*Note:* This course is not open to students who have taken AK/ADMS 3320 3.0.

**AK/ECON 3479 3.0 Related Topics in Economics.** Treatment of various topics which may not be covered in other courses.

- A. The Impact of the Internet on the Economy, and on Economic Research
- B. Labour Arbitration
- C. Economics of Free Trade Areas

**AK/ECON 3479A 3.0 The Impact of the Internet on the Economy, and on Economic Research.** This course examines the impact of information and communication technology on economic structures and economic processes as well as its effects on emerging forms of economic research.

**AK/ECON 3480 3.0 Introductory Economic Statistics II.** Point and interval estimation; other statistical distributions and non-parametric tests; decision theory; index numbers; time series; regression analysis and forecasting.

*Prerequisite:* AK/ECON 3470 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3490 3.0 Econometric Modelling and Forecasting I.** Elements of econometric model building. Estimation and prediction techniques in simple and general regression models. Treatment of estimation problems in single equation models such as autocorrelation, colinearity and others. Econometric applications and case studies in estimation and forecasting.

*Prerequisites:* AK/MATH 1710 6.0 or equivalent, AK/ECON 3470 3.0, AK/ECON 3480 3.0 or AK/ECON 3210 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/MATH 3033 3.0, AS/MATH 3330 3.0, AS/ECON 4210 3.0.

**AK/ECON 3500 3.0 Econometric Modelling and Forecasting II.** Specification and estimation techniques of interdependent economic systems. The identification problem; alternative estimation methods of multi-equation models; introduction to validation and simulation techniques. Applications and case studies.

*Prerequisite:* AK/MATH 1710 6.0 or equivalent, AK/ECON 3470 3.0, AK/ECON 3480 3.0 and AK/ECON 3490 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/MATH 3034 3.0, AS/ECON 4220 3.0.

**AK/ECON 3510 3.0 Health Economics.** Determinants of supply and demand in the health services industry; causes of medical cost inflation; economic models of physician and hospital behaviour; the influence of health insurance, reimbursement schemes and practitioners' discretion on the delivery system; case studies and policy implications in a Canadian context.

*Prerequisite:* AK/ECON 1000 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

### **AK/ECON 3520 3.0 Economic Evaluation in Health Care.**

Introduction to the application of decision analytic models and economic analysis to health care evaluation; cost minimization, cost effectiveness, cost utility and cost benefit analysis; problems of identification, measurement and valuation of costs, outcome and quality of life; case studies and policy implications to health care management.

### **AK/ECON 3550 3.0 Economics of Developing Countries I.**

An analysis of the economic problems of poor countries and poor communities. Topics explore the meaning of development; theories of development; growth and technological change and strategies for environmentally sustainable development.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/ECON 3310 3.0.

### **AK/ECON 3560 3.0 Economics of Developing Countries II.**

An examination of policy issues arising from development planning. Topics include agriculture versus industry; international trade; monetary and fiscal policies; foreign investment, foreign aid and self-reliance and global issues.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 3320 3.0.

**AK/ECON 3570 3.0 International Economics I.** A study of the micro-economic aspects of international trade, tracing its historical development from the theory of comparative costs to the theory of customs unions and tariffs. Included are such topics as trade patterns, trade barriers and free trade versus protectionism.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3580 3.0 International Economics II.** This course is an introduction to international monetary economics. Both theoretical and applied aspects of international economics will be analyzed. Topics to be covered include: the exchange rate and exchange rate regimes, the automatic adjustment process, open economy macro-economics and policy, international financial markets and economic integration.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 4200 3.0.

### **AK/ECON 3590 6.0 The Economics of Education and Training.**

A study of economic aspects of educational/training systems and their links to the labour market. Topics include: effects of education/training on wages, distribution of earnings and economic growth; school-to-work transition; educational/occupational segregation; general versus firm-specific training; and evaluation of government training programs.

*Cross-listed to:* AK/SOCI 3390Q 6.0.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3600 6.0 Industrial Relations Systems.** A comparative study of the industrial relations systems in various countries, the character of worker and employer organizations and their interrelationships in different industrial and social settings, with particular emphasis on the role of labour in economic development.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 3250 3.0 or AS/ECON 3259 3.0.

**AK/ECON 3610 3.0 Labour Economics.** Applies economic theory to labour markets. Topics include: labour force participation, hours of work, investment in education and training, worker mobility; demand for labour; effects of market structure on wages and employment; theories of trade unions and collective bargaining.

*Prerequisite:* AK/ECON 1000 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/ECON 3240 3.0 or AS/ECON 3249 3.0, AK/ECON 3620 3.0.

**AK/ECON 3620 3.0 The Economics of Unemployment.** A study of Post-war unemployment in Canada. The course includes an analysis of the effects of demographic changes, social security and minimum wage legislation, unions, technological change, cyclical changes and industrial restructuring on unemployment and discusses policy options to reduce unemployment.

*Prerequisite:* AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/ECON 3240 3.0 or AS/ECON 3249 3.0, AK/ECON 3610 3.0.

**AK/ECON 3630 3.0 Regional Economics.** Economics of location and space; emphasis on spatial competition; evolution of regional hierarchies, linkages between regions; base theory, local multipliers, shift and share.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3640 3.0 Urban Economics.** Contemporary metropolitan problems as symptoms of various economic bases; urban poverty and welfare; local services and finance; housing and land use; transportation and traffic; pollution and environment.

*Prerequisite:* AK/ECON 1000 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AK/URST 3540 3.0, AS/ECON 3230 3.0.

**AK/ECON 3650 3.0 Canadian Economic Policy I.** An examination and assessment of Canadian economic policy, including the Bank of Canada's interest rate policy and inflation; Canadian industrial productivity; the Free Trade Agreement; the federal deficit and the Goods and Services Tax.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3660 3.0 Canadian Economic Policy II.** An examination of selected aspects of the Canadian economy, including foreign ownership in the industrial sector; agricultural subsidies; economic aspects of Quebec separatism; Canada's position in the global economy.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3670 6.0 Canadian Economic Development.** A study of the history and development of the Canadian economy from early settlement to the mid-20th century. Course material includes selected topics in the history of early settlement, as well as an investigation of the changing structure of the economy after Confederation.

*Cross-listed to:* AK/ECON 3680 3.0 and AK/ECON 3690 3.0.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/HIST 3560 3.0, AS/HIST 3561 3.0, AS/ECON 3069 3.0, AS/ECON 3079 3.0, AK/ECON 3680 3.0, AK/ECON 3690 3.0.

*Note:* Not open to students who have successfully completed AK/ECON 3670 3.0 or AK/ECON 3680 3.0.

**AK/ECON 3680 3.0 Canadian Economic Development I.** This course is a study of Canadian economic development from early settlement to Confederation. The staples thesis and other theories of economic development which are relevant for preindustrial economies will be examined and applied to the Canadian case.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/HIST 3560 3.0, AS/HIST 3561 3.0, AS/ECON 3069 3.0, AS/ECON 3079 3.0, AK/ECON 3670 3.0, AK/ECON 3690 3.0.

*Note:* i) Not open to students who have taken AK/ECON 3670 3.0. ii) Not open to students who have successfully completed AK/ECON 3670 6.0.

**AK/ECON 3690 3.0 Canadian Economic Development II.** This course is a study of Canadian economic development from Confederation to the present. Theories of industrial development will be examined and applied to the Canadian case. Special attention will be given to government economic policy and to the question of foreign ownership.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/HIST 3561 3.0, AS/ECON 3079 3.0, AK/ECON 3670 3.0, AK/ECON 3680 3.0.

*Note:* i) Not open to students who have taken AK/ECON 3680 3.0. ii) Not open to students who have successfully completed AK/ECON 3670 6.0.

**AK/ECON 3710 6.0 European Economic History.** An investigation of changes in the structure of the European economy over the last four centuries, with emphasis on the roles played by public policy, the evolution of technology and the transformation of the market system. The relevance of current theories of economic growth to the experience of Europe will be discussed.

*Prerequisite:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusions:* AS/ECON 3120 3.0 or AS/ECON 3129 3.0, AS/ECON 3130 3.0 or AS/ECON 3139 3.0.

*Note:* Not open to students who have taken AK/ECON 3710 3.0 or AK/ECON 3720 3.0.

**AK/ECON 3750 3.0 Industrial Organization: Theory and Evidence.** Examines theoretical and empirical studies of firms and industrial organizations in imperfectly competitive markets. Monopoly, oligopoly and monopolistic competition are particularly studied in relation to pricing and non-pricing, advertising, investment, innovation and strategic behaviour of firms and industry performance.

*Prerequisite:* AK/ECON 1000 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 3200 3.0.

**AK/ECON 3760 3.0 Industrial Organization: Policy and Application.** Extends the theoretical material developed in AK/ECON 3750 3.0 and its application in Canada and other market economies, with emphasis on the practice of industrial organizations and the application of public policies towards business in imperfectly competitive markets.

*Prerequisites:* AK/ECON 1000 3.0, AK/ECON 1010 3.0 and AK/ECON 3750 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3780 6.0 Work, Employment and Unemployment.** Impact of technological change, mass unemployment, the social psychological effect of plant closures, deindustrialization, comparative analyses of the USA, Canada, Sweden, West Germany, Britain and Japan.

*Cross-listed to:* AK/SOCI 3392 6.0.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Not open to students who have taken AK/SOCI 3390R 6.0 or AK/POLS 3740 6.0. This course counts as a major course in Administrative Studies.

**AK/ECON 3790 6.0 Women's Work: Women in the North American Economy.** A study of women's economic activities and the economic position of women in the North American economy. The course includes an analysis of household work as well as labour force activity.

*Note:* This course counts as a major course in Women's Studies and Health Studies. It is a multidisciplinary course especially for students in Economics, Health Studies, Women's Studies and related disciplines.

**AK/ECON 3800 3.0 Law and Economics.** This is a course in the interrelationship of law and economics, emphasizing the institutional setting of the economic system and the concepts of property rights and transaction costs.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 4309 3.0.

**AK/ECON 3810 3.0 The Economics of Project Appraisal and Feasibility.** Prefeasibility and feasibility studies of proposed projects; forecasting demand and plant capacity; estimation of production, sales, costs and revenues; alternative commercial profitability criteria (net present value, rate of return) for project evaluation and selection; sensitivity analysis under risk and uncertainty; applications and case studies.

*Prerequisites:* AK/MATH 1710 6.0 or OAC Calculus; AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3820 3.0 Public Policy Evaluation of Projects.** Direct and indirect costs and benefits of proposed projects; social costs and benefits, externalities and shadow pricing; the equity-efficiency question and the redistribution effects of new projects; alternative social cost benefit criteria for project selection; discussion of case studies.

*Prerequisites:* AK/MATH 1710 6.0 or OAC Calculus; AK/ECON 1000 3.0 and AK/ECON 1010 3.0 and AK/ECON 3810 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3900 3.0 Post-Keynesian Economic Analysis.** This course presents Post-Keynesian short-run and long-run macro-economics. Unlike neoclassical theory, it stresses the importance of

uncertainty in investment, savings and finance decisions, the role of institutions and industrial organizations in the determination of the level and composition of output, and the linkage between the growth of capital stock and income distribution.

*Prerequisites:* AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 3910 3.0 Marxian Economic Analysis.** An introduction to Marxian economic theory. Topics include the theory of value, the transformation problem, simple and expanded reproduction, the falling rate of profit and the theory of distribution. Contemporary problems in and approaches to Marxian theory will be considered.

*Prerequisites:* AK/ECON 2300 3.0, AK/ECON 2350 3.0 and AK/ECON 2400 3.0, AK/ECON 2450 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 4000 3.0 (4000 6.0) Directed Reading/Special Study.** Students will do supervised special study in one or two selected areas. Students wishing to enrol are to contact the Coordinator of Economics.

*Prerequisites:* 78 credits including AK/ECON 2300 3.0, AK/ECON 2350 3.0 and AK/ECON 2400 3.0, AK/ECON 2450 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Students must be accepted by a faculty supervisor before they can register in the 4000-level reading course. The course transaction form for this course must be submitted with a note from the supervisor stating his/her willingness to work with the student. Priority will be given to Atkinson Economics majors.

**AK/ECON 4010 3.0 Advanced Micro-Economic Theory.** A selection of advanced topics from consumer theory, the economics of the firm, competitive and non-competitive markets, factor pricing and income distribution. General equilibrium and welfare economics are also addressed.

*Prerequisites:* 78 credits including AK/ECON 1530 3.0, AK/ECON 1540 3.0 (or Mathematics AK/MATH 1410 6.0 or equivalent), AK/ECON 2300 3.0 and AK/ECON 2350 3.0 or AK/ECON 2300 6.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 4000 3.0.

**AK/ECON 4020 3.0 Advanced Macro-Economic Theory.** This course surveys recent developments in macro-economic research. Among the topics covered are rational expectation models; consumption theory; new Keynesian models of staggering wages and prices, menu costs, efficiency wages and imperfect competition; new classical and new Keynesian business cycle theories.

*Prerequisites:* 78 credits including AK/ECON 1530 3.0 and AK/ECON 1540 3.0 (or Mathematics AK/MATH 1410 6.0 or equivalent), AK/ECON 2400 3.0 and AK/ECON 2450 3.0 or AK/ECON 2400 6.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 4010 3.0.

**AK/ECON 4030 3.0 Corporate Concentration in Canada.** Development of the industrial sector, emphasizing growth of the large firm and concentration of economic activity in the corporate sector. Topics include organizational structure, objectives, the multi-nationals, mergers, diversification and conglomeration and the influence of the State on corporate behaviour.

*Prerequisites:* 78 credits including 6 credits at the 2000-level in each of intermediate micro-economic theory and intermediate macro-economic theory or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 4040 3.0 Market Structure in the Canadian Economy.** The organization of economic activity in Canada at the level of industry, and patterns of economic activity within markets. Focuses on price, profitability, efficiency, technological change, product innovation, barriers to resource movement, income distribution and public policy.

*Prerequisites:* 78 credits including 6 credits at the 2000-level in each of intermediate micro-economic theory and intermediate macro-economic theory or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 4050 3.0 The Development of Economic Thought and Analysis I.** An examination of the development of economic doctrines from the Age of Mercantilism up to and including the English "classical" school.

*Prerequisites:* 78 credits including AK/ECON 2300 3.0, AK/ECON 2350 3.0 and AK/ECON 2400 3.0, AK/ECON 2450 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 4059 3.0.

**AK/ECON 4060 3.0 The Development of Economic Thought and Analysis II.** The development of economic thought from the mid-19th century to the present day.

*Prerequisites:* 78 credits including AK/ECON 2300 3.0, AK/ECON 2350 3.0 and AK/ECON 2400 3.0, AK/ECON 2450 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Degree credit exclusion:* AS/ECON 4069 3.0.

**AK/ECON 4070 3.0 Economic Integration Between Unequal Partners.** Examines the history and development of selected major trading blocs where unequal partners are involved, such as: the European Union (EU), the Canada-U.S. Free Trade Agreement (FTA) and the North American Free Trade Agreement (NAFTA).

*Prerequisites:* 78 credits or, permission of the Coordinator of Economics.

*Note:* (i) Not open to students who have completed AK/ECON 4080A 6.0. (ii) This is a multi-disciplinary course especially for students in economics, administrative studies, political science, social work and other related disciplines.

**AK/ECON 4080 3.0 (4080 6.0) Special Topics in Economics.** The instructor and subject of this course will vary from session to session. Please contact the coordinator of Economics or the School of Analytic Studies and Information Technology for details on course content and offerings.

- B. Research Seminar in Economics
- C. Financial Economics
- D. The Economics of Information and Incentives (3.0)
- E. Topics in Industrial Relations (3.0)

*Prerequisites:* **B.:** 78 credits including a 3000-level Economics course or, for students with equivalent preparation, permission of the Coordinator of Economics. **C.:** AK/ECON 1000 3.0 and AK/ECON 1010 3.0; AK/ECON 1530 3.0, AK/ECON 3470 3.0 and AK/ECON 3480 3.0; or, for students with equivalent preparation permission of the Coordinator of Economics. **D.:** AK/ECON 1000 3.0 and AK/ECON 1010 3.0, AK/ECON 1530 3.0, AK/ECON 2300 3.0 and AK/ECON 2350 3.0 (or AK/ECON 2300 6.0), AK/ECON 3470 and AK/ECON 3480 or, for students with equivalent preparation, permission of the Coordinator of Economics. **E.:** AK/ECON 1000 3.0 and AK/ECON 1010 3.0; AK/ECON 2400 3.0 and AK/ECON 2450 3.0, AK/ECON 3610 3.0; or, for students with equivalent preparation permission of the Coordinator of Economics.

*Corequisite:* **C.:** AK/ECON 1540 3.0.

**AK/ECON 4090 6.0 Seminar in Collective Bargaining.** In-depth study of critical issues in collective bargaining such as trends in collective bargaining, industrial conflict, incomes and wages policies, technological change and job rights, the impact of regional trading blocs, the internationalization of capital and globalization of production.

*Prerequisites:* 78 credits including AK/ECON 3610 3.0 and AK/ECON 3620 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 4120 3.0 Topics in Econometrics.** Advanced estimation methods of simultaneous equation systems; simulation and validation techniques of multi-equation systems; dynamic properties, multiplier evaluation and sensitivity analysis of econometric models.

*Prerequisites:* 78 credits including AK/ECON 1530 3.0, AK/ECON 1540 3.0, AK/ECON 3470 3.0, AK/ECON 3480 3.0, AK/ECON 3490 3.0, AK/ECON 3500 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Not open to students who have completed AK/ECON 4070 6.0.

**AK/ECON 4130 3.0 Applied Econometric Modelling.** Evaluation and comparison of some empirical micro and macro models with reference to structural specifications, estimation, validation and simulation techniques.

*Prerequisites:* 78 credits including AK/ECON 1530 3.0, AK/ECON 1540 3.0, AK/ECON 3470 3.0, AK/ECON 3480 3.0, AK/ECON 3490 3.0, AK/ECON 3500 3.0, AK/ECON 4120 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note:* Not open to students who have completed AK/ECON 4070 6.0.

**AK/ECON 4140 3.0 Applied Energy Economics I.** The course explores energy policy issues which are technoeconomic in nature. It provides a survey of important topics in energy policy modelling. It begins with a literature survey of the key variables impacting the economy, then focuses on the results from empirical and theoretical analyses, methodologies used and associated conceptual problems.

*Prerequisites:* 78 credits including AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 4150 3.0 Applied Energy Economics II.** The course focuses on both specialized and integrative energy policy models. The specialized models include energy policy models involving the individual behaviour, the structure of the energy system, and problems and interactions of energy, environment and conservation. Integrative models include an attempt to mesh demand and supply elements in an integrated fashion.

*Prerequisites:* 78 credits including AK/ECON 1000 3.0 and AK/ECON 1010 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 4160 3.0 Theory and Practice of Arbitration.** The historical and current rationale for arbitration as a form of third party intervention in labour management disputes. Processes and practices of arbitration. Economic criteria including incomes policy as applied to contract arbitration. The role and scope of arbitrators as defined by public policy, judicial review and industrial jurisprudence.

*Prerequisites:* 78 credits including a 3000-level Economics course or, for students with equivalent preparation, permission of the Coordinator of Economics.

**AK/ECON 4170 3.0 (4170 6.0) Directed Research.** Students conduct a research project under the guidance of a full-time faculty member in which emphasis is placed on research design, methodological issues and data analysis.

*Prerequisites:* 78 credits including: AK/ECON 1000 3.0 and AK/ECON 1010 3.0, AK/ECON 1530 3.0, AK/ECON 1540 3.0, AK/ECON 2300 3.0, AK/ECON 2350 3.0, AK/ECON 2400 3.0, AK/ECON 2450 3.0, AK/ECON 3470 3.0, AK/ECON 3480 3.0 or, for students with equivalent preparation, permission of the Coordinator of Economics.

*Note: Students must be accepted by a faculty supervisor before they can register in the course. Priority will be given to Atkinson Economics majors in accordance with departmental guidelines.*

## English

### Office:

School of Arts and Letters

Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

*Please note: The names of writers included in the course descriptions below are representative. The actual writers studied in each offering of a course title is at the discretion of the instructor. For specifics, always consult the current Course Outline.*

### 1000-Level: Introductory Courses

Open to any student for elective credit only.

**AK/EN 1000 3.0 (1000 6.0) Special Topics.** Treatment of various topics which may not be covered in other courses. Topics vary from year to year.

**AK/EN 1920 6.0 Reading Contemporary Fiction: An Introduction.** Examines recent critically acclaimed fictional works. Considers technical questions such as characterization, form and narrative structure. All the texts are bound by a thematic focus on family/home. (formerly AK/EN 1000B 6.0)

*Note: Not open to students who have completed AK/EN 1000A 6.0Z in Fall/Winter 1998-2000, or AK/EN 1000B 6.0Z in Summer 2000.*

**AK/EN 1953 6.0 Canadian Writers in Person.** Explores the works of 12 contemporary Canadian writers who give readings to the class and respond to questions about their work. (formerly AK/EN 1000A 6.0)

*Note: Not open to students who have taken AK/EN 1000A 6.0 in Fall/Winter 1999-2000, or in Fall/Winter 2000-2001.*

### 2000-Level: Gateway Courses

Open to any student for elective credit. English Major students are required to take three Gateway Courses, including ONE of either AK/EN 2075 3.0 or AK/EN 2076 3.0.

**AK/EN 2010 3.0 Poetry in English.** Examines a selection of major poems written in English. The approach is both thematic and historical. Specific content and format will vary with the instructor.

*Note: Not open to students who have taken AK/EN 2430 6.0 or AK/EN 2079 6.0.*

**AK/EN 2020 3.0 Prose/Fiction in English.** Introduction to the rich variety of narrative and non-narrative prose-writing in English. The approach will include a historical survey, but specific content and format will vary with the instructor.

**AK/EN 2030 3.0 Drama in English.** Introduction to the texts, contexts, and theatrical traditions in the history of the genre in English. Specific content and format will vary with the instructor.

*Note: Not open to students who have taken AK/EN 2440 6.0.*

**AK/EN 2075 3.0 Literature and Criticism.** As a preliminary foundation for further studies in English, this course outlines the main relations in English literary history between literature itself and the changing conceptions expressed by poets and critics alike, of what literature ought to be.

*Note: Not open to students who have taken AK/EN 2410 6.0.*

**AK/EN 2076 3.0 English Language and Linguistics.** A comparison of traditional school approaches and modern linguistic methods for studying grammar, lexis, and other language-related topics, including the way language is adapted to various kinds of communication, including conversation, fiction, poetry, drama, journalism, and academic essays.

*Note: Not open to students who have taken AK/EN 2460 6.0.*

**AK/EN 2079 6.0 English Poetry from Chaucer to the Present.** An historical survey of themes and forms of traditional poetry in English. Content and format will vary with the instructor. For elective credit only. **Not a Gateway credit for English Majors except by special permission of the Head of English.** (formerly AK/EN 2430. 6.0)

*Note: Not open to students who have taken AK/EN 2430 6.0.*

**AK/EN 2853 6.0 Canadian Literature.** Selected works by major poets and novelists of English and French Canada-- the latter in translation. For elective credit only. **Not a Gateway credit for English Majors.** (formerly AK/EN 2420 6.0)

*Note: Not open to students who have taken AK/EN 2420 6.0, or AK/CDNS 2410 6.0.*

### 3000-Level: Major and Elective Courses

Open to any student for elective credit. English Major students rely on this list to assemble Major Study Modules. The arrangement of courses also reflects English Major period requirements. More information about the Modules can be found in the Program section of the printed Calendar, and on the Joseph E. Atkinson Faculty of Professional and Liberal Studies; SAL/English Web site.

#### Language and Linguistics:

**AK/EN 3075 6.0 Language, Style and Discourse.** The history of the English language and of literary style from the Old English period to the present, investigating lexical and grammatical structures, and the variation of style according to context. (formerly AK/EN 3800 6.0)

*Note: Not open to students who have taken AK/EN 3800 6.0.*

#### Mediaeval and Renaissance (Period 1)

**AK/EN 3100 6.0 Old English.** Critical study and translation of writings in the original Old English, read against the textual, graphic and material culture of Anglo-Saxon England of the Fifth to the 11th centuries A.D. (formerly AK/EN 3410 6.0)

*Note: Not open to students who have taken AK/EN 3410 6.0.*

**AK/EN 3200 6.0 Literature of the Middle Ages.** Mediaeval literature in translation, with works selected from a variety of countries, ages, and genres. (formerly AK/EN 3650 6.0)

*Note: Not open to students who have taken AK/EN 3650 6.0.*

**AK/EN 3240 6.0 Chaucer: The Major Works.** A critical reading of Chaucer's works such as *The Book of the Duchess*, *Troilus and Criseyde*, and selected *Canterbury Tales*. (formerly AK/EN 3420 6.0)

*Cross-listed to: GL/ENGL 3210 6.0.*

*Note: Not open to students who have taken AK/EN 3420 6.0 or GL/ENGL 3210 6.0.*

**AK/EN 3328 6.0 Poetry and Prose of the 16th Century.** The literature and culture of 16th century England, from Sir Thomas More and the early Tudor poets to the Elizabethan world of Sidney, the Countess of Pembroke, Spenser, and Marlowe. (formerly AK/EN 3430 6.0)

*Note: Not open to students who have taken AK/EN 3430 6.0.*

**AK/EN 3340 6.0 Shakespeare and his Contemporaries.** The plays of Shakespeare and such contemporaries as Marlowe, Jonson, and Webster. (formerly AK/EN 3450 6.0)

*Note: Not open to students who have taken AK/EN 3450 6.0.*

**AK/EN 3346 6.0 Women's Writing in Early Modern England.** Secular and devotional poetry, prose fiction of various kinds, drama, prophecy, translation, life writing, meditations and treatises, diaries, and spirited polemics from 1545-1660. (formerly AK/EN 3655 6.0)

*Cross-listed to: AK/HUMA 3605K 6.0.*

*Note: Not open to students who have taken AK/EN 3655 6.0.*

**AK/EN 3410 6.0 Poetry of the 17th Century.** Poetry of the Metaphysical school of Donne, Herbert, Marvell and Vaughan, Milton, Anne Finch, Aphra Behn and the Cavalier poets. (formerly AK/EN 3660 6.0)

*Note: Not open to students who have taken AK/EN 3660 6.0.*

## 1660-1900 (Period 2)

**AK/EN 3500 3.0 Restoration and 18th Century Literature: Drama and Poetry.** Focuses on writers such as Dryden, Sheridan, Behn, Pope, Finch, and Young in their historical and cultural setting.

*Note: Not open to students who have taken AK/EN 3480 6.0.*

**AK/EN 3501 3.0 Restoration and 18th Century Literature: Prose.** Focuses on satires, essays, journals of restoration and 18th century writers such as Locke, Pepys, Defoe, Addison, Swift, Montague, Johnson, Wollstonecraft.

*Note: Not open to students who have taken AK/EN 3480 6.0.*

**AK/EN 3520 6.0 The British Novel of the Restoration and 18th Century.** The first hundred years of the English novel, from Defoe to early Jane Austen, taking in works as various as *Tom Jones*, *Tristram Shandy*, the Gothic tales, and the novels of Ann Radcliffe and Fanny Burney. (formerly AK/EN 3330 6.0)

*Note: Not open to students who have taken AK/EN 3330 6.0.*

**AK/EN 3620 6.0 The British Novel of the 19th Century.** A study of the themes, forms, and major achievements of English fiction in the century of Austen, the Brontës, Dickens, George Eliot, and Hardy. (formerly AK/EN 3490 6.0)

*Note: Not open to students who have taken AK/EN 3490 6.0.*

**AK/EN 3625 6.0 Poetry and Prose of the Romantic Period.** The poetry and prose of Blake, Byron, Coleridge, Keats, Shelley, Charlotte Smith and the Wordsworths. (formerly AK/EN 3500 6.0)

*Note: Not open to students who have taken AK/EN 3500 6.0.*

**AK/EN 3710 6.0 Victorian Poetry.** A critical reading of the poetry of writers such as Tennyson, Browning, Arnold, Clough, Mary Coleridge, Swinburne, Christina Rossetti, Hopkins, and Hardy. (formerly AK/EN 3640 6.0)

*Note: Not open to students who have taken AK/EN 3640 6.0.*

**AK/EN 3744 3.0 Thomas Hardy.** Examines selected poems and novels by Thomas Hardy, with some attention to the cultural and scientific contexts of his work. Period 2 or 3 credit. (formerly AK/EN 3100K 3.0)

*Note: Not open to students who have taken AK/EN 3100K 3.0.*

**AK/EN 3745 3.0 Robert Browning.** Examines the poetry of this subtle explorer of human personality and relationships, with special emphasis on the dramatic monologues. (formerly AK/EN 3100B 3.0)

*Note: Not open to students who have taken AK/EN 3100B 3.0.*

**AK/EN 3753 6.0 Canadian Literature of the 19th Century.** Early voices in English-Canadian literature with due attention to the influence upon them of their British and American contemporaries. (formerly AK/EN 3530 6.0)

*Note: Not open to students who have taken AK/EN 3530 6.0, or AK/CDNS 3540 6.0.*

**AK/EN 3762 6.0 American Literature of the 19th Century.** Selected works of Emerson, Thoreau, Melville, Hawthorne, Dickinson, Stowe and Whitman. (formerly AK/EN 3560 6.0)

*Note: Not open to students who have taken AK/EN 3560 6.0.*

**AK/EN 3770 6.0 Self and Society in the European Novel.** The modern novel grew with the rise of the middle class, capitalism, democracy, and the break down of authorities such as religion and the family. Explores how Balzac, Flaubert, Dickens, George Eliot, Dostoyevsky, Kafka and others respond in the revolutionary realities of their age. (formerly AK/EN 3315 6.0)

*Cross-listed to: AK/HUMA 3340 6.0.*

*Note: Not open to students who have taken AK/EN 3315 6.0, AK/HUMA 3340 6.0 or AK/HUMA 3940 6.0.*

**AK/EN 3773 6.0 Russian Literature of the 19th Century.** Russian 19th-century literature to be studied in translation, and dealing with such authors as Gogol, Goncharov, Durova, Pavlova, Tolstoy, Dostoyevsky and Chekhov. (formerly AK/EN 3310 6.0)

*Note: Not open to students who have taken AK/EN 3310 6.0.*

## 20th Century to the Present (Period 3)

**AK/EN 3810 6.0 Poetry to mid-20th Century.** Poetry of Yeats, H.D., Pound, Eliot, Stein, Stevens and their contemporaries. (formerly AK/EN 3540 6.0)

*Note: Not open to students who have taken AK/EN 3540 6.0.*

**AK/EN 3820 6.0 British Novel to mid-20th Century.** Selected British novelists from Conrad, Lawrence, Joyce and Woolf, to mid-century writers. (formerly AK/EN 3590 6.0)

*Note: Not open to students who have taken AK/EN 3590 6.0.*

**AK/EN 3830 6.0 Drama to mid-20th Century: Dramas of Artistic and Political Rebellion.** Theatre and drama from the turn of the century to the 1950 's. Readings extend from pre-World War I dramatists such as Ibsen, Strindberg, Chekhov, and Shaw, through Brecht and O'Neill to Hellman, Hansberry, Miller, and Beckett. (formerly AK/EN 3510 6.0)

*Cross-listed to: AK/THEA 3430 6.0.*

*Note: Not open to students who have taken AK/EN 3510 6.0, or AK/THEA 3430 6.0.*

**AK/EN 3835 6.0 Medea to Mother Courage: Tragedy in Western Literature.** A study of concepts of tragedy and tragic themes in literature from antiquity to the present, viewed in their cultural and historical contexts as well as in relation to their contemporary relevance. Readings by authors such as Aeschylus, Shakespeare, Ibsen, Chekhov, Pirandello, Brecht. Period 2 or 3 credit. (formerly AK/EN 3000L 6.0)

*Cross-listed to: AK/HUMA 3300 6.0 and AK/FA 3300 6.0.*

*Note: Not open to students who have completed AK/EN 3000L 6.0, AK/HUMA 3300 6.0 or AK/FA 3300 6.0.*

**AK/EN 3836 6.0 The Comic Mode in Western Literature.**

Examines literary works that evoke the comic response in its many varieties. Philosophical, psychological and physiological theories of the comic will be explored, and relevant works in the visual arts and music will be surveyed briefly to supplement literary study. Period 2 or 3 credit. (formerly AK/EN 3000E. 6.0)

*Cross-listed to:* AK/HUMA 3605H 6.0.

*Note:* Not open to students who have taken AK/EN 3000E 6.0 or AK/HUMA 3605H 6.0.

**AK/EN 3838 6.0 Wisdom Literature.** Classical wisdom books of Oriental non-theistic, Judaeo-Christian, and American eclectic traditions. Focus is on language and imagery that reveal glimpses of original contemplative paths and practices. (formerly AK/EN 3710 6.0)

*Note:* Not open to students who have taken AK/EN 3710 6.0 prior to Fall/Winter 2001-2002, AK/EN 4100C 6.0 or AK/EN 4210 6.0.

**AK/EN 3839 3.0 Canadian Native Autobiography.** Canadian Native writers of the 19th and 20th centuries have defined themselves and their world through unique representations of their own life stories. The course explores the contexts and interpretations of "identity", "history", "literature", "tradition", and integrating different world views. (formerly AK/EN 3100P 3.0)

*Note:* Not open to students who have taken AK/EN 3100P 3.0.

**AK/EN 3840 6.0 Children's Literature.** Imaginative literature for children, including texts by A.A. Milne, L.M. Montgomery, C.S. Lewis, and Robert Munsch. Period 2 or 3 credit (formerly AK/EN 3000B 6.0)

*Cross-listed to:* AK/HUMA 3605L 6.0.

*Note:* Not open to students who have taken AK/EN 3000B 6.0 or AK/HUMA 3605L 6.0.

**AK/EN 3844 3.0 Patrick Kavanagh.** Examines the poetry of Patrick Kavanagh with some attention to his prose. (formerly AK/EN 3100T 3.0)

*Note:* Not open to students who have taken AK/EN 3100T 3.0.

**AK/EN 3845 3.0 Virginia Woolf.** Woolf developed new ways of representing human character and consciousness, time and memory, and of understanding gender differences in her fiction, essays and autobiographical writings. (formerly AK/EN 3591 3.0)

*Cross-listed to:* AK/HUMA 3370 3.0.

*Note:* Not open to students who have taken AK/EN 3591 3.0 or AK/HUMA 3620N 3.0.

**AK/EN 3846 6.0 By and About Women.** Studies the works of women writers in their historical, cultural and comparative contexts. Readings may include women's literary, philosophical, educational, religious and scientific writing, as well as diaries and letters. Period 2 or 3 credit. (formerly AK/EN 3100A 6.0)

*Cross-listed to:* AK/HUMA 3570 6.0.

*Note:* Not open to students who have taken AK/EN 3100A 6.0 or AK/HUMA 3570 6.0.

**AK/EN 3848 6.0 Modern Women Writers.** An excursion into the rich field of writing by important 20th-century women authors drawn from Italian, French, German, and English-speaking cultures, explored from a comparative perspective. We study the interaction of gender, class, culture, history, and individual circumstance. (formerly AK/EN 3555 6.0)

*Cross-listed to:* AK/HUMA 3360 6.0.

*Note:* Not open to students who have taken AK/EN 3555 6.0.

**AK/EN 3852 3.0 Modernist Movements: Anglo-American Modernism.** Writers such as Yeats, Pound, Eliot, H.D., Moore, Woolf and Williams in their attempts to define and promote modernity in the early 20th century. Makes connections with developments in English-Canadian literature.

*Note:* Not open to students who have taken AK/EN 3440 6.0.

**AK/EN 3853 3.0 Modernist Movements: Dada/Surrealism in Europe and North America.** Studies writers such as Breton, Schwitters, Artaud, Stein, Joyce, and Gaudreault, contemporary to those mentioned for AK/EN 3852 3.0, but more typically described as avant-garde and linguistically experimental.

*Note:* Not open to students who have taken AK/EN 3440 6.0.

**AK/EN 3854 6.0 Literature of the Fantastic.** The nature of the fantastic in 19th- and 20th-century literature. Studies in comparative theories of the fantastic, especially psychoanalytical, symbolic and mythological approaches, and various examples of fantastic fiction: the gothic, grotesque, uncanny, unreal and the double. (formerly AK/EN 3860 6.0)

*Note:* Not open to students who have taken AK/EN 3860 6.0 prior to Fall/Winter 2001-2002.

**AK/EN 3855 6.0 Post-Colonial Writing in English.** Conflicts and paradoxes that characterize the multiple use of the term "post-colonialism". The authors, writing in English, respond to the British colonial experience. Issues include language, gender, race, history, the canon and concepts of de-canonization. (formerly AK/EN 3210 6.0)

*Note:* Not open to students who have taken AK/EN 3210 6.0.

**AK/EN 3856 6.0 Black Writers and Their Worlds.** Primarily concerns itself with African-American and African-Canadian literature, both as it reflects these cultures and as it responds to the dominant cultures, their literary traditions and their racism. (formerly AK/EN 3000D 6.0)

*Cross-listed to:* AK/HUMA 3380 6.0.

*Note:* Not open to students who have taken AK/EN 3000D 6.0 or AK/HUMA 3380 6.0.

**AK/EN 3857 6.0 American Literature to mid-20th Century.** Significant novelists, dramatists, and poets from the turn of the century, with consideration of the literary movements, and the social and political milieu in which they worked. (formerly AK/EN 3550 6.0)

*Note:* Not open to students who have taken AK/EN 3550 6.0.

**AK/EN 3858 6.0 Comparative Issues in Canadian and American Native Literatures.** Examines similarities and contrasts in contemporary Native writers in Canada and the United States. The course explores many varied interpretations of Native historical experience, definitions of culture, "self-determination" and the meaning and implications of "Indian" identities. (formerly AK/EN 3000J 6.0)

*Cross-listed to:* AK/HUMA 3605M 6.0.

*Note:* Not open to students who have taken AK/EN 3000J 6.0.

**AK/EN 3859 6.0 Popular Culture in the 20th Century.** Surveys historical and contemporary approaches to the texts and contexts of popular music, film, television, fiction, folklore, fashion. Themes include changing definitions of the "popular"; industrialization of culture; the politics of "style"; genre and gender; nature and other utopias. (formerly AK/EN 3000K 6.0)

*Cross-listed to:* AK/HUMA 3980 6.0.

*Note:* Not open to students who have taken AK/EN 3000K 6.0 or AK/HUMA 3980 6.0.



**AK/EN 3860 6.0 Canadian Literature to Mid-20th Century.** The emergence and development of a major canon of Canadian poetry and prose-fiction in the 20th century, with some emphasis on the evolution of a body of Canadian literary criticism. (formerly AK/EN 3620 6.0)

*Note: Not open to students who have taken AK/EN 3620 6.0 prior to Fall/Winter 2001-2002.*

**AK/EN 3862 3.0 Caribbean Literature.** Examines Caribbean literature in English. The course explores how colonialism, postcolonialism, and the lived experiences of the Caribbean people have shaped the novel, short story, poetry, and drama. (formerly AK/EN 3110C 3.0)

*Note: Not open to students who have taken AK/EN 3110C 3.0.*

**AK/EN 3863 6.0 Literature of Ireland.** Mangan, Yeats, Joyce, Kavanagh, Heaney, Edna O'Brien, Ni Dhomhnaill, authors of the Gaelic literature (in translation) which has inspired many modern Irish authors, and of the historical contexts in which the works have been written. (formerly AK/EN 3680 6.0)

*Cross-listed to: AK/HUMA 3605S 6.0.*

*Note: Not open to students who have taken AK/EN 3680 6.0 or AK/HUMA 3605S 6.0.*

**AK/EN 3865 6.0 Canadian Women's Theatre in English: A survey of Canadian theatre/drama by women from the 19th century to the present.** Examines Canadian women's dramatic/theatrical activity in English in a range of genres over the past 150 years. It situates its study of these plays in the context of social and theatrical history, and discourses of canonization, gender, and genre.

**AK/EN 3870 6.0 Modern Québécois Fiction in Translation.** The post-war fiction of Québec has been varied and lively. Some of its trends include traditional realism, through politically-oriented and nationalist writing, to feminism and post-modernism. (formerly AK/EN 3320 6.0)

*Note: Not open to students who have taken AK/EN 3320 6.0 or AK/CDNS 3320 6.0.*

**AK/EN 3910 6.0 Contemporary Poetry.** Poetry written in English during recent decades, tracing the development of traditional and new poetic ways of dealing with experience. (formerly AK/EN 3520 6.0)

*Note: Not open to students who have taken AK/EN 3520 6.0 prior to Fall/Winter 2001-2002.*

**AK/EN 3930 6.0 Contemporary Drama.** Theatre and drama of recent decades; selected American, Canadian, British and other European plays. (formerly AK/EN 3670 6.0)

*Cross-listed to: AK/THEA 3440 6.0.*

*Note: Not open to students who have taken AK/EN 3670 6.0 or AK/THEA 3440 6.0.*

**AK/EN 3940 6.0 Contemporary Children's Literature: An Intercultural Perspective.** Examines contemporary children's literature reflecting the diversity of our society and the oral traditions of different cultures. For comparison, selected 'classes' are studied. The approach is thematic rather than chronological or by genre. (formerly AK/EN 3100Y 6.0)

*Note: Not open to students who have taken AK/EN 3100Y 6.0.*

**AK/EN 3943 3.0 Margaret Atwood: The Poetry.** Examines the poetry of Margaret Atwood as craft and the vision within that craft.

**AK/EN 3944 3.0 John Montague.** A close study of the works of this contemporary Irish poet. (formerly AK/EN 3100W 3.0)

*Note: Not open to students who have taken AK/EN 3100W 3.0.*

**AK/EN 3945 3.0 Austin Clarke: The Fiction and Non-Fiction.**

Analyzes the nature of Austin Clarke's prose, the fiction and the non-fiction. It studies the creative development of southern island sensibility in northern urban milieu, a black mode of awareness in a predominantly white society. It studies the resolution of this creative tension in his thirteen books of fiction. (formerly AK/EN 3100L 3.0)

*Note: Not open to students who have taken AK/EN 3100L 3.0.*

**AK/EN 3960 6.0 The Healing Fiction: Literature and Medicine.**

An online seminar-workshop course working with texts by various authors who explore the boundaries between imaginative literature and personal or social healing. (formerly AK/EN 3100Z 6.0)

*Cross-listed to: AK/HUMA 3605R 6.0.*

*Note: Not open to students who have taken AK/EN 3100Z 6.0 or AK/EN 3910 6.0.*

**AK/EN 3963 6.0 Contemporary Writing in Canada.** A selection of recent work by Canadian poets, novelists and playwrights. (formerly AK/EN 3700 6.0)

*Note: Not open to students who have taken AK/EN 3700 6.0.*

**AK/EN 3965 3.0 Cyberfiction: Literature and Informatics.**

Speculative prose fictions by Wolfe, Dick, Burroughs, Gibson, Stephenson and others that show the relations of literary texts and the cultural implications of current scientific theories, especially information theories, and technological artifacts. (formerly AK/EN 3895 3.0 – listed in error as 6.0 in the 2000-2001 Atkinson Calendar)

*Note: Not open to students who have taken AK/EN 3895 3.0.*

**AK/EN 3966 6.0 Politics and Literature.** An analysis of major literary works reflecting various aspects of the political process. The course will deal with the connection between literature and politics in a variety of ways. Literature will be viewed as a reflection of prevailing political ideologies, as propaganda, as political satire and as political criticism. (formerly AK/EN 3000H 6.0)

*Cross-listed to: AK/POLS 3550 6.0 and AK/HUMA 3605P 6.0.*

*Note: Not open to students who have taken AK/EN 3000H 6.0.*

**AK/EN 3970 6.0 Trends in Contemporary European Literature.**

Trends and dominant themes in modern literature of France, Spain, Germany, the Czech Republic, Poland, and Russia. (formerly AK/EN 3580 6.0)

*Note: Not open to students who have taken AK/EN 3580 6.0.*

## Creative Writing

**AK/EN 3980 6.0 Creative Writing.** A multi-media learning environment designed to bring out the writer in you. (formerly AK/EN 3770 6.0) There are no prerequisites.

*Note: Not open to students who have taken AK/EN 3770 6.0 prior to Fall/Winter 2001-2002, AK/EN 3100H 6.0, AK/EN 3777 6.0.*

**AK/EN 3981 6.0 Creative Writing: Prose.** A seminar-workshop. In-class writing instruction and practice based on awareness techniques, home and street assignments, journal writing, dream recording. Models studied include writers such as Lawrence, Miller, Durrell, Nin, Burroughs, Kerouac. (formerly AK/EN 3780 6.0)

*Note: Not open to students who have taken AK/EN 3780 6.0, AK/EN 3100 6.0, AK/EN 3778 6.0.*

## Selected Topics:

**AK/EN 3996 3.0 (3996 6.0) Selected Topics.** In any given session, the following courses may be offered. (formerly AK/EN 3000 6.0)

- A. Female/Male Perspectives in Literature (cross-listed to: AK/HUMA 3605C 6.0)

*Note: Not open to students who have taken AK/EN 3000A 6.0 or AK/HUMA 3605C 6.0.*

### Special Topics:

**AK/EN 3997 3.0 (3997 6.0) Special Topics.** Topics may vary from session to session. (formerly AK/EN 3100 3.0 (3100 6.0) I, II, III)

- E. George Eliot (formerly AK/EN 3100Z 3.0) (cross-listed to: AK/HUMA 3605E 3.0)

Proposed courses under this rubric will be announced by the School of Arts and Letters before each academic session. Consult individual course outlines.

*Note: E is not open to students who have taken AK/EN 3100Z 3.0 or AK/HUMA 3605E 3.0.*

### 4000-Level Honours Seminars

Prerequisite for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Coordinator of English must be obtained.

Most of the following courses fall quite clearly into one or another of the required periods, as designated. Students taking courses not so designated may sometimes fulfill a period requirement by concentrating their work in a specific area, in consultation with the course director.

*Note: Honours students may need a 4000-level course in a particular period to complete their degree. If such a course is not being offered in any given session, students should contact the Head of English.*

**AK/EN 4073 6.0 Literature and Other Arts.** Studies in critical theory and literature's relationship to the visual arts, music and film. Period 2 or 3 credit. (formerly AK/EN 4010 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained.

*Note: Not open to students who have taken AK/EN 4010 6.0.*

**AK/EN 4075 6.0 Archetype, Myth and Symbol.** A seminar exploring the archetypal approach to literary criticism. Period 2 credit. (formerly AK/EN 4020 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained.

*Note: Not open to students who have taken AK/EN 4020 6.0.*

**AK/EN 4095 3.0/6.0 Directed Reading.** Affords an opportunity to conduct a detailed, independent study of the student's own choosing. (formerly AK/EN 4000 3.0/6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained.

### Medieval and Renaissance (Period 1)

**AK/EN 4330 6.0 Elizabethan and Jacobean Drama.** Selected plays by Shakespeare and contemporaries such as Marlowe, Jonson, Chapman, Webster, Tourneur, Middleton and Ford. (formerly AK/EN 4040 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained. In addition, students must have taken a 3000-level English course in the Renaissance period.

*Note: Not open to students who have taken AK/EN 4040 6.0.*

**AK/EN 4336 6.0 The Renaissance Epic.** Works such as Sidney's *Arcadia*, Spenser's *Faerie Queene*, and Milton's *Paradise Lost*. (formerly AK/EN 4050 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. In addition, a 3000-level English course in the Renaissance period or, for students with equivalent preparation, permission of the Head of English.

*Note: Not open to students who have taken AK/EN 4050 6.0.*

### 1660-1900 (Period 2)

**AK/EN 4600 6.0 Advanced Readings in Romanticism.** Some of the longer works of the Romantics in the light of their own aesthetic and metaphysical formulations. (formerly AK/EN 4080 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained. In addition, students must have taken AK/EN 3625 6.0. (formerly AK/EN 3500 6.0)

*Note: Not open to students who have taken AK/EN 4080 6.0.*

**AK/EN 4752 6.0 Women Novelists of the 19th Century.** The fiction of Jane Austen, the Brontës, and George Eliot, in the perspective of their historical and social background. For students with equivalent preparation, permission of the Head of English must be obtained. (formerly AK/EN 4090 6.0)

*Note: Not open to students who have taken AK/EN 4090 6.0.*

### 20th Century to the Present (Period 3)

**AK/EN 4851 6.0 Studies in Poetry by Women in the 20th Century.** A selection of work by women poets, viewed in the light of contemporary critical theorising of women's writing. Period 2 or 3 credit. (formerly AK/EN 4140 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained.

*Note: Not open to students who have taken AK/EN 4140 6.0, AK/EN 3100K 6.0 or AK/EN 3744 3.0.*

**AK/EN 4864 6.0 Major Canadian and American Novelists to mid-20th Century.** The fictions of three or four storytellers who have produced a considerable body of significant works, such as Faulkner, Fitzgerald, Hemingway, Oates, Beattie, Callaghan père, Laurence, and Munro. (formerly AK/EN 4060 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained. In addition, students must have taken a 3000-level English course in fiction or Canadian or American literature.

*Note: Not open to students who have taken AK/EN 4060 6.0.*

**AK/EN 4879 6.0 Seminar in Literary Theory.** Selected 20th Century methods of literary analysis in relation to their theoretical and philosophical foundations. Topics may include aesthetics, design, linguistics, stylistics, structuralism, discourse analysis, hermeneutics, deconstructionism, psychoanalysis, Marxism, feminism, phenomenology and reader-response.

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained. (formerly AK/EN 4130 6.0)

*Note: Not open to students who have taken AK/EN 4130 6.0.*

### AK/EN 4950 6.0 Contemporary Canadian Women Writers.

Poetry, drama and fiction by Canadian women writers of recent decades including works by French Canadian authors in translation. (formerly AK/EN 4070 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained.

*Note: Not open to students who have taken AK/EN 4070 6.0.*

### AK/EN 4964 6.0 Literature After the Concentration Camps.

Prose and poetry that reflect the experience of total war, civil strife, concentration and extermination camps. (formerly AK/EN 4030 6.0)

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained.

*Note: Not open to students who have taken AK/EN 4030 6.0.*

### Special Topics:

**AK/EN 4997 3.0/6.0 Special Topics.** Topics vary from session to session, to offer in rotation a variety of specialized studies in different literary periods, genres and themes.

*Prerequisite* for all English courses at this level is registration in an Honours Program and 78 credits. For students with equivalent preparation, permission of the Head of English must be obtained. (formerly AK/EN 4100 3.9 (4100 6.0))

- A. English Drama from the Middle Ages to 1642

*Note: Not open to students who have taken AK/EN 4100A 3.0 (4100A 6.0).*

## Writing Programs

### Office:

Writing Programs

Room 116 Atkinson, Tel: 416-736-5289, Fax: 416-736-5782

Although Atkinson does not offer a degree program in Writing Programs, the following courses are available and recommended for all students, and in particular for those studying at Atkinson. Writing Program courses count as elective credits.

**AK/EN 1400 6.0 Critical Thinking, Reading, and Writing.** By means of a study of texts and themes drawn from the Humanities and Social Sciences, as well as from English Literature, the course aims to develop critical comprehension and the discipline of effective expression in written English.

*Note 1: This course is considered an elective outside the major for students majoring in English.*

*Note 2: English 1400 6.0 is particularly intended for students taking one of their first few University courses, and will require completion of frequent written assignments. Special sections of the course are offered for students for whom English is a second language. The number of places available is limited. For further information about this course, please call Writing Programs at 416-736-5289.*

### AK/EN 3988 3.0 Writing University Research Papers.

Researching and writing university papers in the humanities and social sciences, the thorough study of a designated theme. Areas covered include formulating research questions, using research tools such as libraries and the Internet, primary and secondary sources and proper citation practice.

*Prerequisite:* Humanities or Social Science General Education course or the equivalent.

**AK/EN 3989 3.0 Writing in the Workplace.** Examines various types of workplace related writing and oral communication; for example, report writing, executive summary, business plan, presentation. Focus on helping students develop clear writing, both individual and in collaboration with others and skills in editing and presentation.

*Prerequisites:* 12 credits in social science or humanities. Not open to students who have taken GL/TRAN 3310 and GL/TRAN 4310.

## Fine Arts

### Office:

School of Arts and Letters

Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

### Interdisciplinary Fine Arts Courses

These courses may be taken variously as Fine Arts electives outside the discipline major or, depending on particular course contents, Fine Arts courses may be counted as a discipline major credit. Please check the School mini-calendar for details.

**AK/FA 2010 3.0/6.0 Selected Topics in Interdisciplinary Fine Arts.** Treatment of various topics in Fine Arts.

*Note: Not open to students who have taken AK/FA 2010 3.0 or AK/FA 2010 6.0.*

**AK/FA 2100 6.0 Art and Technology.** Combining theory and introductory studio components, the course surveys the invention and evolution of technologies of art practices in music, theatre, film and the visual arts from oil painting to the internet, from the drum to the digital synthesizer. How technologies change the relationship between art and its audiences and the relationship among the art disciplines themselves is a key thematic.

*Cross-listed to:* AK/HUMA 2100 6.0 and FA/INFA 2920D 6.0 Art and Technology.

*Prerequisite:* One general education course.

**AK/FA 3010 3.0 (3010 6.0) Selected Topics in Interdisciplinary Fine Arts.** Treatment of various topics in Fine Arts.

- A. Theory and Practice of Video Art in Performance and Installation (6.0) (Studio)
- B. The Melodramatic Imagination: Opera, Music, Film (6.0)
- C. Performance Art: The Politics of Identity/Sites of Political Activism (6.0)
- D. Memory and Place (6.0) (cross-listed to: FA/FACS 3920J 6.0)

*Prerequisite:* D. 2000-level Fine Arts courses and discussion with Course Director.

*Note: Students may not enrol in both a 3.0 and 6.0 credit version of AK/FA 3010 in the same subject area for degree credit.*

**AK/FA 3100 6.0 Philosophy of Art.** The course focuses upon one of the essential problems for artists and art theoreticians; the relationship between art and art theory. From this perspective conceptions about art developed by both artists and theoreticians are compared with the artistic experience and works of art in an attempt to find a common ground for both.

*Prerequisite:* A 1000-level General Education Mathematics or Modes of Reasoning course.

*Note: Not open to students who have taken AK/PHIL 3520 6.0.*

**AK/FA 3300 6.0 Medea to Mother Courage: Tragedy in Western Literature.** A study of concepts of tragedy and tragic themes in literature from antiquity to the present, viewed in their cultural and historical contexts as well as in relation to their contemporary relevance. Readings by authors such as Aeschylus, Shakespeare, Ibsen, Chekhov, Pirandello, Brecht.

*Cross-listed to:* AK/EN 3835 6.0 (formerly AK/EN 3000L 6.0) and AK/HUMA 3300 6.0.

*Note: Not open to students who have taken AK/HUMA 3740 6.0.*

**AK/FA 3502 3.0 (3502 6.0) Travel and Learn Special Topics.** In any given year, a lecture and travel course may be offered on a topic which is not included in the usual course offerings. Proposed topics and the specific prerequisites are announced each year. The specific travel requirements necessitate additional costs above and beyond tuition costs, and these will be announced each time a proposed topic is offered. This may count either as a Film, Music, Theatre or Visual Arts course (depending upon topics selected during that session).

- A. Art, Architecture and Urban Life in Europe
- B. Performance Art: The Politics of Identity/Sites of Political Activism

*Note: Students may not enrol in both a 3.0 and 6.0 credit version of AK/FA 3502 in the same subject area for degree credit.*

**AK/FA 4500 3.0/6.0 Selected Topics in Interdisciplinary Fine Arts.** Topics vary from session to session to offer a variety of specialized studies, genres and themes in Fine Arts. This may count either as a Film, Music, Theatre or Visual Arts course (depending upon topics selected during that session).

*Note: Students may not enrol in both a 3.0 and 6.0 credit version of AK/FA 4500 in the same subject area for degree credit.*

- A. Foundations of Creative Imagination (6.0)
- B. Integrated Arts in Education (6.0)
- C. Culture, Memory and Resistance: Responses to the Holocaust (6.0)

*Note: Entry to these courses only by permission of the Course Director.*

## Film

### Office:

School of Arts and Letters  
Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

*Note: Please consult annual Interdisciplinary Fine Arts course offerings (see under Courses of Instruction: Fine Arts, Interdisciplinary Fine Arts courses, designated with letter codes: AK/FA) since they may count as Fine Arts courses inside or outside your discipline major. For further information contact the Coordinator of Fine Arts in the School of Arts and Letters.*

### AK/FILM 2340 6.0 Video and Film Production (Studio).

Theoretical and practical introduction to video and film making, explored through a variety of approaches such as home movies, documentary, drama, performance and experimental film and video.

*Prerequisite:* Permission of the Film Coordinator. Interview required.

**AK/FILM 2400 6.0 Critical and Theoretical Approaches to the Art of Film.** An introduction to film examining the various critical and theoretical approaches that have so far been elaborated including the montage theory of Eisenstein, the Realist theory of Bazin and the contribution of structuralism and semiotics, accompanied by the screening of relevant films. Required of film majors.

**AK/FILM 2430 6.0 The Hollywood Cinema.** An investigation of Hollywood through the critical concepts of Authorship, Genre and Ideology, introducing the major critical approaches developed during the past decade derived from structuralism and psychoanalytical theory. Required of film majors.

**AK/FILM 3230 3.0 Images and Women I.** An examination from a feminist perspective of the ways in which women have been represented in mainstream Hollywood and classical film traditions.

*Cross-listed to:* FA/FILM 3810 3.0 Women and Film.

*Prerequisite:* FA/FILM 1400, AK/FILM 2400 6.0 or AK/FILM 2430 6.0 or permission of the course director.

**AK/FILM 3231 3.0 Images and Women II.** An examination of women authored cinema from a global perspective including feminist counter cinema, documentary, avant garde and narrative.

*Cross-listed to:* FA/FILM 3811 3.0 Women and Film.

*Prerequisite:* FA/FILM 1400, AK/FILM 2400 6.0 or AK/FILM 2430 6.0 or permission of the course director.

**AK/FILM 3240 3.0 The Director's Cinema.** A critical examination of theories of authorship through the study of a body of work by one or two directors.

*Cross-listed to:* FA/FILM 3250A 3.0.

*Prerequisite:* AK/FILM 2400 6.0, or AK/FILM 2430 6.0 or, for students with equivalent preparation, permission of the Film Coordinator.

*Note: This course may be taken more than once.*

**AK/FILM 3250 3.0 Work of Selected Filmmakers.** An intensive study of the stylistic and thematic elements in the work of two filmmakers or video producers contrasted in cultural background and conditions of production.

*Prerequisite:* AK/FILM 2400 6.0, or AK/FILM 2430 6.0 or, for students with equivalent preparation, permission of the Film Coordinator.

*Note: This course may be taken more than once.*

**AK/FILM 3310 3.0 (3310 6.0) Screenwriting.** Combining theoretical, critical and practical approaches, the course will examine the construction of various types of film script (both fictional and non-fictional), the problems of adaptation, the relationship between screenplay and completed film, the art of thinking cinematically. It will involve both the study of existing screenplays and films and the writing of original screenplays for short subjects.

*Prerequisite:* AK/FILM 2400 6.0, or AK/FILM 2430 6.0 or, for students with equivalent preparation, permission of the Film Coordinator.

*Note 1: This course may be taken as a studio or film study course.*

*Note 2: Not open to students who have taken AK/FILM 3310 3.0 or AK/FILM 3310 6.0.*

**AK/FILM 3440 3.0 European Cinema: Post-war.** Examines cinematic movements and the work selected directors in the immediate post war period. Movements such as French Poetic Realism and Italian Neo-Realism are situated in relation to their broad historic and social contexts and in relation to their aesthetic and stylistic innovations.

*Cross-listed to:* FA/FILM 3220A 3.0 Studies in European Cinema.

*Prerequisite:* FA/FILM 1400 6.0, AK/FILM 2400 6.0 or AK/FILM 2430 6.0 or permission of the course director.

**AK/FILM 3441 3.0 European Cinema: 1960-Present.** Examines cinematic movements and the work of selected directors from 1960 to the present. Movements such as the French New Wave, New German Cinema, New Spanish Cinema and Dogma are situated in relation to their broad historic and social contexts and in relation to their aesthetic and stylistic innovations.

*Cross-listed to:* FA/FILM 3220B 3.0 Studies in European Cinema.

*Prerequisite:* FA/FILM 1400 6.0, AK/FILM 2400 6.0 or AK/FILM 2430 6.0 or permission of the course director.

**AK/FILM 3450 3.0 (3450 6.0) The Documentary Film.** The "creative interpretation of reality" in film, from Flaherty to Cinéma Vérité and television. A study of changing forms, techniques and theories of documentary; its role in public information, propaganda and social analysis.

*Prerequisite:* AK/FILM 2400 6.0 or, for students with equivalent preparation, permission of the Film Coordinator.

**AK/FILM 3480 6.0 The Western: History and Myth.** The course will study the achievement within the Western genre of some of the most distinguished American directors while exploring the cultural, historical and ideological determinants operating within specific films and tracing the relationship of the Western to major works of American literature.

*Prerequisite:* AK/FILM 2400 6.0 and AK/FILM 2430 6.0 or, for students with equivalent preparation, permission of the Film Coordinator.

**AK/FILM 3530 3.0 Genre Study: Melodrama.** The concept of genre is investigated through the study of melodrama as a genre crossing distinctive national, institutional and historical categories. The cultural significance and social/historical determinants of melodrama are central to the course as well as the conventions, evolution and iconography of this popular genre.

*Cross-listed to:* FA/FILM 3420E 3.0 Studies in Genre [Melodrama].

**AK/FILM 3531 3.0 Genre Study: Horror.** The concept of genre is investigated through the study of the horror film as a genre crossing distinctive national, institutional and historical categories.

*Cross-listed to:* FA/FILM 3420D 3.0 Studies in Genre [Horror].

**AK/FILM 3600 6.0 Television and Society.** The course introduces conceptual approaches to the issue of the effect of television on contemporary society. Political economy of broadcasting, role of advertising in the mass media, theories of televisual spectatorship, and postmodern theories of the image will be studied.

*Prerequisite:* AK/FILM 2400 6.0.

**AK/FILM 3750 3.0 Studies in National Cinema.** This course concentrates on an exploration of the theory and cinema histories. The political economy of independent film, the cultural and political contexts of production, distribution and reception, distinct narrative traditions and the major cinematic movements are addressed.

A. African Cinema

B. Latin American Cinema

*Prerequisite:* AK/FILM 2400 6.0 or AK/FILM 2430 3.0.

**AK/FILM 4210 3.0 (4210 6.0) Film in Canada A.** This course examines a selected corpus of Canadian films, television programs and videos in relation to theories of cultural identity, nationalism and technologies of communication. The historic conditions of production, cultural policy, exhibition and distribution will form an important focus.

*Cross-listed to:* FA/FILM 3401A 3.0.

*Prerequisite:* AK/FILM 2400 6.0 or AK/FILM 2430 6.0 or, for students with equivalent preparation, permission of the Film Coordinator.

**AK/FILM 4211 3.0 Film in Canada B.** This course will develop specific thematic approaches to the study of Canadian film, television and video. Topics may include: state cultural policy, regional and alternative filmmaking, Quebec cinema, documentary, mainstream narrative feature filmmaking, key directors and movements.

*Cross-listed to:* FA/FILM 3401B 3.0.

*Prerequisite:* AK/FILM 2400 6.0 or AK/FILM 2430 6.0.

**AK/FILM 4410 3.0 (4410 6.0) Film and Social Change.**

Investigates the ways in which films of all kinds can be used as a means to radical insights into culture, giving consideration to the contributions to film criticism and theory offered by various radical movements such as Marxism, Feminism and Gay Liberation. Attention will be paid to films specifically intended to promote, change or challenge dominant norms.

*Prerequisites:* AK/FILM 2400 6.0 and one other film course or, for students with equivalent preparation, permission of the Film Coordinator.

**AK/FILM 4430 6.0 The Japanese Cinema.** The work of Japan's major filmmakers will be studied for its artistic merit and relation to the industry and culture within which the films were produced.

*Prerequisites:* AK/FILM 2400 6.0 and one other film course or, for students with equivalent preparation, permission of the Film Coordinator.

**AK/FILM 4450 3.0 Study of Selected Films.** Introduction to the theory and methodology of close textual readings. The emphasis is on precise and detailed analysis of selected films (supported by at least two complete rescreenings).

*Prerequisites:* AK/FILM 2400 6.0 plus one other film course or, for students with equivalent preparation, permission of the Film Coordinator.

*Note:* This course may be taken more than once.

**AK/FILM 4460 3.0 Case Studies of Selected Films.** The course concentrates on the intensive study of not more than 3 feature films (or the equivalent in shorter films). The historical and economic conditions of production and reception are examined in depth.

*Prerequisites:* AK/FILM 2400 6.0 plus one other film course or, for students with equivalent preparation, permission of the Film Coordinator.

*Note:* This course may be taken more than once.

**AK/FILM 4500 3.0 (4500 6.0) Selected Topics.** In any given year, a course may be offered in Film Studies on a topic which reflects the special interest or expertise of regular or guest faculty, and which is not included in the usual course offerings. Proposed topics and their prerequisites will be announced in the Spring of each year.

- A. Psychoanalysis and Film
- B. Sexual Politics in Film
- C. Hitchcock: Suspense, Gender, and Sexual Politics
- D. The Construction of the Star Image
- E. The Melodrama
- G. The Third Cinema: Race and Representation (6.0) (cross-listed to: FA/FILM 4500C 6.0)

*Note 1:* Entry to the course only by permission of the Film Coordinator. This course may be taken more than once.

*Note 2:* Students may not enrol in both a 3.0 and 6.0 credit version of AK/FILM 4500 in the same subject area for degree credit.

**AK/FILM 4550 3.0 (4550 6.0) Independent Study in Film.** Open to advanced students only, this course will give the highly motivated film student an opportunity to pursue intensive study on his or her own under the guidance of an instructor.

*Prerequisites:* Completion of at least 78 credits including all the required film courses: AK/FILM 2400 6.0 and AK/FILM 2430 6.0 plus 6 additional film credits and permission of the Coordinator of Fine Arts.

*Note: Not open to students who have taken AK/FILM 4550 3.0 or AK/FILM 4550 6.0.*

**AK/FILM 4600 3.0 (4600 6.0) Special Topics: Independent Cinema.** The course provides an intensive study of individual film and video directors and movements which have operated outside the Hollywood and European commercial systems.

- A. Contemporary Independent (3.0)
- B. Canadian Postmodern (3.0)

*Prerequisites:* AK/FILM 2400 6.0 and one 3000-level film course or, for students with equivalent preparation, permission of the Film Coordinator.

*The attention of students is directed to AK/FA 4500B 6.0 Integrated Arts in Education. Depending on the topic offered, AK/FA 4500B 6.0 may be counted as a Film Studio course. Consult the School for the current topic.*

## Geography

### Office:

School of Social Sciences  
Room 303 Atkinson, Tel: 416-736-5235, Fax: 416-650-3876

**AK/GEOG 2500 6.0 Introduction to Human Geography.** This course is an analytical introduction to Geography. Attention is focused on the impact of human decisions and activities on geographical relationships. The development and present significance of major geographical themes are traced, including population, resources, the environment and occupancy.

*Equivalent and degree credit exclusion:* AS/SC/GEOG 1410 6.0.

**AK/GEOG 2510 6.0 Introduction to Physical Geography.** Basic concepts in geomorphology, soils, biogeography, meteorology and climatology are discussed. The application of general systems theory to physical problems is considered. Laboratory work and field study are integral parts of the course.

*Equivalent and degree credit exclusion:* AS/SC/GEOG 1400 6.0.

**AK/GEOG 2550 6.0 Conservation and Environmental Education.** From a search for principles of conservation this course proceeds to evaluate conservation practices in the modern world, particularly in Ontario. It also investigates in detail the role of the outdoors as a "laboratory" providing an introduction to field techniques of various kinds. There may be a field centre fee in addition to the course fee (for further information see special flyer, or call 416-736-5235).

**AK/GEOG 3100 3.0 (3100 6.0) Special Topics.** Topics vary from session to session. Proposed courses under this rubric will be announced by the School before each academic session. Consult individual course outlines.

- A. Marketing Geography (3.0)

**AK/GEOG 3300 3.0 Fluvial Geomorphology.** This course is concerned with erosion, transportation and deposition by running water, resulting features of the landscape, and relevant theories, controversies, problems and directions. Firsthand experiences in observing the nature and work of rivers in the local region will be a central part of the course.

*Prerequisite:* AK/GEOG 2510 6.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 3310 3.0 (3310 6.0) Glacial and Periglacial Geomorphology.** A systematic study of glacial and periglacial landscapes, climatic change and methods used in the study of Quaternary landforms. Special emphasis is given to the Quaternary landscape of Ontario.

*Prerequisite:* AK/GEOG 2510 6.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

*Degree credit exclusions:* AS/SC/GEOG 2390G 3.0, AS/SC/GEOG 3400 3.0.

**AK/GEOG 3320 6.0 Mountain Geomorphology.** Field investigations of selected areas in the Rocky Mountains, Europe, South America or East Africa are conducted during the summer. Topics include an introduction to Quaternary geomorphology, field techniques and methods useful in landform interpretation and reconstruction of Quaternary mountain environments.

*Prerequisites:* AK/GEOG 2510 6.0 and permission of the Coordinator of Geography.

**AK/GEOG 3350 3.0 Climatology.** An analysis of atmospheric energy exchanges, the heat budget of the earth, temperature, pressure, wind and humidity as controls in physical climatology. Koeppen, Thornthwaite, Penman and other systems are applied in climatic analysis.

*Prerequisite:* AK/GEOG 2510 6.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 3360 3.0 (3360 6.0) Morphogenesis of Soils.** A study of the influence of climate, vegetation, parent material, topography and time on the development, classification and chemistry of soils.

*Prerequisite:* AK/GEOG 2510 6.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

*Note: When offered as a full course, additional attention will be given to Quaternary soils.*

**AK/GEOG 3370 3.0 (3370 6.0) Methods of Sediment and Soil Analysis.** An examination of methods of field and laboratory analyses of soils and sediments including soil sampling, soil mapping, mechanical analyses and data interpretation. Special emphasis is placed on soil and sediment research and field problems in Ontario.

*Prerequisite:* AK/GEOG 2510 6.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 3400 6.0 The Geographical Study of Populations.** The factors and characteristics of the distribution of populations on the earth, such as birth, fertility and death rates; religion; culture; and the prospects for future Canadian and world population patterns are examined. An emphasis is placed on migration, including the prehistoric populating of the earth, animal populations, the present rural-urban migration and post-war immigration to Toronto.

**AK/GEOG 3410 6.0 Cultural Geography.** The course is an examination of the spatial spread and development of cultures and the opposite and contemporary trend of convergence. The origins, diffusion and ensuing alterations in language, religion and the domestication of plants and animals by different peoples will be studied.

*Degree credit exclusions:* AS/GEOG 2060 3.0, AS/GEOG 2060 6.0, AS/GEOG 2065 3.0.

**AK/GEOG 3420 6.0 The Geography of Resource Utilization.** An examination of the factors affecting the spatial patterns of the exploitation and utilization of resources (for example, minerals, energy, people). The location of processing and marketing facilities and the integrative role of transportation networks are considered.

**AK/GEOG 3430 6.0 Urban Geography.** The pervasive impact of urbanization on human activities and their spatial expression will be the main theme of this course. There will be detailed study of the different types of urban places, considering both urban form and function. Also considered will be the relationships between urban, suburban and rural localities. Field studies, especially of urban land use, may be part of the course.

*Equivalent and degree credit exclusion:* AS/GEOG 3120 6.0.

**AK/GEOG 3440 6.0 Rural Environmental Studies.** This course will investigate problems of rural land classification and planning, the land use conflicts between forestry, agricultural, mining and recreational interests. It incorporates a contemporary survey of the impact of human population and technologies on natural resources and space.

*Equivalents and degree credit exclusions:* AS/GEOG 3110 6.0, AS/SOSC 3750 6.0.

**AK/GEOG 3450 6.0 Political Geography.** Geographical elements in contemporary national and international affairs are the major subject matter of this course. Attention is focused on the roles of location, physical environments, population distributions, ethnic groups, natural resources, space and boundary features and technological change in the evolution of states and dependent territories.

*Equivalents and degree credit exclusions:* AS/GEOG 2050 6.0, AS/GEOG 3050 6.0.

**AK/GEOG 3460 6.0 Medical Geography.** This course examines world and regional patterns of disease and malnutrition. It considers the spatial association of environment and the way of life of its inhabitants in creating health problems.

**AK/GEOG 3470 3.0 Geography of Nutrition.** This course examines world and regional patterns of food consumption and their influence on health. It focuses on the concept that malnutrition is due to nutritional excesses as well as deficiencies. The roles of culture and environment as they influence nutrition, in a medical geographic context, are considered.

**AK/GEOG 3480 3.0 Geography of Health Care Systems.** This course examines the health care organization at provincial, national and international levels. It focuses on the locational interaction between health personnel, patient behaviour patterns and distribution of facilities.

**AK/GEOG 3490 6.0 Making Canada: Two Centuries of Landscape and Social Changes.** This course investigates transformation of the territory from a condition of Nature- to Human-dominance, including attitudes to environment, clearing land, spread of farming, regimentation of the landscape and the organization of societal responses to occupying a new land. Emphasis is on the 19th and early 20th centuries.

*Note:* Not open to students who have taken AK/CDNS 3490 6.0.

**AK/GEOG 3500 3.0 (3500 6.0) Research Procedures.** The course examines research procedures commonly found in geographical literature in terms of their overall goals. General problems besetting geographical research will serve as a framework for the examination of particular modes of explanation.

*Prerequisites:* AK/GEOG 2500 6.0 and AK/GEOG 2510 6.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 3510 6.0 Conservation and Urbanization.** This course clarifies the kinds of dilemmas that arise from growing and spreading urban populations demanding open space, air, water, wilderness. The focus is on how to interpret and assess such demands and how to plan a true conservator approach to the natural environment.

**AK/GEOG 3520 3.0 Quantitative Techniques and Applications in Geography.** This course is an introduction to fundamental descriptive and inferential statistics, and their use in geography.

**AK/GEOG 3530 6.0 Geography of Tourism and Recreation.** This course considers the social and environmental impact of recreational activities and tourism at local, national and international levels. It includes aspects of tourism in developing and more advanced countries. Recreation for urban populations in the Canadian context is emphasized.

**AK/GEOG 3540 6.0 Geographical Interpretations of Canada.** This course will explore the geographical complex of Canada through an examination of such themes as the physical base, resource base, resource use, population distribution and regional disparities. Field study and practical exercises will usually be part of the course.

*Equivalent and degree credit exclusion:* AS/GEOG 3010 6.0.

**AK/GEOG 3550 3.0 (3550 6.0) Case Study in Regional Analysis.** This course provides in-depth studies of a region or regions.

- A. Physiography of Ontario
- D. Peopling of Ontario
- E. Themes in Latin American Geography
- L. Africa: A Geographical Analysis (6.0) (Degree credit exclusions: AS/GEOG 3090 3.0, AS/GEOG 3390Z 3.0)
- M. The New Baltic Region (6.0)
- N. California: Land and Life (3.0)

**AK/GEOG 3570 3.0 Cartography.** Topics considered include cartographic drawing and measuring techniques, the principles of map making, map design and layout, reproduction techniques, relief representation, the nature and use of map projections, and graphs and statistical mapping. Emphasis is upon the use of the map as an analytical tool.

*Prerequisite:* AK/GEOG 2500 6.0 or AK/GEOG 2510 6.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 3590 6.0 Conservation in Canada.** The emergence of conservation concern is the focus of this course. Attitudes toward nature are traced through changing geographical knowledge, our role as steward of our habitat, prophets and prophetic actions, uncontrolled and controlled uses of the environment, from the 18th century to the dawning of the Spaceship Earth concept.

**AK/GEOG 3600 3.0 Computer Cartography.** Introductory course in Geographic Information Systems (GIS), oriented around raster structures. Computer graphics for mapping introduced and work undertaken on finely divided surfaces. GIS considers both practical and theoretical questions of interpretation. Macintosh computers and raster-based software used for hands-on focus.

*Prerequisites:* AK/GEOG 2500 6.0 and AK/GEOG 2510 6.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

*Equivalents and degree credit exclusions:* AS/SC/GEOG 3180 3.0, ES/ENVS 3520 3.0.

**AK/GEOG 4100 6.0 Seminar in the Theory of Geography.** This course will deal chiefly with current theories in Geography. The main intention of the course will be to enrich the students' knowledge of the gamut of geographical themes so that they might profitably engage in further Honours studies.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Geography.

*Degree credit exclusion:* AS/GEOG 4130 3.0.

**AK/GEOG 4110 6.0 Seminar in Quaternary Environments.** This course is a study of the geographic, geologic and pedologic methods used to identify, date and correlate Quaternary deposits, and reconstruct Quaternary environments. Considerable emphasis is placed upon Northern and Cordilleran portions of North America.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 4120 6.0 Seminar in Transportation Geography.** A notable component in spatial studies is the circulation of people and commodities. This course analyzes the structures and many inter-relationships involved in transportation systems.

*Cross-listed to:* AK/URST 4120 6.0.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 4130 6.0 Planned Communities.** This course will study different forms of planned communities such as new towns, planned suburbs, expanded towns and sub-divisions. The relationships of social, ecological and economic factors will be considered.

*Cross-listed to:* AK/URST 4130 6.0.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 4140 6.0 Seminar in Rural Land Use.** This course is an examination of systems of classification and decision-making factors in various types of rural land utilization. Emphasis is placed on gathering, assembling and plotting of data, development and analysis of patterns, and applications to land-use planning.

*Cross-listed to:* AK/URST 4140 6.0.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Geography.

*Degree credit exclusions:* AS/GEOG 4140 3.0.

**AK/GEOG 4150 3.0 (4150 6.0) Directed Reading.** Students will select one or two specific areas in which to do extensive reading and writing.

*Prerequisites:* 78 credits, and permission of the Coordinator of Geography.

*Note: Students must be accepted by a faculty supervisor before they can register in this course. The course transaction form for such a course must be submitted with a note from the supervisor stating his or her willingness to perform this task. Permission of the Coordinator is also required.*

**AK/GEOG 4180 6.0 Advanced Urban Geography.** This course will examine some current frontiers of research in urban geography. Settlement distribution models, spatial interaction, urban land-use theory, urban images and decision-making concerning spatial behaviour are some examples of possible subjects of study.

*Cross-listed to:* AK/URST 4180 6.0.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Geography.

*Degree credit exclusions:* AS/GEOG 4110 3.0.

**AK/GEOG 4190 6.0 Seminar in Historical Geography.** A number of geographical concepts and techniques of analysis are applied to historical evidence by means of seminar discussions and student research.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 4200 6.0 Quantitative and Mechanical Techniques in Geographical Research.** This course is concerned with advanced quantitative techniques. Both the structure of the techniques and their application to empirical geographic problems will be discussed, through the examination of relevant literature.

*Prerequisites:* 78 credits or, permission of the Coordinator of Geography.

**AK/GEOG 4210 6.0 Seminar in Medical Geography.** This is an advanced course for students who have already taken health-related courses. It focuses on research and literature reviews of disease occurrence and distribution, malnutrition and health care systems.

*Prerequisites:* 78 credits including one of: AK/GEOG 3460 6.0, AK/GEOG 3470 3.0, AK/GEOG 3480 3.0, AK/NATS 1840 6.0 or AK/ADMS 4700 6.0 series courses or, for students with equivalent preparation, permission of the Coordinator of Geography.

**AK/GEOG 4220 3.0 Geographic Information Systems.** Advanced course in Geographic Information Systems (GIS), oriented around vector objects and attributes in data base files. GIS considers both practical and theoretical questions of interpretation. Macintosh computers and vector-based software used with large data bases. A hands-on course.

*Prerequisite:* AK/GEOG 3600 3.0 or, for students with equivalent preparation, permission of the Coordinator of Geography.

*Equivalent and degree credit exclusion:* AS/GEOG 4340 3.0.

*Degree credit exclusion:* ES/ENVS 4520 3.0.

**AK/GEOG 4500 6.0 Research Paper.** The Research Paper, which is normally the last geography course of an honours candidate, is a piece of work carried out under the supervision of a faculty advisor.

*Prerequisites:* 102 credits and permission of the Coordinator of Geography.

*Note: Students must be accepted by a faculty supervisor before they can register in this course. The course transaction form for such a course must be submitted with a note from the supervisor stating his or her willingness to perform this task.*

**AK/GEOG 4730 6.0 Practicum in Environmental Studies.** This course provides an opportunity for a student to apply environmental studies concepts in a practical context. Each student will be under the supervision of a faculty member and report on the experience drawn from the practicum.

*Cross-listed to:* AK/STS 4730 6.0.

*Prerequisites:* 78 credits, a B average in the major courses and permission of the Coordinator of either Science and Technology Studies or Geography. Open only to students pursuing an Honours degree in Conservation and Environmental Studies or a BSc option in Environmental Science.

*Note 1: The prospective student is responsible for the organization of the practicum. Regular contact with a faculty supervisor and submission of a report at the end of the course are required. The practicum may take place within a government agency, educational institution, a private firm or a voluntary organization. Students should discuss their ideas with a faculty member before applying formally.*

*Note 2: Permission from the Coordinator of either Science and Technology Studies or Geography and the faculty supervisor must be obtained prior to the student enrolling in the course.*



## Greek

### Office:

School of Arts and Letters  
Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

A degree program including Greek courses is available under Classical Studies.

**AK/GK 1400 6.0 Introductory Classical Greek.** A course for students with little or no previous training in Classical Greek. The course will cover the rudiments of Greek grammar and provide practice in the translation into English of sentences and short passages from Greek authors. This course provides a firm basis for both Classical and Biblical Greek Studies.

*Note: Not open to students who have taken AS/GK 1000 6.0.*

**AK/AS/GK 1410 6.0 Introductory Modern Greek.** This course teaches the fundamentals of modern Greek: the writing system, pronunciation, basic forms and syntax, with some practice in simple conversation, reading and writing.

*Note 1: Not open to students who obtained their high school "apolytirion" (Grade 12) from a Greek high school.*

*Note 2: Students with no background in Greek should consult the Coordinator of Classical Studies.*

**AK/GK 2410 6.0 Intermediate Classical Greek.** A course for students with some previous training in Classical Greek. The course will provide an intensive review of Greek grammar and practice in the translation of prose texts from the Classical Period.

*Prerequisite:* AK/GK 1400 6.0 or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

*Note: Not open to students who have taken AS/GK 2000 6.0.*

**AK/GK 2420 6.0 Biblical Greek.** A course for students with some previous training in Classical Greek. The course will provide an intensive review of Greek grammar and practice in the reading of Biblical texts.

*Prerequisite:* AK/GK 1400 6.0 or AK/AS/GK 1410 6.0 or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/AS/GK 2430 6.0 Intermediate Modern Greek.** This course is designed to improve the student's oral and written command of the modern Greek language. Short texts relevant to modern Greek culture will be read and analyzed for their content and style.

*Prerequisite:* AK/AS/GK 1410 6.0 or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/GK 3420 3.0 (3420 6.0) Special Topics in Classical Greek Literature.** In a given year an additional course on a particular author or authors may be offered to meet needs of students.

*Prerequisite:* A 2000-level course in Classical Greek or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/GK 3430 3.0 (3430 6.0) Special Topics in Modern Greek Literature.** Topics in modern Greek Literature and culture.

*Prerequisite:* AK/AS/GK 2430 6.0 or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/GK 3440 6.0 Modern Greek Literature and Culture before Independence.** A survey of the major trends in Greek literature and culture from the 11th to the early 19th century.

*Prerequisites:* AK/GK 1400 6.0; AK/AS/GK 2430 6.0; or permission of the Coordinator of Classical Studies. Fluency in Greek is essential.

**AK/AS/GK 3450 6.0 Modern Greek Literature and Culture after Independence.** A general survey of the development of Greek literature and culture from the early 19th century to the present.

*Prerequisites:* AK/AS/GK 1410 6.0; AK/AS/GK 2430 6.0 or permission of the Coordinator of Classical Studies. Fluency in Greek is essential.

**AK/GK 3500 6.0 Comparative Studies in Ancient and Modern Greek Literature.** This course explores the relationships between, Ancient and Modern Greek literature from literary, artistic, religious and cultural perspectives.

*Prerequisites:* AK/GK 1400 6.0 (or equivalent preparation); AK/AS/GK 2430 6.0 (or equivalent preparation).

*Note: All works will be read in the original. A brief review of Ancient Greek grammar is included.*

**AK/GK 4000 3.0 (4000 6.0) Reading in Greek Authors.** An independent reading course with material chosen according to the interest of the student.

*Prerequisite:* Permission of the Program Coordinator.

*Note: Students must be accepted by a faculty supervisor before they can register in a 4000-level reading course. The course transaction form for such a course must be submitted with a note from the supervisor stating his/her willingness to perform this task.*

**AK/GK 4010 6.0 Greek Theatre in the 20th Century.** An examination of the 20th-century Greek theatre from two perspectives: its roots in ancient and Byzantine Greek theatre; its relation to international theatrical trends and ideological movements of the modern period.

*Prerequisite:* Permission of the Coordinator of Classical Studies.

**AK/GK 4020 6.0 The Greek Language.** An introduction to the history of the Greek language from its origins in Indo-European to the present day.

*Prerequisite:* Permission of the Coordinator of Classical Studies.

## Health Studies

### Office:

TBD

### Contact:

Atkinson Office of the Dean  
Tel: 416-736-5220, Fax: 416-736-5750

**AK/HLST 1000 6.0 Introduction to Health Studies.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 2000 3.0 Determinants of Health.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 2100 6.0 Public Policy and Health Care.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 3000 3.0 Foundations of Health Informatics.** Examines concepts, principles and processes of information management in health care focusing on the knowledge and skills required for leadership roles in developing and managing new technology. Trends and issues related to computerization in health are critically explored.

*Cross-listed to:* AK/NURS 3200 3.0.

*Prerequisite:* AK/NURS 3190 3.0 (formerly AK/NURS 1000 3.0) or AK/AS/SC/COSC 1520 3.0 or, for students with equivalent preparation, permission of the Director of Nursing.

**AK/HLST 3010 3.0 Business Communication.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 3100 3.0 Evidence-Based Decision Making in Integrated Health Systems: Concepts and Applications.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 3110 3.0 History of Health Policy in Canada.** Please contact the Chair of the School of Health Policy and Management for more information.

*Cross-listed to:* AK/HIST 3xxx 3.0.

**AK/HLST 3210 6.0 Health Services Management.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 3300 3.0 Health Management Information Systems I.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 3310 3.0 Health Management Information Systems II.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 3320 3.0 Introduction to Health Care Management.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 3340 3.0 Educational Strategies for Health Informatics.** Focuses on informatics strategies to develop institutional and community based education programs to communicate health care information in an online globalized community. Students will be required research and develop educational programs using internet tools.

*Cross-listed to:* AK/NURS 3220 3.0.

*Prerequisite:* AK/NURS 3200 3.0 or, for students with equivalent preparation, permission of the Director.

**AK/HLST 4000 3.0 Health Care Law.** Legislation relevant to health care; consent to treatment; cases of negligence; medical staff privileges; release of information.

*Cross-listed to:* AK/ADMS 4740 3.0.

*Prerequisites:* 1) For students in an Honours program, 72 credits including AK/ADMS 1000 3.0 and AK/ADMS 2300 6.0 or 6 credits in quantitative methods; or 2) Other students, 72 credits and an overall average grade of "B" or better.

*Note:* AK/ADMS 3610 3.0 *Elements of Law Part I* is recommended.

**AK/HLST 4010 3.0 Health Care Ethics.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 4100 6.0 Advanced Contemporary Health Policy.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 4110 3.0 Comparative Health Policy.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 4120 6.0 Advanced Public Policy Analysis.** An in-depth analysis of specific areas of public policy chosen to reflect current public debates. The primary focus is on Canada, but comparisons with other countries are made where useful to understanding the policy process in Canada.

*Cross-listed to:* AK/POLS 4200 6.0.

*Prerequisites:* 78 credits including AK/POLS 3410 6.0 or, for students with equivalent preparation, permission of the Coordinator of Political Science.

**AK/HLST 4200 6.0 Contemporary Health Management.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 4210 3.0 Health Care Leadership I.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 4220 3.0 Managerial and Leadership Competencies.** This course is specifically designed to give students a "hands-on" application of key managerial/leadership competencies. It allows students to assess and understand their own managerial strengths and weaknesses and to develop a more well rounded repertoire of skills.

*Cross-listed to:* AK/ADMS 4760 3.0 and AK/NURS 4740 3.0.

*Prerequisite:* AK/NURS 3770 3.0 or AK/ADMS 3440 3.0 or equivalents.

*Note:* Not open to students who have taken AK/ADMS 4130L 3.0 before Fall 2001 or who have taken AK/ADMS 4760 3.0 or AK/NURS 4740 3.0.

**AK/HLST 4300 6.0 Applied Health Informatics.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 4310 3.0 System Design and Analysis.** Please contact the Chair of the School of Health Policy and Management for more information.

**AK/HLST 4320 3.0 E-Business for Health Care.** Please contact the Chair of the School of Health Policy and Management for more information.

## History

### Office:

School of Arts and Letters  
Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

**AK/HIST 2100 3.0 (2100 6.0) Special Topics.** In any given session the School may offer one or more of the following courses under this rubric. Such courses reflect the desire of the School to offer new courses on themes and topics that are of interest to faculty and students.

**AK/HIST 2210 6.0 History of Canada.** The history of Canada from the peopling of the new world to the present. Students will be introduced to major themes in, and approaches to, Canadian history.

*Note:* Not open to students who have taken AK/HIST 2420 6.0.

**AK/HIST 2220 6.0 History of Women in Canada.** This course surveys the history of women in Canada from the beginning of European settlement to the present day. The course examines women's social, political, legal and economic issues and pays particular attention to Canada's cultural and regional diversity. (formerly AK/HIST 3000D 6.0)

**AK/HIST 2310 6.0 History of the United States.** A study of major developments in American history from earliest times to the present, with a balanced emphasis on economic, political, social and cultural factors. (formerly AK/HIST 2470 6.0)

**AK/HIST 2510 6.0 The Medieval World.** An examination of the significant developments in the history of Europe from the late Roman Empire to the Reformation. (formerly AK/HIST 2480 6.0)

**AK/HIST 2520 6.0 The History of Modern Europe.** A survey of modern European society and culture from the Thirty Years War to the late 20th century. (formerly AK/HIST 2400 6.0)

**AK/HIST 3100 6.0 Special Topics.** In any given session, the School uses this rubric to offer interested students greater curricular variety through topical and special-interest courses.

- A. The Making of the Modern Caribbean (formerly AK/HIST 3000A 6.0)
- B. Intellectual History of the West: From the Renaissance to the Present
- C. New France in the French Empire (Before 1763) (formerly AK/HIST 3000C 6.0)
- G. The Emergence of Modern Italy (formerly AK/HIST 3330Q 6.0)
- K. History of the Smaller European States in the Modern Era (formerly AK/HIST 3000K 6.0)
- M. The History of Toronto (formerly AK/HIST 3000M 6.0) (cross-listed to: AK/URST 3490 6.0)
- Q. Themes in African History (formerly AK/HIST 3000P 6.0)
- R. African-Canadian History (formerly AK/HIST 3000R 6.0) (cross-listed to: AK/CDNS 3110B 6.0)

**AK/HIST 3109 6.0 Related Topics.** Treatment of various topics which may not be covered in other courses. Topics vary from year to year.

- A. Europe in the 17th and 18th Centuries: Absolutism to Revolution (cross-listed to: GL/HIST 3280E 6.0)
- B. Asian Crossroads: Southeast Asia Since the 17th Century (cross-listed to: AS/HIST 3780 6.0)

**AK/HIST 3120 6.0 Historical Theory and Method.** The study of the nature of historical explanation employing case studies from historians and philosophers.

*Cross-listed to: AK/PHIL 3580 6.0.*

### **The Americas (includes all courses in Canadian, U.S. and Latin American history)**

**AK/HIST 3200 6.0 Social History of Women and The Family in Canada.** An exploration of the historical roles of women and the family in Canadian society. (formerly AK/HIST 3380 6.0)

*Note: Not open to students who have taken AK/CDNS 3380 6.0.*

**AK/HIST 3210 6.0 Italian-Canadian History.** An examination of Canada's fourth largest ethno-cultural group, from the early colonial period to the present, with emphasis on the changing nature of immigration and the evolution of the Italian community since the late 19th century. (formerly AK/HIST 3470 6.0)

*Note: Not open to students who have taken AK/CDNS 3060 6.0.*

**AK/HIST 3220 6.0 History of Ontario.** The social, economic and cultural development of Ontario from the 17th century to the present. Themes include native culture, social and political institutions, regional relations and cultural identities. (formerly AK/HIST 3530 6.0)

*Cross-listed to: GL/HIST 3210 6.0.*

**AK/HIST 3230 6.0 Quebec: Identity and Social Change.** An exploration of Quebec's social and cultural evolution. Attention will be given to the emergence of a distinct identity and nationalist thought.

**AK/HIST 3240 6.0 The Immigrant Experience in Canada.** This course examines government policy, public attitudes and the immigrant's life in Canada before and after World War II, as well as the refugee question and multiculturalism. (formerly AK/HIST 3710 6.0)

*Cross-listed to: AK/SOCI 3640I 6.0.*

*Note: Not open to students who have taken AK/CDNS 3050 6.0.*

**AK/HIST 3250 6.0 Canadian Working People.** A social and cultural study of Canada's working people from pre-industrial times to the present. This course deals with working class both at work and home, and examines how people responded to the challenges of technological change.

**AK/HIST 3260 6.0 Canada and the United States.** A study of selected aspects of the interrelationships between Canadian and American society, politics and culture. (formerly AK/HIST 3590 6.0)

**AK/HIST 3270 6.0 Early America.** An analysis of the development of American world views in the context of technological, economic, social and cultural change. (formerly AK/HIST 3550 6.0)

**AK/HIST 3280 6.0 Modern America.** An analysis of changing patterns in American world views from the Civil War to the present in the context of the interaction of technological, economic, social and cultural change. (formerly AK/HIST 3560 6.0)

**AK/HIST 3290 6.0 American Military Policy Since World War II.** An analysis of American military policy in an historical period of fundamental change in the theory and practice of warfare. The theory and institutionalization of such military strategies as nuclear deterrence, massive nuclear retaliation, limited nuclear war, limited conventional war, counter-insurgency and covert war will be analyzed in their technological, political, economic, cultural and historical contexts. (formerly AK/HIST 3510 6.0)

**AK/HIST 3300 6.0 Health and Canadian Society: Historical Perspectives.** An historical exploration of issues in the evolving relationship between attitudes toward health and health care on the one hand and the larger context of Canadian culture and society on the other. (formerly AK/HIST 3100N 6.0)

### **Europe**

**AK/HIST 3500 6.0 The Classical World.** A study of cultural, political and intellectual developments, as revealed by archaeological and artistic evidence and contemporary authors, with particular attention to Greece in the late bronze age, fifth century Athens and late republican and early imperial Rome. (formerly AK/HIST 3600 6.0 and AK/HIST 3740 6.0)

**AK/HIST 3510 6.0 Western Europe in the Middle Ages.** A discussion of the development of French/English/Scottish and Spanish/Portuguese societies in the period between the ninth and 15th centuries. (formerly AK/HIST 3370 6.0 and AK/HIST 3750 6.0)

**AK/HIST 3520 6.0 The Holy Roman Empire.** A discussion of Germany, Italy and Eastern Europe in the period between the fifth and the 15th centuries. (formerly AK/HIST 3670 6.0 and AK/HIST 3760 6.0)

**AK/HIST 3530 6.0 Byzantium and Islam.** A discussion of the institutional and cultural ideas of the Byzantine Empire and the Islamic World. (formerly AK/HIST 3490 6.0 and AK/HIST 3770 6.0)

**AK/HIST 3540 6.0 Issues and Themes in Medieval Culture.** A study of the intellectual, spiritual and artistic life of the Middle Ages. Areas of study include courtliness and chivalry, warfare, education, forms of spirituality, authority and dissent, the relation of faith and reason.

*Cross-listed to: AK/HUMA 3440 6.0.*

**AK/HIST 3550 6.0 Renaissance and Reformation.** How did inadequate education, greed, power struggles and rapid change produce Renaissance high culture? Was it a return to classical education, culture and institutions? A religious renewal? Or new social, political and economic patterns shaping the modern world? (formerly AK/HIST 3780 6.0)

*Cross-listed to:* AK/HUMA 3460 6.0.

*Note:* Not open to students who have taken AK/HUMA 3660 6.0 or AK/HIST 3410 6.0.

*Degree credit exclusion:* AK/HIST 3780 6.0.

**AK/HIST 3560 6.0 Women in Early European History.** This course examines the position of women in the political, social, economic, religious and intellectual environment of Europe from the first to the 17th century. (formerly AK/HIST 3800 6.0)

*Note:* Not open to students who have taken AK/HIST 3330M 6.0 or AK/HIST 3360 6.0.

**AK/HIST 3570 6.0 The Scientific Revolution, 1500-1800.** The origins of modern science and its cultural and intellectual milieu. (formerly AK/HIST 3810 6.0)

*Cross-listed to:* AK/STS 3760 6.0.

*Note:* Not open to students who have taken AK/STS 3650 6.0 or AK/HIST 3650 6.0 before Summer 1996.

**AK/HIST 3580 6.0 Early Modern Britain.** Examines changes in English society, economy and government following the Renaissance and Reformation. (formerly AK/HIST 3460 6.0 and AK/HIST 3820 6.0)

**AK/HIST 3590 6.0 Europe Since 1870.** An examination of political, economic and social developments in the leading states; the balance of power and World War I; democracy and totalitarianism between the wars; World War II and its aftermath. (formerly AK/HIST 3450 6.0 and AK/HIST 3830 6.0)

**AK/HIST 3600 6.0 Modern Britain.** Social, economic and political developments in British society in the modern era, with special attention to the processes of industrialization and urbanization. (formerly AK/HIST 3570 6.0 and AK/HIST 3840 6.0)

**AK/HIST 3610 6.0 History of Ireland.** A study of Ireland in its economic, demographic and social aspects as well as its religious, political and literary traditions. (formerly AK/HIST 3350 6.0 and AK/HIST 3850 6.0)

**AK/HIST 3620 6.0 Germany from Napoleon to the Present.** Beginning with Germany before unification in 1871, this course moves on to the German Empire, World War I, the Weimar and Hitler eras and concludes with the postwar period and the end of the east-west split in the 1990's. (formerly AK/HIST 3420 6.0 and AK/HIST 3860 6.0)

**AK/HIST 3630 6.0 The Holocaust.** An historical assessment of Nazi genocide of Jews and Gypsies and the persecution of other minorities. (formerly AK/HIST 3330N 6.0 and AK/HIST 3870 6.0)

**AK/HIST 3640 6.0 Modern France.** This course deals with relevant political, social, economic and intellectual developments in France from the Revolution to the present. (formerly AK/HIST 3430 6.0 and AK/HIST 3880 6.0)

**AK/HIST 3650 6.0 Modern Russian History.** Analysis of the political, social, economic and cultural themes of imperial, soviet and post-communist Russia. (formerly AK/HIST 3610 6.0 and AK/HIST 3890 6.0)

## Africa/Asia

**AK/HIST 3900 6.0 Modern International Relations Since 1870.** In this course we analyse, from both the theoretical and practical perspectives, international relations from the rise of Bismarck to the dissolution of the USSR. We consider, for example, the historical role of diplomacy, international organizations and international law. (formerly AK/HIST 3100P 6.0)

*Note:* There are no formal prerequisites but background courses on European, American, Third World and Canadian foreign policy would be helpful.

**AK/HIST 3910 6.0 Modern India.** A broad introduction to modern India from 1857 to the present. In particular, the course deals with developments in five major areas: society, religion, economy, politics and government. (formerly AK/HIST 3330P 6.0)

*Note:* Not open to students who have taken AK/HIST 3330N 3.0.

**AK/HIST 3920 6.0 The Modern Middle East.** A study of the modern history of the Middle East from the entry of Napoleon into Egypt to the close of World War II. (formerly AK/HIST 3520 6.0)

**AK/HIST 3930 6.0 Modern East Asia.** China and Japan from the mid-19th century. Emphasis will be on the conflict between the modernization process and tradition. (formerly AK/HIST 3310 6.0)

**AK/HIST 3940 6.0 Global Migration and Diaspora Cultures.** Migration and diaspora cultures examined in historical and comparative perspective, including patterns of forced displacement and migrant labour, and issues of citizenship, racism, religious and ethnic identity. Cases may include Jews, Africans, South and East Asians, Irish, Italians and Caribbean peoples.

*Cross-listed to:* AK/SOCI 3610 6.0.

*Note:* Not open to students who have taken or are taking AK/SOCI 3621 6.0.

## 4000-level Courses

**AK/HIST 4000 3.0 (4000 6.0) Directed Reading.** A reading and research course suited to students with special interests. Students will select areas of study in consultation with an appropriate professor. If interested, apply to the Coordinator of History.

*Prerequisites:* 78 credits and permission of the Coordinator of History.

*Note:* Students must be accepted by a faculty supervisor before they can register in 4000-level Directed Reading courses. The course transaction form for such a course must be submitted with a note from the supervisor stating his or her willingness to perform this task. Permission of the Coordinator is also required.

**AK/HIST 4100 3.0 (4100 6.0) Special Topics.** The instructors and subjects of these seminar courses vary from session to session.

- A. Church and Society in Victorian England (6.0)
- G. The American Novel as an Historical Document (6.0)
- M. Issues of Church, State and Society in Modern Germany (6.0)

*Prerequisites:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4109 6.0 Related Topics.** Treatment of various topics which may not be covered in other courses. Topics vary from year to year.

*Prerequisites:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4130 6.0 Themes in Women's History.** This seminar examines selected themes in the position and role of women in Western society as well as studies developments in the field of women's history.

*Prerequisite:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4200 6.0 Themes in Canadian Social and Cultural History.** This course focuses upon such themes as social change, the formation of new social and economic groups, and the development of social institutions and patterns of thought.

*Prerequisites:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4210 6.0 Research Seminar in North American Immigration and Ethnic History.** A research seminar on changing public attitudes, government policy and immigrants' social, economic and political life in North America from its origins to the present. The course critically examines the historiography of North American immigration and ethnic studies, and encourages comparative analysis. (formerly AK/HIST 4100K 6.0)

*Prerequisites:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4220 6.0 Patterns in Canadian and American Historical Thought.** This course is a cross-cultural and comparative analysis of American and Canadian historical thought from the late 19th century to the present. (formerly AK/HIST 4100J 6.0)

*Prerequisites:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4230 6.0 Canada since World War I.** The economic, social, political and cultural history of Canada in the years from 1929 to 1970. A major research paper is required.

*Cross-listed to:* GL/HIST 4210 6.0.

*Prerequisites:* GL/HIST 2670 6.0 or permission of the course director.

**AK/HIST 4510 6.0 Topics in Medieval History.** An intensive research into various topics relating to the European Middle Ages. (formerly AK/HIST 4020 6.0)

*Prerequisites:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4520 6.0 Themes in British History.** This seminar examines selected themes in British history. (formerly AK/HIST 4120A 6.0)

*Prerequisites:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4530 6.0 Renaissance and Reformation.** An intensive scrutiny of selected topics of European history between 1350 and 1650. (formerly AK/HIST 4170 6.0)

*Prerequisite:* 78 credits and permission of the Coordinator of History.

**AK/HIST 4540 6.0 The Third Reich: A Seminar on Hitler and the Nazis in Germany.** Roundtable discussions of the politics, society, economics and culture of Germany from 1933 to 1945. Main themes include the rise of the Nazi movement, the question of the Nazi 'revolution' and the Holocaust. There will also be a focus on recent historiographical debates.

*Prerequisites:* 78 credits including German or any other European history of the 19th and 20th centuries and permission of the Coordinator of History.

## Humanities

### Office:

School of Arts and Letters

Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

## General Education Courses

**GENERAL EDUCATION COURSES DO NOT FULFILL ELECTIVE REQUIREMENTS.**

**AK/HUMA 1700 6.0 Special Topics.** In any given year, a further number of courses may be offered. Information concerning these will be made available at the School in March.

**AK/HUMA 1709 6.0 Related Topics.** Treatment of related topics in Humanities.

**AK/HUMA 1710 6.0 The Roots of Western Culture. The Ancient World (ca. 1000 B.C.-400 A.D.).** Two historical cultures have had an important role in shaping modern thought: the Graeco-Roman and Judaeo-Christian. This course explores these cultures through selective study of their literature, philosophy and religious thought.

**AK/HUMA 1720 6.0 The Roots of Western Culture. The Modern Period (ca. 1500-1900).** Our modern conception of ourselves has evolved from issues debated particularly since the Reformation and Scientific Revolution. This course will explore these issues by drawing upon literature, art and social, religious, political and philosophical texts.

**AK/HUMA 1730 6.0 The Roots of Modern America.** An exploration of ideas, images and events which have created the culture of the United States using literature, art and social and political commentary.

**AK/HUMA 1740 6.0 The Roots of Modern Canada.** This course introduces the student to some of the main themes in the development of Canadian culture as they manifest themselves in Canadian history, literature, politics and fine arts. Canadian culture is studied, in large measure, as the working out of European and other traditions in the experience and consciousness of Canadians as peoples within a North American context.

**AK/HUMA 1740 6.0 Les racines du Canada de nos jours.** Ce cours présentera quelques-uns des thèmes principaux qui ont figuré dans le développement de la culture canadienne tels qu'ils se sont manifestés dans l'histoire, la littérature, la politique et les beaux arts du Canada. Les liens entre la culture canadienne-autochtone, canadienne-française, canadienne de langue anglaise, ou autre-vécus par les peuples du Canada dans le contexte nord-américain et son arrière-plan dans les cultures de l'Europe et de l'Amérique seront étudiées de près.

*N.B. : Ce cours sera donné en français, mais les lectures seront dans la langue d'origine des textes et les travaux et examens seront reçus soit en anglais soit en français.*

**AK/HUMA 1750 6.0 The Roots of Western Culture. The Contemporary Period (ca. 1900-present).** This course will explore from several perspectives some of the major themes and issues with which modern thought and literature have been concerned.

**AK/HUMA 1760 6.0 Freedom and The Individual.** This course examines from many perspectives the different conceptions of freedom that have emerged within the Western intellectual tradition, the various possibilities proposed for achieving political freedom in the contemporary world, and the debate concerning the extent to which people have choice.

**AK/HUMA 1790 6.0 Business, Tradition and Culture.** This course surveys Western attitudes toward money-making and business from the early Judaeo-Christian period to the present. In particular, it explores literary and philosophical ideas about capitalism, money and success, especially in the 19th and 20th centuries.

*Note: Not open to students who have taken AK/HUMA 1700 6.0.*

**AK/HUMA 1800 6.0 The Roots of Western Culture. The Middle Ages and Renaissance (ca. 400-1600 A.D.).** This course will explore from many perspectives the significant developments that occurred in the Middle Ages and Renaissance in politics, religion, art and literature. The course also will examine their continuing impact upon subsequent Western thought and literature.

**AK/HUMA 1830 6.0 Concepts of the "Male" and the "Female" in the Western Culture.** In this course various concepts of "male" and "female" are investigated as these are manifested in the arts and literature of a variety of cultures, past and present.

**AK/HUMA 1850 6.0 The Bible and Modern Contexts.** The course examines selected biblical texts, their social and historical contexts, and selected current issues such as the goddess, role of women in religion, social critique, sexual ethics, spirituality and biblical interpretation.

## Major/Elective Courses

Students concentrating on religion may wish to select 36 credits which will qualify them for the Religious Studies Certificate (see Certificate Requirements).

**AK/HUMA 2100 6.0 Art and Technology.** Combining theory and introductory studio components, the course surveys the invention and evolution of technologies of art practices in music, theatre, film and the visual arts from oil painting to the internet, from the drum to the digital synthesizer. How technologies change the relationship between art and its audiences and the relationship among the art disciplines themselves is a key thematic.

*Cross-listed to:* AK/FA 2100 6.0 and FA/INFA 2920D 6.0 Art and Technology.

*Prerequisite:* One general education course.

**AK/HUMA 2310 6.0 Concepts of Love.** An investigation of the implications of a word-symbol which, with varying emphases, has been at or near the centre of human consciousness (in terms of religious experience, sexual relationship and social ethics) from the dawn of civilization.

*Note:* Not open to students who have taken AK/HUMA 3780 6.0.

**AK/HUMA 2320 6.0 Texts and Contexts: Studies in Literature and Culture.** Examines major works of western literature from medieval to modern times in their historical and cultural context, while considering their contemporary relevance; explores how values, aspirations and fears of different cultures are reflected by authors such as Dante, Shakespeare, Ibsen, Kafka.

*Note:* Not open to students who have taken AK/HUMA 2720 6.0.

**AK/HUMA 2330 6.0 Myths and Their Meanings.** A cross-cultural study of myths according to theme and type: creation, fertility, resurrection and culture myths; gods and goddesses; heroes and tricksters. Material is drawn from a wide range of cultures and traditions.

*Note:* Not open to students who have taken AK/HUMA 3600 6.0.

**AK/HUMA 2600 3.0 (2600 6.0) Special Topics.** In any given year, a further number of courses may be offered. Information concerning these will be available at the School in March.

A. Science Fiction

**AK/HUMA 2605 6.0 Selected Topics.** Selected courses which are not a feature of the School's regular offerings may occasionally be given.

**AK/HUMA 2619 3.0 (2619 6.0) Related Topics.** In any given year a further number of courses may be offered.

A. Studies in Moral Themes and Values

**AK/HUMA 2700 3.0 (2700 6.0) Directed Reading.** Students will do extensive reading and writing in one or two selected areas, at the level appropriate to their preparation. Students wishing to enrol are to contact the Coordinator of Humanities.

**AK/HUMA 3300 6.0 Medea to Mother Courage: Tragedy in Western Literature.** A study of concepts of tragedy and tragic themes in literature from antiquity to the present, viewed in their cultural and historical contexts as well as in relation to their contemporary relevance. Readings by authors such as Aeschylus, Shakespeare, Ibsen, Chekhov, Pirandello, Brecht.

*Cross-listed to:* AK/EN 3835 6.0 (formerly AK/EN 3000L 6.0) and AK/FA 3300 6.0.

*Note:* Not open to students who have taken AK/HUMA 3740 6.0.

**AK/HUMA 3320 6.0 Satire, Utopias, and Society.** A survey and analysis of satirical and utopian literature, drama, art, music and film with special reference to the relationships among satire, morality and social comment. Material will be selected from European and North American sources from a variety of periods.

*Note:* Not open to students who have taken AK/HUMA 3800 6.0.

**AK/HUMA 3330 6.0 The Romance of the Round Table.** A comparative historical examination of the adventure-romances, epics and spiritual narratives written in Medieval Europe about King Arthur and the Round-Table knights. Areas of study include the use of imaginative literature to control attitudes about warfare, gender, politics, spiritual development.

**AK/HUMA 3340 6.0 Self and Society in the European Novel.** The modern novel grew with the rise of the middle class, capitalism, democracy and the break-down of such authorities as religion and the family. Explores how Balzac, Flaubert, Dickens, George Eliot, Dostoyevsky, Kafka and others respond to the revolutionary realities of their age.

*Cross-listed to:* AK/EN 3770 6.0 (formerly AK/EN 3315 6.0).

*Note:* Not open to students who have taken AK/HUMA 3940 6.0.

**AK/HUMA 3350 6.0 Nature in Narrative.** Analyzes how writers, artists and filmmakers in modern Western culture represent nature. Using cultural, historical and literary perspectives, it explores changing ideas and assumptions about nature, and how these ideas are expressed in scientific, narrative and pictorial forms.

**AK/HUMA 3360 6.0 Modern Women Writers.** An excursion into the rich field of writing by important 20th-century women authors, drawn from Italian, French, German and English-speaking cultures, explored from a comparative perspective. We will study the interaction of gender, class, culture, history and individual circumstance. (formerly AK/HUMA 3605D 6.0)

*Cross-listed to:* AK/EN 3848 6.0 (formerly AK/EN 3555 6.0).

**AK/HUMA 3370 3.0 Virginia Woolf.** Woolf developed new ways of representing human character and consciousness, time and memory and of understanding gender differences. Through readings in her fiction, essays and autobiographical writings we explore Woolf's crucial contributions to feminism and modernism.

*Cross-listed to:* AK/EN 3845 6.0 (formerly AK/EN 3591 3.0).

*Note:* Not open to students who have taken AK/HUMA 3620N 3.0.

**AK/HUMA 3380 6.0 Black Writers and Their Worlds.** This course primarily concerns itself with African-American and African-Canadian literature, both as it reflects these cultures and as it responds to the dominant cultures, their literary traditions and their racism.

*Cross-listed to:* AK/EN 3856 6.0 (formerly AK/EN 3000D 6.0).

**AK/HUMA 3390 3.0 (3390 6.0) Imaginative Representations of Italy.** Explores the variegated meanings of Italy - home of Roman Empire and Catholicism, birthplace of the Renaissance, locus of artistic richness, passion, drama, intrigue and corruption - as a place symbolically laden with moral, psychological and spiritual significance. Readings in fiction, travel literature, poetry, essays.

**AK/HUMA 3415 3.0 Interpreting the Old Testament, Part 1.** A historical and literary study of the biblical literature pertaining to the First Temple Period including the Exodus, Conquest, United and Divided Monarchy down to the time of the Babylonian Exile (Sixth century BCE).

*Note: May be taken independently of AK/HUMA 3417 3.0. Not open to students who have taken AK/HUMA 3410 6.0 or AK/HUMA 3950 6.0.*

**AK/HUMA 3417 3.0 Interpreting the Old Testament, Part 2.** A historical and literary study of biblical and related literature pertaining to the Second Temple Period, from the Babylonian Conquest (Sixth century BCE) through Reconstruction and Hellenism, to the Destruction of the Temple in 70 CE.

*Note: May be taken independently of AK/HUMA 3415 3.0. Not open to students who have taken AK/HUMA 3410 6.0 or AK/HUMA 3950 6.0.*

**AK/HUMA 3421 3.0 Interpreting the New Testament, Part 1.** A historical and literary study of the traditions of Paul and of the Beloved Disciple ("John") as they developed from the time of their founders through several generations of followers.

*Note: May be taken independently of AK/HUMA 3422 3.0. Not open to students who have taken AK/HUMA 3420 6.0.*

**AK/HUMA 3422 3.0 Interpreting the New Testament, Part 2.** A historical and literary study of the synoptic gospels (Mark, Matthew, Luke) and of other early Christian literature of the first three generations.

*Note: May be taken independently of AK/HUMA 3421 3.0. Not open to students who have taken AK/HUMA 3420 6.0.*

**AK/HUMA 3425 3.0 Dead Sea Scrolls.** The Dead Sea Scrolls provide an intriguing window into the development of early Christianity and rabbinic Judaism. This course examines the texts, the communities which produced them, contemporary movements within Judaism and Christianity, and the major lines of interpretive controversy.

*Note: Not open to students who have taken AK/HUMA 3610K 6.0.*

**AK/HUMA 3433 3.0 Exploring the Lands of the Bible, Part 1.** This Toronto-based course examines selected periods in Judaism and early Christianity through the interplay of text and archaeology. Topics include the United Monarchy and its self-understanding, interaction of Israelite and Canaanite cultures, Dead Sea Scrolls, early Christianities, Christian pilgrimage sites and monastic foundations.

**AK/HUMA 3434 3.0 Exploring the Lands of the Bible, Part 2.** Conducted in Israel/Egypt, this course examines selected biblical archaeological sites including ancient cities (e.g. Megiddo, Hazor, Beth Shean), historic sites (e.g. Jerusalem's Western Wall, City of David), early Christian sites (Bethlehem, Nazareth, Capernaum, Jerusalem), desert foundations (e.g. Mar Saba, Qumran, Negev), and Mount Sinai.

*Prerequisite:* AK/HUMA 3433 3.0.

**AK/HUMA 3435 3.0 (3435 6.0) Augustine.** A study of the life and seminal ideas of Augustine of Hippo. Setting his ideas in the context of his life story, the course explores his teaching on such themes as religion, education, philosophy, grace and free will, sexuality and politics.

*Note: Not open to students who have taken AK/HUMA 3605J 3.0.*

**AK/HUMA 3439 3.0 How the Irish Saved Western Civilization.** Examines the remarkable cultural achievements of the Irish, how they kept the lamps of learning, literature and material culture (manuscript, painting, ornamental metalwork) burning following the barbarian invasions of the fifth century and the decline of Roman civilization on the continent.

*Note: Not open to students who have taken AK/HUMA 3610B 3.0.*

**AK/HUMA 3440 6.0 Issues and Themes in Medieval Culture.** A study of the intellectual, spiritual and artistic life of the Middle Ages. Areas of study include courtliness and chivalry, warfare, education, forms of spirituality, authority and dissent, the relation of faith and reason.

*Cross-listed to:* AK/HIST 3540 6.0.

*Note: Not open to students who have taken AK/HUMA 3850 6.0.*

**AK/HUMA 3450 6.0 Philosophical Themes in Medieval Studies.** This course presents a selection of the problems and approaches found in the philosophy of representative thinkers of the medieval period. An examination of specific questions in metaphysics, epistemology or ethics are treated both systemically and historically.

*Cross-listed to:* AK/PHIL 3440 6.0.

*Note: Not open to students who have taken AK/HUMA 3610C 6.0.*

**AK/HUMA 3455 6.0 Cultures in Conflict.** Explores conflicting patterns of ideas about humanity, nature, divinity and history as expressed in selected texts from Biblical, Near-Eastern and Greek and Roman cultures. Varying textual interpretations and different interpretive methods are also examined.

*Note: Not open to students who have taken AK/HUMA 2740 6.0.*

**AK/HUMA 3457 3.0 (3457 6.0) Gnosticism.** Examines the early, radical alternative version of Christianity and Judaism based on mystical self-knowledge (gnosis), and the challenge it posed to orthodox views on such issues as authority, the role of women, wisdom, and organizational structure.

*Note: Not open to students who have taken AK/HUMA 3605N 3.0 [AK/HUMA 3605N 6.0] or AK/HUMA 3610M 3.0.*

**AK/HUMA 3458 3.0 The Making of Christianity and Christendom, Part 1.** The emergence of the Christian movement as a distinct and often counter-cultural religion with its own views and practices during the period of persecution, 100—318 CE.

*Note: Not open to students who have taken AK/HUMA 3880 6.0 or AK/HUMA 3430 6.0.*

**AK/HUMA 3459 3.0 The Making of Christianity and Christendom, Part 2.** The transformation of the Christian movement into a coherent religious, cultural, and social institution with defined positions on such matters as belief, leadership, doctrine, sex roles, education, and worship, many of which survive to this day.

*Note: Not open to students who have taken AK/HUMA 3880 6.0 or AK/HUMA 3430 6.0.*

**AK/HUMA 3460 6.0 Renaissance and Reformation: Brand New or New Again.** How did inadequate education, greed, power struggles and rapid change produce Renaissance high culture? Was it a return to classical education, culture and institutions? A religious renewal? Or new social, political and economic patterns shaping the modern world?

*Cross-listed to:* AK/HIST 3550 6.0.

*Degree credit exclusion:* AK/HIST 3780 6.0.

*Note: Not open to students who have taken AK/HUMA 3660 6.0 or AK/HIST 3410 6.0.*

**AK/HUMA 3470 6.0 The Development of Jewish Thought and Literature.** This course examines the development of Jewish thought and literature in its encounters with Greek culture, Christian and Islamic thought, the new sciences and the values of modernity.

*Note: Not open to students who have taken AK/HUMA 3960 6.0.*

**AK/HUMA 3480 6.0 Contemporary Religious Issues.** This course critically examines selected contemporary religious issues such as the challenge of feminism, nature of biblical authority, rise of fundamentalism, 20th century discoveries of other ancient texts, clash of world religions, nature religions and liberation theology.

*Note: Not open to students who have taken AK/HUMA 3760 6.0.*

**AK/HUMA 3490 6.0 Feminist Theology.** This course explores a wide range of issues which may include: a theological understanding of woman; a feminist perspective on theology; a holistic theological outlook; development of a non-patriarchal theological framework.

*Note: Not open to students who have completed AK/HUMA 3630 6.0.*

**AK/HUMA 3500 6.0 Science and Religion.** This course investigates the relationship between science and religion from the Scientific Revolution to the 20th century, as discussed by scientists, philosophers and theologians.

*Note: Not open to students who have taken AK/HUMA 3610H 6.0.*

**AK/HUMA 3510 6.0 Journeys of the Spirit.** A study of the quests of contemporary figures to find religious meaning in their lives.

**AK/HUMA 3520 6.0 The Thought and Religion of the Graeco-Roman World.** A study of Greek and Roman writings dealing with major religious issues: the existence of God, the nature of God, creation, the nature of humanity and the human soul, the good life, the prospects of immortality and the philosophy of history.

**AK/HUMA 3530 6.0 Greek and Roman Literature in Translation.** A study of representative works from the major and minor genres of Greek and Roman literature: epic, tragedy, comedy, satire, lyric poetry, romantic fiction, history, biography and the essay.

*Note: Not open to students who have taken AK/HUMA 3810 6.0.*

**AK/HUMA 3560 6.0 Images of Woman in Western Culture.** An historical and comparative exploration of ideas about women in the literary and visual materials of various periods and cultures; e.g. European, British and North American. Male images of women and the self-images produced by women are studied.

*Note: Not open to students who have taken AK/HUMA 3910 6.0.*

**AK/HUMA 3570 6.0 By and About Women.** This course studies the works of women writers and thinkers in their historical, cultural and comparative contexts. Readings may include women's literary, philosophical, educational, religious and scientific writing, as well as diaries and letters.

*Cross-listed to: AK/EN 3846 6.0 (formerly AK/EN 3100A 6.0).*

*Note: Not open to students who have taken AK/HUMA 3000 6.0.*

**AK/HUMA 3605 3.0 (3605 6.0) Selected Topics.** In any session, one or more of the following courses may be offered.

- A. de Beauvoir (formerly AK/HUMA 3620M 3.0)
- B. Gilman (formerly AK/HUMA 3620S 3.0)
- C. Female/Male Perspectives in Literature (cross-listed to: AK/EN 3996A 6.0) (formerly AK/EN 3000A 6.0)
- E. George Eliot (cross-listed to: AK/EN 3997E 3.0) (formerly AK/EN 3100Z 3.0)
- H. The Comic Mode in Western Literature (cross-listed to: AK/EN 3836 6.0) (formerly AK/EN 3000E 6.0)

J. Augustine (formerly AK/HUMA 3435 3.0)

K. Women's Writing in Early Modern England (cross-listed to: AK/EN 3346 6.0) (formerly AK/EN 3655 6.0)

L. Children's Literature (cross-listed to: AK/EN 3840 6.0) (formerly AK/EN 3000B 6.0)

M. Comparative Issues in Canadian and American Native Literature (cross-listed to: AK/EN 3858 6.0) (formerly AK/EN 3000J 6.0)

N. Gnosticism (formerly AK/HUMA 3610M 3.0)

P. Politics and Literature (cross-listed to: AK/EN 3966 6.0 (formerly AK/EN 3000H 6.0) and AK/POLS 3550 6.0) (formerly AK/HUMA 3590 6.0)

R. The Healing Fiction: Literature and Medicine (cross-listed to: AK/EN 3960 6.0) (formerly AK/EN 3100Z 6.0)

S. Literature of Ireland (cross-listed to: AK/EN 3863 6.0) (formerly AK/EN 3680 6.0)

**AK/HUMA 3610 3.0 (3610 6.0) Special Topics.** Special courses which are not a feature of the School's regular offerings may occasionally be given.

B. How the Irish Saved Western Civilization (3.0)

T. The Democratic Ideal in History and Literature (6.0)

**AK/HUMA 3640 6.0 Experiencing Canadian Culture.** An exploration of how a unique Canadian sensibility manifests itself in contemporary cultural forms. Students are required to attend contemporary plays, movies, readings, art shows and concerts to supplement reading materials.

*Note: Not open to students who have taken AK/CDNS 3640 6.0.*

**AK/HUMA 3650 6.0 Canadian Thought and Literature.** A study of Canada's national cultures in relation to the background of European and American thought and experience in an attempt to uncover the roots of the differences both real and perceived at the basis of the crisis of Confederation.

**AK/HUMA 3660 3.0 (3660 6.0) African-Canadian Voices.**

Examines the diversity of African-Canadian artistic production, literature in particular, but also film and visual art, seeking to develop theoretical and critical frameworks in which to situate contemporary work within Canadian, as well as the African Diasporic discourse.

**AK/HUMA 3670 3.0 (3670 6.0) Studies in African-American Art and Theatre: History and Memory.** Explores how certain African-American visual artist and dramatists interpret historical experience. Raises theoretical questions of representation, visualization, intertextuality, interdisciplinarity, and politics and the aesthetics of portrayal, focusing on the work of Romare Bearden, Jacob Lawrence, August Wilson, Adrienne Kennedy.

**AK/HUMA 3700 3.0 (3700 6.0) Directed Reading.** Students will do supervised reading and writing in one or two selected areas. Students wishing to enrol should contact the Coordinator of Humanities.

**AK/HUMA 3920 6.0 Watershed of Modern Culture: The 18th Century.** Many contemporary issues took their modern shape during the 18th century; e.g. our relationship to nature and science, women's education and tensions between the individual and society. This course studies Enlightenment and Romantic literature and ideas, and includes women writers.

**AK/HUMA 3930 6.0 19th-Century Thought and Literature.** This course studies selected 19th-century views of the human condition. Areas of study vary from year to year and may include: Romanticism, Realism, Liberalism, Industrialism, Marxism and the Crisis of Faith.



**AK/HUMA 3970 6.0 20th-Century Thought and Literature.** This course explores a selection of major themes and problems which writers of the 20th century have confronted in the attempt to express their views of humanity and its relation to the world.

**AK/HUMA 3980 6.0 Popular Culture in the 20th Century.** Surveys historical and contemporary approaches to the texts and contexts of fiction, film, television, music, folklore and fashion. Themes include the industrialization of culture; changing definitions of the popular; genre and gender; the politics of style; nature and other utopias.

*Cross-listed to:* AK/EN 3859 6.0 (formerly AK/EN 3000K 6.0).

*Note:* Not open to students who have taken AK/HUMA 3720 6.0 or AK/HUMA 3980 3.0.

**AK/HUMA 4605 6.0 Selected Topics.** Selected courses which are not a feature of the School's regular offerings may occasionally be given.

*Prerequisites:* 78 credits and permission of the Coordinator of Humanities.

**AK/HUMA 4610 6.0 Topics in Comparative Literature.** Critical approaches to and intensive reading of selected texts, which will vary from year to year. Topics may include the Golden Age, archetypal patterns and the City in literature.

*Prerequisites:* 78 credits and permission of the Coordinator of Humanities.

**AK/HUMA 4620 3.0 (4620 6.0) Special Topics.** In a particular session, special courses which are not a feature of the School's regular offerings may be given. The themes of particular courses will vary according to the fields of study of visiting and cross-appointed faculty.

- B. Defiance and Decorum: Women, Revolution and the 18th Century (6.0)

*Prerequisites:* 78 credits and permission of the Coordinator of Humanities.

*Note:* Not open to students who have taken AK/WMST 4010B 6.0.

**AK/HUMA 4630 6.0 Text in Interpretation.** Examines selected issues in the study of textual interpretation including selected interpretive controversies; the roles that the author, audiences and interpreter's perspective play; genre disputes; dating controversies; theories of meaning.

**AK/HUMA 4650 3.0 (4650 6.0) Research Seminar.** Provides students with the opportunity to pursue specialized research interests. The subject matter of the course varies from session to session.

- A. Women and Culture
- D. Advanced Study: Dead Sea Scrolls
- E. Advanced Studies in Religion (6.0)

*Prerequisites:* 78 credits and permission of the Coordinator of Humanities.

**AK/HUMA 4655 6.0 Advanced Biblical Studies.** Allows students the opportunity to pursue research projects in selected areas of Biblical studies including: Old Testament, Apocrypha, Pseudepigrapha, New Testament, Dead Sea Scrolls or Gnosticism

**AK/HUMA 4660 6.0 Advanced Religious Studies.** Allows students the opportunity to pursue research projects in selected areas of Religious Studies including contemporary issues/controversies or the development of themes/topics from ancient to modern times.

**AK/HUMA 4680 6.0 Honours Thesis.** In consultation with a faculty supervisor, students develop, research and write an undergraduate thesis.

*Note:* Students must be accepted by a faculty supervisor before they register in this course. The course transaction form for this course must be submitted with a note issued in the Program/School stating the willingness of the supervisor to perform this task. Students electing the Honours Thesis should take this course within their last two.

**AK/HUMA 4700 3.0 (4700 6.0) Directed Reading.** Students will do extensive reading and writing in one or two selected areas. Students wishing to enrol are to contact the Coordinator of Humanities.

*Prerequisites:* 78 credits, prior acceptance by a faculty supervisor, completion of the Directed Reading contract, and approval by the Coordinator of Humanities.

## Information Technology

### Office:

School of Analytic Studies and Information Technology  
Room 527 Atkinson, Tel: 416-736-5232, Fax: 416-736-5188

**AK/AS/ITEC 1010 3.0 Information and Organizations.** The value and importance of information to organizations, how it is used, stored and processed; emphasizes the uses of information technologies of various kinds, the benefits of the technologies and the associated costs and problems; use of desktop applications.

*Prerequisite:* None.

**AK/AS/ITEC 1011 3.0 Introduction to Information Technologies.** Hardware and software technology for handling information; system architecture for single user, central and networked systems; telecommunications; human computer interface; storage systems; operation systems; applications software.

*Prerequisite:* None.

*Note:* Students may not take this course for degree credit if they have taken or are taking any Computer Science course at the 2000-level or higher.

**AK/AS/ITEC 1020 3.0 Introduction to Computer Science I.** The main objective of the course is to introduce the student to problem solving using a procedural programming language. The course also covers the tools and techniques of an advanced interactive programming environment and simple data structures and algorithms. Three hour lectures, laboratory exercises.

*Prerequisites:* If no university-level mathematics: OAC Calculus and one other OAC in mathematics (normally Finite Mathematics or Algebra and Geometry) with an average grade of 75 percent in all OAC mathematics and no grade less than 65 percent; otherwise: at least 6 credits of university-level mathematics with a grade average over all MATH credits of C+ or better [B+ or better if it is a service course (second digit is 5)]. Recommended: Previous programming experience; for example, a high school programming course or AK/AS/SC/COSC 1530 3.0.

*Cross-listed to:* AK/AS/SC/COSC 1020 3.0.

**AK/AS/ITEC 1030 3.0 Introduction to Computer Science II.** The main objective of the course is to provide the student with a rudimentary understanding of algorithms and data structures. Three lecture hours, laboratory exercises.

*Prerequisites:* AS/SC/COSC/ITEC 1020 3.0 or AK/AS/ITEC 1020 3.0 or AK/COSC 2411 3.0.

*Cross-listed to:* AK/AS/SC/COSC 1030 3.0.

**AK/AS/ITEC 2010 3.0 Systems Analysis and Design I.** Case studies in the development of information systems; exposing the reasons for success or failure; IS planning; various IS development methodologies and their strengths and weaknesses; role of the analyst; analysis project.

*Prerequisites:* AK/AS/ITEC 1010 3.0 and AK/AS/ITEC 1011 3.0.

**AK/AS/ITEC 2011 3.0 Fundamentals of Data Structures.** A study of fundamental data structures and their use in the efficient implementation of algorithms. Topics include abstract data types, lists, stacks, queues, trees and graphs.

*Prerequisites:* AK/AS/ITEC 1030 3.0 or AK/AS/SC/COSC 1030 3.0 or AK/COSC 2412 3.0; AK/AS/SC/MATH 1190 3.0 or AK/AS/SC/MATH 1090 3.0; and a cumulative grade point average of at least 4.5 over all completed ITEC courses that are cross-listed with COSC.

*Cross-listed to:* AK/AS/SC/COSC 2011 3.0.

**AK/AS/ITEC 2021 3.0 Computer Organization.** Computer structures, digital representation of data, machine languages, instruction execution and addressing techniques. The major functional blocks of a computer: main memory, control unit, arithmetic and logic unit, input/output bus structures, interrupt system, DMA channels, peripheral devices.

*Prerequisites:* AK/AS/ITEC 1030 3.0 or AK/AS/SC/COSC 1030 3.0 or AK/COSC 2412 3.0; AK/AS/SC/MATH 1190 3.0 or AK/AS/SC/MATH 1090 3.0; and a cumulative grade point average of at least 4.5 over all completed ITEC courses that are cross-listed with COSC.

*Cross-listed to:* AK/AS/SC/COSC 2021 3.0.

**AK/AS/ITEC 3210 3.0 Applied Data Communications and Networks.** Communications systems, environments and components; choices for data, voice and imagery; network control, design and management; distributed and local networks; client/server and intranet technologies; Web based technologies.

*Prerequisites:* AK/AS/ITEC 2010 3.0; AK/AS/ITEC 1030 3.0 or AK/AS/SC/COSC 1030 3.0; AK/AS/SC/MATH 1131 3.0.

**AK/AS/ITEC 3421 3.0 Introduction to Database Systems.** Concepts, approaches and techniques in database management systems (DBMS). Logical model of relational databases. An introduction to relational database design. Other topics such as query languages, crash recovery and concurrency control.

*Cross-listed to:* AK/AS/SC/COSC 3421 3.0.

*Prerequisites:* AK/AS/ITEC 2011 3.0 or AK/AS/SC/COSC 2011 3.0 or AK/COSC 3501 3.0, and a grade point average of at least 4.5 over all completed ITEC courses that are cross-listed with COSC.

*Degree credit exclusions:* AS/SC/COSC 3412 3.0, AK/COSC 3503 3.0.

**AK/AS/SC/ITEC 3461 3.0 User Interfaces.** This course introduces user interfaces and the tools and mechanisms to create and prototype them. Students work in small groups and learn how to design user interfaces, how to realize them and how to evaluate the end result.

*Cross-listed to:* AK/AS/SC/COSC 3461 3.0.

*Prerequisites:* AK/AS/ITEC 2011 3.0 or AK/AS/SC/COSC 2011 3.0 or AK/AS/SC/COSC 2031 3.0 or AK/COSC 3501 3.0, and a grade point average of at least 4.5 over all completed ITEC courses that are cross-listed with COSC.

*Degree credit exclusions:* Not open to students who successfully completed AS/SC/COSC 4341 3.0 before Fall, 1999.

**AK/AS/SC/ITEC 4010 3.0 Systems Analysis and Design II.** Deals with intermediate and advanced topics in systems analysis and design. Topics include the systems development life cycle, object-

oriented design, CASE tools and recent advances in system analysis and design. The course involves a project component and computer use is required.

*Prerequisite:* AK/AS ITEC 2010 3.0.

*Prerequisite or corequisite:* AK/AS/ITEC 3421 3.0 or AK/AS/SC/COSC 3421 3.0 or AK/COSC 3503 3.0.

**AK/AS/SC/ITEC 4020 3.0 Internet Client-Server Systems.** Offers a thorough treatment of client-server systems concepts, with programming techniques that yield results in Web pages and Web-based applications. Topics include effective Web page design, server- and client-side scripting, Java servlets, ActiveX controls, and the essentials of electronic commerce.

*Prerequisites:* AK/AS/ITEC 3421 3.0 or AK/AS/SC/COSC 3421 3.0 or AK/COSC 3503 3.0; AK/AS/ITEC 3461 3.0 or AK/AS/SC/COSC 3461 3.0; and AK/AS/ITEC 3210 3.0 or AK/AS/SC/COSC 3212 3.0.

## Latin

### Office:

School of Arts and Letters

Room 625 Atkinson, Tel: 416-736-5900, Fax: 416-736-5766

A degree program including Latin courses is available under Classical Studies.

**AK/LA1400 6.0 Introductory Latin.** A course for students with little or no previous training in Latin. The course will cover the rudiments of Latin grammar and provide practice in the translation into English of sentences and short passages from Latin authors.

*Cross-listed to:* GL/HUMA 1850 6.0.

**AK/LA 2410 6.0 Intermediate Latin: Classical.** A course for students with some previous training in Latin. This course will provide an intensive review of Latin grammar and practice in the translation of selected Latin prose and poetry.

*Cross-listed to:* AS/LA 2000 6.0.

*Prerequisite:* AK/LA 1400 6.0 or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/LA 2430 6.0 Intermediate Latin: Mediaeval.** A course for students with some previous training in Latin. This course will provide a review of the grammar of classical Latin and an introduction to the Latin language of the mediaeval period, with practice in the translation of selected mediaeval Latin prose and poetry.

*Prerequisite:* AK/LA 1400 6.0 or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/LA 3400 6.0 Vergil.** Reading of selections from Vergil's *Aeneid*, *Georgics* and *Eclogues*.

*Cross-listed to:* AS/LA 3410 6.0.

*Prerequisite:* A 2000-level Latin course or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/LA 3410 6.0 Latin Love Poetry.** Selections from the works of Catullus, Propertius, Ovid and selected writers of late antiquity.

*Cross-listed to:* AS/LA 3030 6.0.

*Prerequisite:* A 2000-level Latin course or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/LA 3420 3.0 (3420 6.0) Special Topics.** In a given year an additional course on a particular author or authors may be offered to meet needs of students.

*Prerequisite:* A 2000-level Latin course or, for students with equivalent preparation, the permission of the Coordinator of Classical Studies.

**AK/LA 3440 6.0 Roman Drama.** Selections from the comedies of Plautus and Terence and the tragedies of Seneca.

*Prerequisite:* A 2000-level Latin course or permission of the Coordinator of Classical Studies.

**AK/LA 4000 3.0 (4000 6.0) Reading in Latin Authors.** An independent reading course with material chosen according to the interest of the student.

*Prerequisites:* 78 credits or, for students with equivalent preparation, the permission of the Coordinator of Classical Studies.

*Note:* Students must be accepted by a faculty supervisor before they can register in a 4000-level reading course. The course transaction form for such a course must be submitted with a note from the supervisor stating his/her willingness to perform this task. Permission of the Program Coordinator is also required.

**AK/LA 4010 3.0 (4010 6.0) Seminar in Patristic and Mediaeval Latin.** Topics may include the theological and philosophical writings of the Latin Fathers, mediaeval historical and legal documents, mediaeval Latin poetry, inter alia.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

**AK/LA 4020 3.0 Vulgar Latin.** An introduction to the study of the Latin of everyday life in the Roman Empire and its relation to the formation of the Romance languages.

*Prerequisites:* 78 credits or, for students with equivalent preparation, permission of the Coordinator of Classical Studies.

## Mathematics

### Office:

School of Analytic Studies and Information Technology  
Room 527 Atkinson, Tel: 416-736-5232, Fax: 416-736-5188

## General Education Courses

Mathematics General Education courses are suitable for all students regardless of mathematical background. The emphasis in these courses is on ideas and their cultural implications. The exception is AK/MATH 1710 6.0 where a preliminary knowledge of elementary algebra is necessary. The focus of AK/MATH 1710 6.0 is on mastering the skills and knowledge essential for in-depth work in any of the mathematically related disciplines; administrative studies, computer science, economics or natural science.

*Note:* Mathematics courses listed in the Major/Elective section of the Calendar do not fulfill the MATH/MODR General Education requirements.

**AK/MATH 1700 6.0 The Nature and Growth of Ideas in Mathematics.** Students are shown the central position of mathematics in our culture: great discoveries in mathematics and their effect on general culture and society; history of mathematics; mathematics of art and architecture, sound, games and gambling, and computing.

**AK/MATH 1710 6.0 Fundamentals of Mathematics.** A course of consolidation, review and enrichment of basic mathematical principles and techniques. Topics to be covered include: algebraic equations and inequalities, analytic geometry, trigonometry, elements of finite mathematics and an introduction to calculus.

*Note 1:* To register in this course students must have first either passed a prerequisite test in Ontario Grade 12 advanced-level mathematics, or have successfully completed, with at least a grade of B, the Continuing Education course CEP3910, Mathematics. An information sheet describing both the continuing education course and the prerequisite test is available from Student and Academic Services, 123 Atkinson and the School.

*Note 2:* This course is not open to students having taken any higher level mathematics course. In particular it is not open to any students having taken an Arts or Science Math course whose first two digits are 15.

*Note 3:* Equivalent of AK/MATH 1710 6.0: Students who have successfully completed all three Ontario OAC mathematics credits in the last two years are considered to have the equivalent of AK/MATH 1710 6.0. Students who have not done so but who believe they may have the equivalent of AK/MATH 1710 6.0 may write an exemption test. Details are available through the School.

*Note 4:* All students whether newly admitted or transfer students who have completed a 6 credit university-level Mathematics course are excused from taking MATH 1710 6.0 and are required to take a Modes of Reasoning General Education course in order to fulfill the General Education requirement. The Mathematics credit is to be granted as either a major or elective course.

**AK/MATH 1720 6.0 Statistics and Reasoning.** This course will attempt to provide some insight into the nature, scope and limitations of statistical analysis in modern society. The questions to be studied are: What types of observation or measurement exist and what approaches are used to summarize and analyze the data thus generated? Are statistics value-free? How do inductive and deductive reasoning enter into the statistical process? Examples such as the consumer price index, opinion polls, lotteries etc., may be discussed.

*Note:* Not open to students who have taken or are taking AK/MATH 2560 3.0, or who have received advanced standing for the equivalent.

**AK/MATH 1730 6.0 Mathematics and Cosmology.** Many of the great systems of knowledge (scientific, religious or philosophic) have used the language of mathematics to express understanding of the universe. The role of mathematics will be examined in various systems. These will include: the I-Ching, legends of ancient Egypt, the Quaballa, astrology, Pythagorean mysticism, Greek philosophy and modern physics. This course is suitable to all students regardless of mathematical background.

**AK/MATH 1740 6.0 Personal Computers and Mathematics.** An introduction to personal computers, their uses and their impact on society. Relationships between mathematics and computers will be explored. Number systems, mathematical problem solving and game theory. Discussion of computer-generated graphics and music, simulation and robotics, prospects for artificial intelligence. No mathematical background or programming knowledge required.

## Major/Elective Courses

*Note:* For all Mathematics courses that are cross-listed with the Faculties of Arts, Pure and Applied Science, please consult the York University Calendar for alternative prerequisites and additional exclusions.

**AK/AS/SC/MATH 1021 3.0 Linear Algebra I.** Linear equations, matrices, Gaussian elimination, determinants and vector spaces. This course covers material similar to that in AK/AS/SC/MATH 2221 3.0 but at a more advanced level. Required in Specialized Honours Statistics and in all Applied Mathematics, Mathematics and Mathematics for Commerce programs except the BA Program in Mathematics for Commerce. (formerly AS/SC/MATH 2021 3.0 - before 2001-2002)

*Prerequisite:* One OAC mathematics course or equivalent.

*Degree credit exclusions:* AS/SC/MATH 1025 3.0, AS/SC/MATH 2021 3.0, AK/AS/SC/MATH 2221 3.0.

**AK/AS/SC/MATH 1090 3.0 Introduction to Logic for Computer Science.** The syntax and semantics of propositional and predicate logic. Applications to program specification and verification. Optional topics include set theory and induction using the formal logical language of the first part of the course.

*Prerequisite:* One OAC in mathematics or equivalent or AK/MATH 1710 6.0.

*Degree credit exclusion:* This course may not be taken for degree credit by any student who has passed AK/AS/SC/MATH 4290 3.0.

**AK/AS/SC/MATH 1131 3.0 Introduction to Statistics I.** Displaying and describing distributions; relations in categorical data; Simpson's paradox and the need for design; experimental design and sampling design; randomization; probability laws and models; central limit theorem; statistical inference including confidence intervals and tests of significance; matched pairs; simulation.

*Prerequisite:* At least one OAC in mathematics is recommended.

*Degree credit exclusions:* AK/AS/SC/MATH 2500 3.0, AK/AS/SC/MATH 2560 3.0, SC/BIOL 2060 3.0, SC/BIOL 3080 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/SC/GEOG 2420 3.0, AS/SC/KINE 2050 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AK/PSYC 2510 3.0, AS/SOCI 3030 6.0, ES/ENVS 2010 3.0, ES/ENVS 2010 6.0. Not open to any student who has successfully completed AS/SC/MATH 2030 6.0.

**AK/AS/SC/MATH 1190 3.0 Introduction to Sets and Logic.** Sets, functions, relations, induction, proof techniques, logic and logic circuits, basic combinatorics and some basic graph theory.

*Prerequisite:* One OAC in mathematics or equivalent or AK/MATH 1710 6.0.

*Degree credit exclusions:* AK/AS/SC/MATH 1090 3.0, AS/SC/MATH 1120 3.0, or any 3000- or higher-level MATH course.

*Note:* Students who plan to major or minor in Computer Science must take AK/AS/SC/MATH 1090 3.0 instead of this course.

**AK/MATH 1200 3.0 (1200 6.0) Special Topics in Mathematics.** Treatment of various topics which may not be covered in other courses. Topics vary from year to year.

**AK/AS/SC/MATH 1300 3.0 Differential Calculus with Applications.** Limits, derivatives with applications, anti derivatives, fundamental theorem of calculus, beginnings of integral calculus.

*Prerequisite:* AK/MATH 1710 6.0 or equivalent.

*Degree credit exclusions:* AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AS/SC/MATH 1505 6.0, AS/MATH 1530 3.0, AK/AS/MATH 1550 6.0, SC/ACMS 1030 6.0, SC/ACMS 1050 6.0, AS/ECON 1530 3.0.

*Note:* Not open to students who have taken AK/MATH 1420 3.0, AK/MATH 1430 3.0, AK/MATH 1410 6.0 or equivalent.

**AK/AS/SC/MATH 1310 3.0 Integral Calculus with Applications.** Transcendental functions, differential equations, techniques of integration, improper integrals, infinite series, Taylor's formula.

*Prerequisite:* AK/AS/SC/MATH 1300 3.0 or equivalent.

*Degree credit exclusions:* AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AS/SC/MATH 1505 6.0, SC/ACMS 1030 6.0, SC/ACMS 1050 6.0.

*Note:* Not open to students who have taken AK/MATH 1430 3.0 or AK/MATH 1410 6.0.

**AK/MATH 1409 3.0 (1409 6.0) Related Topics in Mathematics.** Treatment of various topics in elementary mathematics.

**AK/AS/MATH 1550 6.0 Mathematics with Management Applications.** Entry course to the Mathematics for Commerce bachelor degree program. It includes differential and integral calculus, matrix algebra and elements of optimization with applications to management.

*Prerequisite:* One OAC mathematics or AK/MATH 1710 6.0 or equivalent.

*Degree credit exclusions:* AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AK/AS/SC/MATH 1300 3.0, AS/SC/MATH 1505 6.0, AS/MATH 1530 3.0, AS/MATH 1540 3.0, SC/ACMS 1030 6.0, SC/ACMS 1050 6.0, AS/ECON 1530 3.0, AS/ECON 1540 3.0. This course may not be taken by any student who has taken or is taking AK/AS/SC/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/MATH 2000 6.0 or AS/SC/MATH 2021 3.0 or AK/AS/SC/MATH 2221 3.0 or equivalent.

*Note 1:* This course is not open to students who have taken AK/MATH 1410 6.0, AK/MATH 1300 3.0, AK/MATH 1420 3.0, AK/MATH 2221 3.0, AK/MATH 2220 6.0 or equivalents.

*Note 2:* This course may only be used for major degree credit in the Mathematics for Commerce degree program. In all other (Atkinson) Mathematics degree programs it counts as an elective only.

**AK/AS/SC/MATH 2022 3.0 Linear Algebra II.** Inner product spaces, linear transformations, eigenvalues, diagonalization, least squares, quadratic forms and Markov chains. Similar to AK/AS/SC/MATH 2222 3.0 but at a more advanced level. Required in Specialized Honours Applied Mathematics, Specialized Honours Statistics and in all Mathematics and Mathematics for Commerce programs except the BA Program in Mathematics for Commerce.

*Prerequisite:* AS/SC/MATH 1021 3.0 or AS/SC/MATH 2021 3.0 or permission of the course coordinator.

*Degree credit exclusion:* AK/AS/SC/MATH 2222 3.0.

**AK/AS/SC/MATH 2030 3.0 Elementary Probability.** Introduction to the theory of probability as preparation for further study in either mathematical or applied probability and statistics. Topics include probability spaces, conditional probability, independence, random variables, distribution functions, expectation, Chebyshev's inequality, common distributions, moment-generating functions and limit theorems.

*Prerequisite:* AK/AS/SC/MATH 1310 3.0.

*Degree credit exclusion:* AS/SC/MATH 2030 6.0.

*Note:* Not open to students who have completed AK/MATH 2430 6.0 or equivalent.

**AK/AS/SC/MATH 2090 3.0 Applications of Logic to Discrete Mathematics.** A continuation of AK/AS/SC/MATH 1090 3.0, this course uses formal logic to study topics in discrete mathematics, including sets, relations, functions, induction, the integers. Optional topics include program specification, sequences, recurrence relations.

*Prerequisite:* AK/AS/SC/MATH 1090 3.0 taken after Summer 1998.

**AK/AS/SC/MATH 2131 3.0 Introduction to Statistics II.** This course is a continuation of AK/AS/SC/MATH 2030 3.0. This course provides students with an introduction to statistical methods with an emphasis on applications using continuous probability models.

*Prerequisites:* AK/AS/SC/MATH 2030 3.0; one of AS/SC/MATH 2010 3.0, AS/SC/MATH 2015 3.0, AK/AS/SC/MATH 2310 3.0.

*Degree credit exclusion:* Not open to any student who has passed or is taking AK/AS/SC/MATH 3131 3.0.

*Note:* Computer/Internet use may be required to facilitate course work.

**AK/MATH 2200 3.0 (2200 6.0) Special Topics in Mathematics.** Treatment of various topics which may not be covered in other courses. Topics vary from year to year.

**AK/MATH 2209 3.0 (2209 6.0) Related Topics in Mathematics.** Treatment of various topics in elementary mathematics.

**AK/AS/SC/MATH 2221 3.0 Linear Algebra with Applications I.** Systems of linear equations, linear and affine subspaces of  $R^n$ , the Gauss-Jordan algorithm, matrices and matrix algebra, determinants, vector space concepts for  $R^n$  (linear dependence and independence, bases, dimension etc.), various applications.

*Prerequisite:* AK/MATH 1710 6.0 or OAC algebra or any university mathematics course.

*Degree credit exclusions:* AK/AS/SC MATH 1021 3.0, AS/SC/MATH 1025 3.0, AS/SC/MATH 2021 3.0, SC/ACMS 1020 6.0.

*Note:* Not open to students who have completed AK/MATH 2220 6.0.

**AK/AS/SC/MATH 2222 3.0 Linear Algebra with Applications II.** Linear transformations and their representation by matrices, change of basis and similarity, eigenvalues and eigenvectors, diagonalization, inner product spaces, orthogonality, the Gram-Schmidt algorithm, least squares approximations, abstract vector spaces, various applications.

*Prerequisite:* AK/AS/SC/MATH 2221 3.0 or AK/AS/SC/MATH 1021 3.0.

*Degree credit exclusion:* AS/SC/MATH 2022 3.0.

*Note:* Not open to students who have completed AK/MATH 2220 6.0.

**AK/AS/SC/MATH 2270 3.0 Differential Equations.** Introduction to differential equations, including a discussion of the formation of mathematical models for real phenomena; solution by special techniques; applications; linear equations; solutions in series; other topics if time permits.

*Prerequisites:* AK/AS/SC/MATH 2310 3.0 or equivalent; AK/AS/SC/MATH 2221 3.0 or AK/AS/SC/MATH 1021 3.0 or equivalent.

**AK/AS/SC/MATH 2310 3.0 Calculus of Several Variables With Applications.** Vector functions, partial derivatives, gradient, multiple integrals, line integrals, optimization, applications.

*Prerequisites:* AK/AS/SC/MATH 1310 3.0 or equivalent and knowledge of vector geometry and vector algebra in two and three dimensions.

*Degree credit exclusions:* AS/SC/MATH 2010 3.0, AS/SC/MATH 2015 3.0.

**AK/AS/SC/MATH 2320 3.0 Discrete Mathematical Structures.** Algebraic and combinatorial structures required in Computer Science and other disciplines. Review of sets; induction; combinatorics; graph theory, trees; big Oh-notation, complexity of algorithms; recursive definitions, recurrence relations; posets; congruence relations. This course emphasizes analysis, problem solving, and proofs.

*Prerequisites:* AK/AS/SC/MATH 1190 3.0 or AK/AS/SC/MATH 1090 3.0 or AK/MATH 2441 3.0 or any 2000-level MATH course without second digit 5. Students who have not taken AK/AS/SC/MATH 1190 3.0 or AK/AS/SC/MATH 2090 3.0 are advised to review set theory, functions, relations and induction proofs, before the course begins.

**AK/AS/SC/MATH 2500 3.0 An Introduction to the Basic Practice of Statistics.** This course provides an introduction to the concepts of statistics with an emphasis on developing a critical attitude towards the use and misuse of statistics in business, health sciences and other areas.

*Degree credit exclusions:* AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AS/SC/PSYC 2022 3.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/ECON 3500 3.0, AS/SC/GEOG 2420 3.0,

AS/SC/GEOG 3421 3.0, AS/SC/KINE 2050 3.0, AS/SC/KINE 3150 3.0, AK/AS/SC/MATH 1131 3.0, AS/SC/MATH 1132 3.0, AK/AS/SC/MATH 2500 3.0, AK/AS/SC/MATH 2560 3.0, AK/AS/SC/MATH 2570 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SOCI 3030 6.0. Not open to any student who has successfully completed AS/SC/MATH 2030 6.0. May not be taken by students who have taken or are taking any university course in statistics.

*Note:* Computer/Internet use may be required to facilitate course work.

**AK/AS/SC/MATH 2560 3.0 Elementary Statistics I.** Displaying and describing distributions, normal distribution. Relationships between variables, regression and correlation. The need for design, experimental design and sampling design. Sampling distributions, bias, variability. Probability models, random variables, probability laws.

*Prerequisite:* AK/MATH 1710 6.0 or Ontario Grade 12 Advanced Mathematics.

*Degree credit exclusions:* AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/SC/GEOG 2420 3.0, AS/SC/KINE 2050 3.0, AK/AS/SC/MATH 1131 3.0, AK/AS/SC/MATH 2500 3.0, AK/AS/SC/MATH 2560 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SOCI 3030 6.0. Not open to any student who has successfully completed AS/SC/MATH 2030 6.0.

*Note:* Not open to students who have completed AK/MATH 2430 6.0 or AK/BIOL 3080 6.0.

**AK/AS/SC/MATH 2570 3.0 Elementary Statistics II.** Binomial distribution, sampling distribution of sample proportions and means, central limit theorem. Confidence intervals, tests and decisions, abuse of tests. Inference for a single mean, comparing two means, and for spread. Contingency tables. Simple regression and basic analysis of variance.

*Prerequisite:* AK/AS/SC/MATH 2560 3.0 or AK/AS/SC/MATH 1131 3.0.

*Degree credit exclusions:* AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2022 3.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 3210 3.0, AS/ECON 3500 3.0, AS/SC/GEOG 2420 3.0, AS/SC/KINE 3150 3.0, AS/SC/MATH 1132 3.0, AK/AS/SC/MATH 2500 3.0, AK/AS/SC/MATH 2570 3.0, AS/POLS 3300 6.0, AS/SOCI 3030 6.0. Not open to any student who has successfully completed AS/SC/MATH 2030 6.0.

*Note:* Not open to students who have completed AK/MATH 2430 6.0 or AK/BIOL 3080 6.0.

**AK/AS/MATH 2580 6.0 Mathematics of Investment and Actuarial Science.** Theory of interest; annuities certain; amortization and sinking funds; evaluation of bonds and other investments; depreciation, depletion and capital cost; insurance; including mortality tables, principles of life annuities, premiums and reserves.

*Prerequisite:* One full mathematics course.

*Degree credit exclusions:* AS/MATH 1581 3.0, AS/SC/MATH 2280 3.0, AS/MATH 2581 3.0.

*Note 1:* This course is not open to students who have taken AK/MATH 2209B 6.0, AS/SC/MATH 3280 6.0.

*Note 2:* This course only be used for major credit in the Mathematics for Commerce degree program. In all other (Atkinson) Mathematics degree programs it counts as an Elective only.

**AK/MATH 2720 3.0 Quantitative Methods I.** An introductory treatment of topics in probability and statistical inference. Conditional probability and independence, random variables, distributions, estimation, hypothesis testing and regression.

*Cross-listed to:* AK/ADMS 3320 3.0.

*Prerequisite:* AK/MATH 1710 6.0 or equivalent.

*Note: This course is not open to students who have taken AK/MATH 2430 6.0, AK/MATH 3100 6.0 or equivalent and is not open to Mathematics majors.*

**AK/MATH 2730 3.0 Quantitative Methods II.** An introduction to techniques of decision theory, and linear algebra and linear programming, and modelling, necessary for further work in management and social sciences.

*Cross-listed to:* AK/ADMS 3330 3.0.

*Prerequisite:* AK/MATH 1710 6.0 or equivalent.

*Note: This course is not open to students who have taken AK/MATH 1410 6.0, AK/AS/SC/MATH 1310 3.0, AK/MATH 3100 6.0, AK/MATH 3120 3.0 or equivalent and is not open to Mathematics majors.*

**AK/MATH 2750 3.0 Bayesian Inference and Decision.** This course takes a quantitative approach to decision making, including a coverage of Bayesian inference, decision theory, prior, posterior and preposterior analysis, using discrete and continuous distributions. Emphasis is given to the understanding of concepts and the use and application to administration.

*Prerequisite:* AK/MATH 2720 3.0 or AK/ECON 3470 3.0 or AK/AS/SC/MATH 2560 3.0 or, for students with equivalent preparation, permission of the Coordinator of Mathematics.

*Note 1: This course counts as an elective in a Mathematics major.*

*Note 2: Not open to students who have taken AK/ADMS 3350 3.0 or AK/ECON 3110 3.0.*

**AK/MATH 2751 3.0 Managerial Operations Research.** Introductory treatment of operations research topics and applications to functional areas in administration. This includes linear programming, formulation, graphical solutions, simplex solutions, sensitivity analysis, duality and computer solutions; assignment/transportation problems, integer programming, network models, dynamic programming and computer simulation.

*Prerequisite:* AK/MATH 2720 3.0 or AK/ECON 3470 3.0 or, for students with equivalent preparation, permission of the Coordinator of Mathematics.

*Note 1: This course counts as an elective in a Mathematics major.*

*Note 2: This course is not open to students who have taken AK/AS/SC/MATH 3170 6.0, AK/MATH 3490 6.0, AK/ADMS 3351 3.0 or AK/ECON 3120 3.0.*

**AK/MATH 2752 3.0 Sampling Techniques and Survey Design.** This course deals with: different sampling techniques and their applications to management problems, survey design, pilot surveys, use of focus groups, in-person interviews, mail surveys and polling.

*Prerequisite:* AK/MATH 2720 3.0 or AK/ECON 3470 3.0 or, for students with equivalent preparation, permission of the Coordinator of Mathematics.

*Note 1: This course counts as an elective in a Mathematics major.*

*Note 2: Not open to students who have taken AK/ADMS 3352 3.0 or AK/ECON 3130 3.0.*

**AK/AS/SC/MATH 3010 3.0 Vector Integral Calculus.** Integrability of continuous functions over suitable domains, iterated integrals and Fubini's theorem, counterexamples, change of variables, Jacobian determinants, polar and spherical coordinates, volumes, vector fields, divergence, curl, line and surface integrals, Green's and Stokes' theorems, differential forms, general Stokes' theorem.

*Prerequisite:* AK/AS/SC/MATH 2310 3.0 or equivalent.

*Prerequisite or corequisite:* AK/AS/SC/MATH 2022 3.0 or AK/AS/SC/MATH 2222 3.0.

*Note: Not open to students who have taken AK/MATH 3310 3.0.*

**AK/AS/SC/MATH 3020 6.0 Algebra I.** Introduction to the basic concepts of abstract algebra, with applications: groups (cyclic, symmetric, Lagrange's theorem, quotients, homomorphism theorems); rings (congruences, quotients, polynomials, integral domains, principal-ideal and unique-factorization domains); fields (field extensions, constructions with ruler and compasses, coding theory).

*Prerequisite:* AK/AS/SC/MATH 2022 3.0 or AK/AS/SC/MATH 2222 3.0 or equivalent.

**AK/AS/SC/MATH 3034 3.0 Applied Categorical Data Analysis.** Regression using categorical explanatory variables, one-way and two-way analysis of variance. Categorical response data, two-way and three-way contingency tables, odds ratios, tests of independence, partial association. Generalized linear models. Logistic regression. Loglinear models for contingency tables.

*Prerequisite:* AS/SC/MATH 3033 3.0 or AK/AS/SC/MATH 3330 3.0.

*Degree credit exclusions:* Not open to any student who has passed or is taking AS/SC/MATH 4130G 3.0.

*Note: Computer/Internet use may be required to facilitate course work.*

**AK/AS/SC/MATH 3050 6.0 Introduction to Geometries.** Analytic geometry over a field with vector and barycentric coordinate methods, affine and projective transformation's, inversive geometry, foundations of Euclidean and non-Euclidean geometry, applications throughout to Euclidean geometry.

*Prerequisite:* AK/AS/SC/MATH 2022 3.0 or AK/AS/SC/MATH 2222 3.0 or equivalent.

**AK/AS/SC/MATH 3110 3.0 Introduction to Mathematical Analysis.** Proofs in calculus and analysis. Topics include sets, functions, axioms for  $\mathbb{R}$ , applications of the completeness axiom, countability, sequences and their limits, monotone sequences, limits of functions, continuity.

*Prerequisite:* AK/AS/SC/MATH 1310 3.0.

*Prerequisites or corequisites:* AK/AS/SC/MATH 2310 3.0 or AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 1021 3.0 (formerly AS/SC/MATH 2021 3.0) or AK/AS/SC/MATH 2221 3.0 or AS/SC/MATH 1025 3.0.

*Degree credit exclusion:* AS/SC/MATH 1010 3.0.

**AK/AS/SC/MATH 3131 3.0 Mathematical Statistics I.** Topics include common density functions, probability functions, principle of likelihood, the likelihood function, the method of maximum likelihood, likelihood regions, tests of hypothesis, likelihood ratio tests, goodness of fit tests, conditional tests and confidence sets with a view toward applications.

*Prerequisite:* AK/AS/SC/MATH 2131 3.0 or permission of Coordinator of Mathematics.

*Note: Not open to students who have completed AK/AS/SC/MATH 3030 3.0.*

**AK/AS/SC/MATH 3132 3.0 Mathematical Statistics II.** Important examples and methods of statistical estimation and hypothesis testing are discussed in terms of their mathematical and statistical properties. Topics include sufficiency, Bayesian statistics, decision theory most powerful tests, likelihood ratio tests.

*Prerequisite:* AK/AS/SC/MATH 3131 3.0.

*Note: Not open to students who have taken AK/MATH 3530 6.0.*