

XII. Courses of Instruction

Administrative Studies

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 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. Coverage accounting history, the uses of accounting information in personal and business contexts and the rudiments of financial reporting.

Note 1: AK/ADMS 1000 3.0 is not a prerequisite for AK/ADMS 2500 3.0, but is strongly recommended.

Note 2: Requires access to a personal computer that runs Windows 95+, with multimedia 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.

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 six credits in management science 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 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: Not open to students who have taken AK/ADMS 3130G 3.0, AK/ADMS 4120 3.0.

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)
- R. Financial Statement Analysis (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 departmental management science 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 analysis 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 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/ADMS 3320 3.0.

Degree credit exclusions: AK/ECON 3110 3.0 and AK/MATH 2750 3.0.

AK/ADMS 3351 3.0 Operations Management. Introductory treatment of operations research topics as support to strategic management policies and to the 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/ECON 3470 3.0 or AK/ADMS 3320 3.0 or, for students with equivalent preparation, permission of the Chair of Economics.

Note: This course counts as an elective in an economics major.

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 departmental management science 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 departmental management science 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 departmental management science 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 departmental management science 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.

Cross-listed to: AK/HLST 3240 3.0.

Prerequisite: AK/ADMS 1000 3.0 for all BAS and BAS (Honours) students.

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 3930 6.0, AK/SOCI 4500 6.0, AK/ADMS 3410 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.

Prerequisite: AK/ADMS 2600 3.0 (formerly AK/ADMS 3480 3.0).

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. Overview of information systems and technology: how information systems are selected, designed and managed to provide information needed to run organizations successfully. Topics include the strategic role of information systems; ethical considerations; technology; information systems 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.

Note: Not open to students who have taken or taken 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 exclusion: AS/ECON 4400 3.0.

Note: Use of an IBM-compatible computer required.

AK/ADMS 3535 3.0 Financial Statement Analysis. Designed to provide a comprehensive discussion of financial statement analysis, and is keyed to level I of the Chartered Financial Analysts (CFA) Exam. The course is organized into three parts: Analysis and Overview; Accounting Analysis; and Financial Analysis.

Prerequisites: AK/ADMS 2500 3.0 and AK/ADMS 2510 3.0.

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 One. 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.

AK/ADMS 3620 3.0 Elements of Law: Part Two. 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.

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 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 3.0/4770 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/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.

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 six credits in management science. 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 department 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: 1) For students in the Honours program, 78 credits including AK/ADMS 2400 3.0 or 2) other students, 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 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 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 4245 3.0 E-Marketing. Addresses how electronic marketing is changing the dynamics of commerce, including how firms determine where and how to use the Internet for such things as customer relations management, retailing, branding, and business-to-business commerce.

Prerequisites: AK/ADMS 1000 3.0 and 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.

The research process is examined emphasising overall design and proposal development. Topics include research ethics, research question and hypothesis development, methodology in data collection, and statistical approaches to data analysis. Exploratory research is conducted and a research proposal prepared.

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.

Approaches to examination and analysis of marketing survey response data and the presentation of such analysis are emphasised. The use of SPSS is introduced. Topics covered include measurement scales, data coding, multivariate statistical techniques, and variate interpretation.

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 six credits in management science. 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 six credits in management science. 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 six credits in management science. Open only to students in Honours programs.

AK/ADMS 4370 3.0 Statistical Data Analysis Systems. Introduces Windows-based data processing software and provides overview of computing concepts and data processing using SAS, SPSS, and STATA. Covers such statistics techniques as data visualization and summary, analysis of contingency tables, linear and logistic regressions, and nonparametric methods (same as AK/MATH 4035 3.0).

Cross-listed to: AK/MATH 4035 3.0.

Prerequisite: AK/ADMS 3320 3.0.

Elective course for: BAS-ITEC and BAS-HURE.

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 ADMS 3480 3.0 or AK/ADMS 2600 3.0 or 2) other students, a grade of B or better in 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 2600 3.0; AK/ADMS 3410 3.0.

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 ADMS 3480 3.0 or AK/ADMS 2600 3.0 or 2) other students, a

grade of B or better in 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: 1) For students in the Honours program, 78 credits including ADMS 2400 3.0 or 2) other students, a grade of B or better in ADMS 2400 3.0.

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

AK/ADMS 4470 3.0 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 six credits in management science. 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 4503 3.0 Derivatives and Fixed Income Securities. Explores the pricing and use of derivatives and fixed income securities. Topics covered include options, forwards, futures, swaps, yield curve analytics, forward rate agreements, swaps, other interest rate derivatives, value at risk and other risk management metrics.

Prerequisite: ADMS 3530 3.0.

Degree credit exclusion: AS/ECON 4410 3.0.

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 six credits in management science, 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 4541 3.0 Advanced Corporate Finance. Explores corporate financial decision making through case study analysis. Topics examined include short-term financial decision-making, long-term financing, financial innovation, and strategic financial decisions. Themes include valuation, financial analysis, risk management and integrated business decision-making.

Prerequisite: AK/ADMS 3540 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, 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 US 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 3520 3.0; or 2) other students, a grade of B or better in the 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 six credits in management science 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 six credits in management science; 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 six credits in management science; 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 six credits in management science; 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 six credits in management science; 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 six credits in management science; 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 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.

AK/ADMS 4770 3.0/3720 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 and AK/NURS 3500 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.

Prerequisite: AK/ADMS 3720 3.0 or AK/ADMS 4770 3.0 or 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 US, the UK 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 six credits in management science. 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 six credits in management science. 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 six credits in management science. Open only to students in Honours programs.

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

ADMS 2300 6.0 Research Methods in Health Studies

ADMS 3710 3.0 Comparative Health Administration

ADMS 3720 3.0 Program Evaluation in Health Care Part I

ADMS 3730 3.0 Program Evaluation in Health Care Part II

ADMS 3740 3.0 Health and Aging

ADMS 3750 3.0 Behavioural and Social Aspects of Health

ADMS 3760 3.0 Financial Management in Health Care Institutions

ADMS 4760 3.0 Managerial and Leadership Competencies

Canadian Studies

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 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

1000-Level Courses

AK/AS/SC/COSC 1020 3.0 Introduction to Computer Science I. Conceptual foundations of object-oriented programming, including data types, control structures, class library usage, encapsulation, inheritance and other abstractions; the software development process, specification and implementation, with emphasis on software engineering principles. Three lecture hours and weekly laboratory sessions.

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 per cent in all OAC mathematics and no grade less than 65 per cent; otherwise: at least six credits of university-level mathematics with a grade average over all mathematics 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/ITEC 1020 3.0, AK/AS/ITEC 1620 3.0.

AK/AS/SC/COSC 1030 3.0 Introduction to Computer Science II. This course builds on COSC 1020 3.0 covering class implementation and system design in object-oriented programming, including composition, inheritance, polymorphism, and exception handling. Other topics include, recursion, searching and sorting, and introductory data structures.

Prerequisite: 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/ITEC 1030 3.0, AK/AS/ITEC 2620 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. 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: General prerequisites.

Degree credit exclusions: AK/COSC 3501 3.0, AK/AS/ITEC 2011 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.

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 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 2090 3.0 (or AK/AS/SC/MATH 2320 3.0 or AK/MATH 2442 3.0) and AK/AS/SC/COSC 2001 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; AS/SC/MATH 3241 3.0. or AK/AS/SC/COSC 3121 3.0.

Degree credit exclusion: AS/SC/MATH 3242 3.0.

AK/AS/SC/COSC 3201 4.0 Digital Logic Design. Theory and design of logic circuits used in digital systems. This is an intermediate level course that uses a Hardware Design Language to illustrate modern design techniques and is supplemented by hardware laboratory exercise (two hours per week).

Prerequisites: General prerequisites, including AK/AS/SC/COSC 2021 3.0. SC/PHYS 3150 3.0 is strongly recommended.

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 3213 3.0 Computer Networks I. This course introduces the basics of communications and networking. Topics include transmission media; fundamental limits; protocols and hierarchies; the OSI model; encoding of data as signals; error and flow control; medium access; routing; internetworking; transport services; high-level applications.

Prerequisites: General prerequisites.

Degree credit exclusions: AK/AS/SC/COSC 3211 3.0, AK/AS/SC/COSC 3212 3.0, AK/COSC 3409A 3.0, AK/COSC 3409B 3.0, AK/AS/ITEC 3210 3.0.

AK/AS/SC/COSC 3215 4.0 Embedded Systems. Introduction to the design of embedded systems using both hardware and software. Topics include microcontrollers; their architecture, and programming; design and implementation of embedded systems using field programmable gate arrays.

Prerequisites: General prerequisites, including AK/AS/SC/COSC 3201 4.0.

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/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 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 exclusions: AS/SC/COSC 3520 3.0, 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 2090 3.0 or AK/AS/SC/MATH 2320 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 2030 3.0 or 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.

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/ITEC 3220 3.0.

AK/AS/SC/COSC 3451 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 4451 3.0, 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 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.

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 or AK/AS/ITEC 3230 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/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.

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.

Degree credit exclusion: AK/COSC 4021 3.0.

AK/AS/SC/COSC 4115 3.0 Computational Complexity. Study of time and space and other computational resources required for efficient solution of classes of computational problems, including P and NP, PSPACE. Proof techniques including diagonalization, simulation, reduction and completeness. Models of computation, nondeterminism, randomness. Intractability.

Prerequisites: General prerequisites for fourth year and AK/AS/SC COSC 3101 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 MATH 2030 3.0; AK/AS/SC COSC 3211 3.0 or AK/AS/SC COSC 3213 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 4213 3.0 Computer Networks II. This course covers more advanced topics in networking and concentrates on higher-level protocols, security, network programming and applications.

Prerequisite: General prerequisites, including AK/AS/SC/COSC 3212 3.0 or AK/AS/SC/COSC 3213 3.0.

AK/AS/SC COSC 4214 3.0 Digital Communications. Introduces fundamental principles underlying design and analysis of digital communication systems. Develops mathematical / physical understanding from the information source through the transmitter, channel, receiver, and information sink. Topics include baseband transmission, matched filtering, modulation, channel coding, and spread spectrum.

Prerequisites: AK/AS/SC/COSC 3213 3.0; AK/AS/SC/COSC 3451 3.0 or SC/EATS 4020 3.0

or SC/PHYS 4250 3.0; AK/AS/SC/MATH 2030 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.

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 4312 3.0 Software Engineering Requirements. Deals with the elicitation, specification and analysis of software requirements and provides a critical description of available methods and tools, and practical exercises on applying these methods and tools to realistic problems.

Prerequisites: General prerequisites, including AK/AS/SC COSC 3311 3.0.

AK/AS/SC COSC 4313 3.0 Software Engineering Testing. An Introduction to systematic methods of testing and verification, covering a range of static and dynamic techniques and their use within the development process; emphasizes the view

that design should be carried out with verification in mind to achieve overall project goals.

Prerequisites: General prerequisites, including AK/AS/SC COSC 3311 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.

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/COSC 3503 3.0 or AK/AS/ITEC 3421 3.0.

Degree credit exclusions: AK/COSC 4442 3.0.

AK/AS/SC/COSC 4412 3.0 Data Mining. This course introduces basic concepts of data mining. It presents various data mining techniques, models and applications. Topics include

association rule mining, classification models, sequential pattern mining and clustering.

Prerequisites: General prerequisites for 4000-level courses, including AK/AS/SC COSC 3421 3.0 and one of AK/AS/SC MATH 2030 3.0 or AK/AS/SC MATH 1131 3.0.

AK/AS/SC/COSC 4413 3.0 Building E-Commerce Systems. Technological infrastructure for electronic commerce on the Internet. Terminology and architectures. Security and cryptography. Content presentation. Web protocols. Adaptive, intelligent agents and data mining. Vertical applications.

Prerequisites: General prerequisites; including AK/AS/SC/COSC 3212 3.0 or AK/AS/SC/COSC 3213 3.0, AK/AS/SC/COSC 3221 3.0 or AK/AS/SC/COSC 3321 3.0, AK/AS/SC/COSC 3421 3.0.

Degree credit exclusion: AK/AS/ITEC 4020 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 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

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

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 AS/ECON 1530 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 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.

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 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 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 3120 3.0 Operations Management. 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.

Cross-listed to: AK/ADMS 3351 3.0 and AK/MATH 2751 3.0.

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: This course counts as an elective in an economics major.

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.

Cross-listed to: AK/ADMS 3352 3.0 and AK/MATH 2752 3.0.

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: This course counts as an elective in an economics major.

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 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 Public Finance and the Role of Government in the 2000's. Identifies the role of government in a modern economy and examines the interaction between government's attempts to provide services and the financing of expenditures through traditional and non-traditional means.

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 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 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 exclusion: 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. The course identifies contemporary economic problems facing Canada and examines the economic policy options that are

available for addressing these issues. These issues include: government transfer payments, industrial productivity, unemployment, and health care, economic growth and inflation, and globalization.

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 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 3.0/3561 3.0, AS/ECON 3069 3.0/3079 3.0, AK/ECON 3670 3.0/3690 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 3.0/3680 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.

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 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 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. Feasibility 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 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 Chair of the Department 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 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 six 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 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-US 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 multidisciplinary 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 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 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 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

Please note: The names of writers included in the course descriptions below are representative. The actual selection of 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 or major credit. **Not a gateway credit for English majors except by special permission of the English coordinator.** (formerly AK/EN 2430. 6.0)

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

AK/EN 2430 6.0 History and Development of the Theatre. Major periods of theatrical history from the Greeks to the modern day. Emphasis is on theatre design, styles of performance, and the original social milieu of the plays and theatres. Includes source material and major works from each period. For elective credit only. **Not a gateway credit for English majors except by special permission of the English coordinator.**

Cross-listed to: AK/THEA 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 or major credit. **Not a gateway credit for English majors except by special permission of the English coordinator.** (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.

AK/EN 3260 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.

Cross-listed to: AK/HUMA 3330 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.

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 3754 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.

Cross-listed to: AK/HUMA 3390 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.

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/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.

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 Gaudreau, 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.

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 milieux 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.

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.

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 and Shorter Fiction. Examines the poetry and shorter fiction 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 3950 3.0/3950 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.

Cross-listed to: AK/HUMA 3660 3.0/3660 6.0.

AK/EN 3955 3.0/3955 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.

Cross-listed to: AK/HUMA 3670 3.0/3670 6.0.

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)

Note: Not open to students who have taken AK/EN 3895 3.0.

AK/EN 3966 6.0 Politics and Literature. A n 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 multimedia 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)

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 coordinator 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 coordinator 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 coordinator of English must be obtained.

Note: Not open to students who have taken AK/EN 4020 6.0.

AK/EN 4095 3.0/4095 6.0 Directed Reading. Affords an opportunity to conduct a detailed, independent study of the student's own choosing. (formerly AK/EN 4000 3.0/4000 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 coordinator 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 coordinator 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 coordinator 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 coordinator 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 coordinator 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 coordinator 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 coordinator 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 coordinator 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 coordinator 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 coordinator of English must be obtained.

Note: Not open to students who have taken AK/EN 4030 6.0.

Special Topics:

AK/EN 4997 3.0/4997 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 coordinator of English must be obtained. (formerly AK/EN 4100 3.0/4100 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.

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 3.0/2010 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 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 2200 3.0 Communication, Voice and Presentation Skills (Studio). A practical course for students wanting to communicate more effectively. Fundamental physical and vocal techniques will be practiced. Story-telling exercises, extemporaneous speech, text analysis, and presentation techniques will facilitate expertise in public speaking. Video feedback will be provided.

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)

Prerequisite for D: 2000-level fine arts courses and discussion with course director.

Note: Not open to students who have taken AK/FA 3010 3.0 or AK/FA 3010 6.0 in the same subject area.

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

AK/FA 4500 3.0/4500 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: Not open to students who have taken AK/FA 4500 3.0 or AK/FA 4500 6.0.

- 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

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 Fine Arts Program.

AK/FILM 2340 3.0/2340 6.0 Video and Film Production (Studio). Theoretical and practical introduction to video and filmmaking, explored through a variety of approaches such as home movies, documentary, drama, performance and

experimental film and video. The second half of the 6.0 course provides more intensive treatment of practical and theoretical topics undertaken in the first half.

Prerequisite: Permission of the Film coordinator. May entail an interview with the Film coordinator.

Note: Not open to students who have taken AK/FILM 2340 3.0/2340 6.0.

AK/FILM 2400 6.0 Introduction to Film Studies. A non-historical examination of film as a medium of artistic expression, its uses and abuses; analysis and arts; problems and powers.

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 6.0, 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 6.0, 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 325 3.0 Work of Selected Filmmakers. An intensive study of the stylistic and thematic elements in the work 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: This course may be taken as a studio or film study course.

AK/FILM 3440 3.0 European Cinema: Postwar. 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.

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.

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 Verité 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.

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.

AK/FILM 3600 3.0/3600 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. The second half of the 6.0 version develops an historical survey of the effect of television on contemporary society.

Prerequisite: AK/FILM 2400 6.0.

Note: Not open to students who have taken AK/FILM 3600 3.0/3600 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.

Prerequisite: 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 film-makers 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 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
- 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: Not open to students who have taken AK/FILM 4500 3.0 or AK/FILM 4500 6.0 in the same subject area.

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 a departmental 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 six additional film credits and permission of the Film coordinator and 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.

- 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 department for the current topic.

Geography

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 of Social Sciences before each academic session. Consult individual course outlines.

- A. Marketing Geography (3.0)

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 undergraduate program director.

Degree credit exclusions: AS/SC/GEOG 2390G 3.0/3400 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 undergraduate program director.

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 undergraduate program director.

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 undergraduate program director.

AK/GEOG 3400 6.0 Gender, Population and Migration. Characteristics and problems in growth and distribution of human populations, including birth, fertility and death rates, population growth and environment, globalization and migration, and population control policies. Gender perspectives are emphasized.

Cross-listed to: AK/SOCI 3880D 6.0.

AK/GEOG 3410 6.0 Social and Cultural Spaces. Encompassing two core areas in human geography, this course discusses the ways in which places and identities are socially and culturally produced, the human impact on the landscape, and the diffusion and alteration of languages, religions and other cultural forms.

Cross-listed to: AK/SOSC 3302 6.0.

Degree credit exclusions: AS/GEOG 2065 3.0 and AS/GEOG 2300 6.0.

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 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.

Cross-listed to: AK/POLS 3702 6.0.

Equivalents and degree credit exclusions: AS/GEOG 2050 6.0/3050 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 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 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.

D. Peopling of Ontario (3.0/6.0)

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 undergraduate program director.

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 undergraduate program director.

Equivalents and degree credit exclusions: AS/SC/GEOG 3180 3.0, ES/ENVS 3520 3.0.

AK/AS/GEOG 3650 6.0 WiredCities: Community, Technology and Changing Urban Places. Examines the impact of technology on urban form, urban function and community. Emphasis is placed on the social, economic and political parameters of urban infrastructure, community formation, and everyday life in the wake of technological change.

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 undergraduate program director.

Degree credit exclusion: AS/GEOG 4130 3.0.

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 subdivisions. 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 undergraduate program director.

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 undergraduate program director.

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 undergraduate program director 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 undergraduate program director.

Degree credit exclusion: AS/GEOG 4110 3.0.

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 undergraduate program director.

Equivalent and degree credit exclusion: AS/GEOG 4340 3.0.

Degree credit exclusion: ES/ENVS 4520 3.0.

AK/GEOG 4500 3.0/6.0 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 adviser.

Prerequisites: 102 credits and permission of the undergraduate program director.

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.

Greek

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/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/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/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/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/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

AK/HLST 1000 6.0 Introduction to Health Studies. An introduction to current issues concerning health policy, health system management, and health informatics. Explores the social, economic and political influences on concepts of health and the organization and delivery of health and social services.

AK/HLST 2020 3.0 Health Policy: Power and Politics. Examines the development of health policy from the micro, meso and macro points of view. Explores how decisions are made and the role of both government and non-government bodies, using case histories to illustrate the interplay of these factors.

Prerequisite: For BHS students AK/HLST 1000. All other students AK/HLST 1000 6.0 or for those with equivalent preparation, permission of course instructor.

Note: AK/HLST 2020 3.0 is a required course for majors in the bachelor of health studies.

AK/HLST 2030 3.0 Health Management 1: Essentials of Health Care Management. Examines key areas that comprise the field of health care management by building on the root disciplines of organization theory, strategic management and organizational behaviour. Topics include the design and managerial roles in health care organizations, leadership and motivation, work team performance, and interorganizational relationships.

Prerequisite: AK/HLST 1000 6.0 or, for those with equivalent preparation, permission of the instructor.

AK/HLST 2040 3.0 Health Informatics 1: Introduction to Health Informatics. Introduces basic principles of health informatics as applied to a variety of health and social area applications. Examines how the delivery of healthcare is changed in response to new technology development. Explores knowledge and skills in the field of health data

collection, storage, process and communication.

Prerequisite: AK/HLST 1000 6.0 or, for those with equivalent preparation, permission of the instructor.

Degree credit exclusion: AK/NURS 3200 3.0.

AK/HLST 2999 0.0 Work Term Report I. Supplements the student's initial learning by providing an opportunity to gain practical experience in the workplace. Student will identify a program-related issue in the workplace, consider its source, and identify the key considerations to be addressed in its resolution.

Note: Only open to students in the co-op option, BHS program.

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 Social Determinants of Health. Societal factors determine why some people stay healthy and others become ill. This course examines how these determinants of health influence health. Focus is upon income, stress, early life, social exclusion, work conditions, unemployment, social support, addiction, food, and transportation.

Prerequisite: For BHS students AK/HLST 1000 6.0. All other students AK/HLST 1000 6.0 or for those with equivalent preparation, permission of course instructor.

AK/HLST 3011 3.0 Structural Approaches to Health Promotion and Education. A structural analysis of the theoretical, conceptual and programmatic micro, meso and macro systems that work towards positive health and wellbeing of individuals, groups and communities.

Prerequisite: AK/HLST 1000 6.0 or permission of instructor.

AK/HLST 3015 3.0 Pharmaceutical Politics and Policy. Examines the place of pharmaceuticals in the Canadian health care system. Focuses on conflicts among stakeholders in policy formation, costs, and physician prescribing behaviour.

Prerequisites: 36 credits or permission of the instructor.

AK/HLST 3100 3.0 Integrated Health Systems in Canada. Examines and critiques the elements and concepts of an evolving integrated health system (IHS) in Canada. Studies the evolution and the socio-political-economic impact of this new evolving holistic and integrated health-healing model from an inter-disciplinary and cross-sectoral perspective.

Prerequisites: Successful completion of 24 credits or permission of course instructor.

AK/HLST 3110 3.0 History of Health Policy in Canada. Examines critical points in the development of Canada's health care system at the municipal, provincial and federal level. Focuses on understanding the perspective of the different parties and the historical context in which the policies were implemented.

Prerequisites: AK/HLST 1000 6.0, AK/HLST 2020 3.0 or permission of the instructor

AK/HLST 3120 3.0 Health Policy II: Analysing Processes of Power and Politics. A continued exploration of the processes of health policy development, and the outcomes to which they lead. Varying analytic approaches will be applied to three policy themes: the public/private mix in health care, integrated health systems, and international health systems.

Prerequisite: AK/HLST 2020 3.0 or permission of course instructor.

AK/HLST 3210 3.0 Health Services Management. Please contact the Chair of the School of Health Policy & Management for more information.

AK/HLST 3230 3.0 Health Management II. Please contact the Chair of the School of Health Policy & Management for more information.

AK/HLST 3240 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.

Cross-listed to: AK/ADMS 3400 3.0.

Prerequisite: AK/ADMS 1000 3.0, for all BAS and BAS Honours students.

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 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 3341 3.0 Health Informatics II: Health Information Systems. Designed to develop a global understanding of the significance of health information systems (HIS) in healthcare. Topics include: health information management, HIS implications in transformation of health care and health care services delivery, standards development, technical and policy issues surrounding security, privacy and confidentiality of health care data.

Prerequisite: AK/HLST 2040 3.0 or, for those with equivalent preparation, permission of the instructor.

AK/HLST 3400 3.0/3400 6.0 Critical Perspectives on Health Organizations. Health organizations, such as hospitals, clinics and many community welfare organizations are established in a deliberate manner for the attainment of specific health goals. The focus of this course will be on the dynamics found within such organizations and the relationships between these organizations and broader socio-political environment. Organizational processes and concepts such as institutionalization, leadership, change, rationality, bureaucracy, structure, power and technology will be examined in a critical way.

Prerequisite: AK/HLST 1000 6.0 or for those with equivalent preparation, permission of the course instructor.

AK/HLST 3510 3.0 Poverty and Health in Canada: Current Evidence and Policy Responses. Examines evidence related to the increasing incidence of poverty in Canada and the mechanisms by which poverty threatens the health of both the poor and not poor. Explores various potential policy responses.

Prerequisites: 24 credits with at least six in either anthropology, education, health sciences, nursing, psychology, sociology, or a related social science, or by permission of the instructor.

AK/HLST 3520 3.0 Lifespan Approaches to Health: Societal Influences on Human Development. Examines research findings on how the health of populations result from the interaction of human potentials with societal influences.

Prerequisites: 24 credits at least six of which are in education or the social sciences, or by permission of the instructor.

AK/HLST 3530 3.0 Population Aging and Health: Policies, Programs and Issues. Aging in Canada has been depicted by many in the health care community as a looming calamity. This course takes a unique Canadian focus and proposes that population aging can be a challenge that will force Canada's health care system to make some careful and innovative policy, program and service choices.

Prerequisites: Successful completion of 24 credits or permission of instructor.

AK/HLST 3540 3.0 International Agencies in Health Care: The World Bank vs. the World Health Organization (WHO). Non-governmental and supranational agencies are playing an increasing role in the health care planning and in influencing the development of health care policies in both developed and developing countries. Students will examine the roles of a number of these agencies.

Prerequisites: 24 credits or permission of the instructor.

AK/HLST 3999 0.0 Work Term Report II. Provides the student with an opportunity to contrast and compare classroom learning with

practical workplace realities. Students will identify health-related issues in their workplace and illustrate successful applications of their classroom learning.

Prerequisite: Successful completion of AK/HLST 2999 0.0.

Note: Only open to students in the co-op option, BHS program.

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 six 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. Surveys contemporary Canadian and international health policy including its formation, content and outcome from a range of theoretical perspectives. Integrates different methodological and analytic approaches to the study of public policy, and explores health policy issues in several sub-sectors.

Prerequisites: AK/HLST 2020 3.0 and AK/HLST 3120 3.0 or equivalent or permission of the course instructor.

AK/HLST 4110 3.0 Comparative Health Policy. Examines historical, cultural, environmental, economic and political considerations of "national health systems" throughout the world, especially as health becomes less isolated and more an interconnected and integral part of all the other systems impacting our globe.

Prerequisites: AK/HLST 1000 6.0 and AK/HLST 2020 3.0 or equivalent, or permission of course instructor.

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 4130 3.0 Public Policy and Disabilities. This course examines public policy approaches to disability in Canada and other western nations. It considers the extent to which public policy can provide persons with

disabilities access to societal resources; voice in policy development and opportunities for participation in everyday life.

Prerequisites: AK/HLST 1000 6.0, AK/HLST 2020 3.0 or equivalents.

AK/HLST 4200 6.0 Applied Research Approaches in Health Studies: Advanced Seminar. Examines key issues associated with inquiry into health policy, management and informatics issues. The advanced seminar topics include various research methods and design issues relevant to health studies, data analysis and communication of research findings.

Prerequisites: AK/HLST 1000 6.0, AK/HLST 2020 3.0, AK/HLST 2030 3.0, AK/HLST 2040 3.0 and AK/ADMS 2300 6.0 or with permission of the course director.

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.

AK/HLST 4330 3.0 Health Care Management in Informatics. Please contact the Chair of the School of Health Policy and Management for more information.

AK/HLST 4510 3.0 Health and Human Rights. Examines how health and human rights are complementary approaches to understanding and analyzing human well-being. The congruence of the two fields has arisen as the definition of human rights has expanded from civil and political rights to include social and economic rights. Will examine this evolution and its implications.

Prerequisites: At least 36 credits or permission of course instructor.

AK/HLST 4999 0.0 Work Term Report III.

Calls for students to identify and design a potential inquiry based upon a situation encountered in the workplace. Students will outline, identify reasons for, and make recommendations for a proposed study on a specific problem.

Prerequisite: Successful completion of AK/HLST 3999 0.0.

Note: Only open to students in the co-op option, BHS program.

History

AK/HIST 2100 3.0/2100 6.0 Special Topics.

In any given session the history program may offer one or more of the following courses under this rubric. Such courses reflect the desire of the program to offer new courses on themes and topics that are of interest to faculty and students.

A. Historical Perspective on Business

Explores the historical forces that have been significant in the development of business in general and Canadian business in particular.

Prerequisite: One general education course.

Degree credit exclusion: SB/CC 1000 6.0.

AK/HIST 2120 6.0 History of Modern Science.

Explores some of the central issues and theories in the history of the physical and life sciences since the Renaissance. The focus is on the institutional trends and changing conceptual frameworks as they related to larger societal change.

Cross-listed to: AK/STS 2010 6.0.

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 department 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.

AK/HIST 3130 6.0 History of Computing and Information Technology.

A course dealing with key issues in a science discipline, technology and society or in an interdisciplinary science. Topics will vary from year to year.

Cross-listed to: AK/STS 3700B 6.0.

Americas (includes all courses in Canadian, US 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 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, formerly 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.

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/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 program 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 Chair 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.

Prerequisites: 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)

Cross-listed to: AK/POLS 4182 6.0 and AK/SOCI 4084 6.0.

Prerequisites: 78 credits.

Note: Not open to students who have taken or are taking AK/HIST 4210 6.0 or AK/POLS 4182 6.0.

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.

Prerequisite: 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)

Prerequisites: 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.

AK/HIST 4910 6.0 Gender, Culture and Society in the Middle East. Culture and social change in the Middle East, with focus on the politics of religion, gender and identity, both within and beyond the region's borders. Case studies may include such countries as Algeria, Egypt, Iran, Israel, Pakistan and Turkey.

Cross-listed to: AK/SOCI 4081 6.0.

Note: Not open to students who have taken or are taking AK/HIST 4910 6.0 or AK/SOCI 3610 6.0.

Humanities

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 BC-400 AD). 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 des 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 1745 6.0 Thinking about Contemporary Canada. Examines how writers, filmmakers, singers and philosophers understand Canada at the end of the 20th century. Emphasizes a range of voices, both rooted in Canada and immigrant, and on issues critical to arrival, belonging and the idea of nation

Cross-listed to: AK/ENSL 1450 6.0.

Note: This course comprises the ESL requirement for incoming ESL students. It may be counted as fulfilling the general education humanities requirement or as an elective credit.

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 1770 6.0 One World: Historical and Cultural Perspectives of Globalization. Explores the social and cultural interactions of the peoples of the World from pre-history to the 21st century with the main emphasis placed on the period between 1500 and the present.

AK/HUMA 1780 6.0 Stories in Diverse Media. Focuses on recurrent stories and themes that have been realized in a variety of media (film, literature, music, theatre, visual arts). Emphasized are various settings for the arts and their reception by audiences, viewers and readers.

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 AD). 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 "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

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 2300 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 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.

AK/HUMA 2605 6.0 Selected Topics. Selected courses which are not a feature of the department'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 & 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 the Humanities Program.

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 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.

Cross-listed to: AK/EN 3260 6.0.

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 in her fiction, essays and autobiographical writings.

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.

Cross-listed to: AK/EN 3754 6.0.

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 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 3.0/3605N 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. May be taken independently of AK/HUMA 3459 3.0.

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. May be taken independently of AK/HUMA 3458 3.0.

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 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 department's regular offerings may occasionally be given.

- 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.

Cross-listed to: AK/EN 3950 3.0/3950 6.0.

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.

Cross-listed to: AK/EN 3955 3.0/3955 6.0.

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 the Humanities Program.

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.

AK/HUMA 4605 6.0 Selected Topics. Selected courses which are not a feature of the department's regular offerings may occasionally be given.

Prerequisite: 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 department'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/WWST 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
- 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/department 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

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 1620 3.0 Object-Based Programming. An introduction to problem solving, task decomposition, and algorithm development in the context of object-oriented and structured programming techniques. Taught in Java, topics include primitive data types, control structures, simple classes, strings and arrays. The course also introduces object-oriented design and the use of APIs to develop applications from existing classes.

Prerequisite: None.

Degree credit exclusions: AK/AS/ITEC 1020 3.0, AK/AS/SC/COSC 1020 3.0.

AK/AS/ITEC 1630 3.0 Object-Oriented Programming. A continuation of problem solving and algorithm development in the context of object-oriented programming techniques. Taught in Java, topics include inheritance, polymorphism, interfaces and events. Object-oriented design principles will be presented in conjunction with applications in graphics and user interfaces.

Prerequisite: AK/AS/ITEC 1620 3.0 or AK/AS/ITEC 1020 3.0 or AK/AS/SC/COSC 1020 3.0.

Note: A grade of C or better is required in this course to take AK/AS/ITEC 2620 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 and AK/AS/ITEC 1620 3.0.

AK/AS/ITEC 2620 3.0 Introduction to Data Structures. A completion to introductory problem solving and algorithm development. Taught in Java, topics include linked lists, binary trees, stacks, queues, and other elementary data structures. Complexity analysis is introduced with an emphasis on searching and sorting algorithms.

Prerequisite: AK/AS/ITEC 1630 3.0 with at least a grade of C.

Degree credit exclusions: AK/AS/ITEC 1030 3.0, AK/AS/SC/COSC 1030 3.0.

Note: A grade of C or better is required in this course to take any upper-level information technology courses.

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: general prerequisite - Mathematics requirement (AK/AS/SC/MATH 1190 3.0, AK/AS/SC/MATH 2320 3.0, AK/AS/

SC/MATH 2560 3.0, and AK/AS/SC/MATH 2570 3.0); AK/AS/ITEC 2010 3.0; and AK/AS/ITEC 2620 3.0 or AK/AS/ITEC 1030 3.0 or AK/AS/SC/COSC 1030 3.0 with at least a grade of C.

AK/AS/ITEC 3220 3.0 Using and Designing Database Systems. An examination of databases, trends in database management systems and their application in a wide range of organizational areas. The course will provide an overview of database processing in modern organizations and will discuss current and emerging trends in database processing.

Prerequisites: general prerequisite - Mathematics Requirement (AK/AS/SC/MATH 1190 3.0, AK/AS/SC/MATH 2320 3.0, AK/AS/SC/MATH 2560 3.0 and AK/AS/SC/MATH 2570 3.0); AK/AS/ITEC 2010 3.0 or AK/AS/ITEC 2620 3.0 or AK/AS/ITEC 1030 3.0 or AK/AS/SC/COSC 1030 3.0 with at least a grade of C.

Degree credit exclusions: AK/AS/ITEC 3421 3.0, AK/AS/SC/COSC 3421 3.0.

AK/AS/ITEC 3230 3.0 Designing User Interfaces. Examines a range of topics in the analysis and design of user interfaces and human-computer interaction. Focusing on the human perspective, the course will discuss improving interaction with computers and reducing the possible mismatch between human and machine.

Prerequisites: AK/AS/ITEC 1630 3.0 and general prerequisite - Mathematics requirement (AK/AS/SC/MATH 1190 3.0, AK/AS/SC/MATH 2320 3.0, AK/AS/SC/MATH 2560 3.0, AK/AS/SC/MATH 2570 3.0); AK/AS/ITEC 2010 3.0; and AK/AS/ITEC 2620 3.0 or AK/AS/ITEC 1030 3.0 or AK/AS/SC/COSC 1030 3.0 with at least a grade of C.

Degree credit exclusions: AK/AS/ITEC 3461 3.0, AK/AS/SC/COSC 3461 3.0.

Note: Students taking AK/AS/ITEC 3230 3.0 before Fall 2003 will not be required to take AK/AS/ITEC 1630 3.0 as a prerequisite.

AK/AS/ITEC 4000 3.0 Research Project in Information Technology. Under the supervision of a faculty member, and with permission of the program coordinator, students may carry out an independent research project in an area of information technology.

Prerequisites: General upper-level prerequisites plus AK/AS/ITEC 3210 3.0, AK/AS/ITEC 3220 3.0, and AK/AS/ITEC 3230 3.0, and permission of the program coordinator.

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 3220 3.0 or AK/AS/ITEC 3421 3.0 or AK/AS/SC/COSC 3421 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 3220 3.0 or AK/AS/ITEC 3421 3.0 or AK/AS/SC/COSC 3421 3.0 and AK/AS/ITEC 3230 3.0 or AK/AS/ITEC 3461 3.0 or AK/AS/SC/COSC 3461 3.0.

AK/AS/ITEC 4030 3.0 IT Strategies.

An overview of current generic IT solutions used to support business processes in organizations. An emphasis will be placed on the analysis of those business processes, how to improve them, and how to connect them with the appropriate IT solutions available.

Prerequisites: AK/AS/ITEC 3210 3.0 and AK/AS/ITEC 3220 3.0 or AK/AS/ITEC 3421 3.0 or AK/AS/SC/COSC 3421 3.0.

AK/AS/ITEC 4040 3.0 Requirements Management.

Focuses on methods and techniques to elicit, model, analyze, and manage software requirements for improving current business processes. Topics include project management, including how to manage software development through all phases of the life cycle.

Prerequisites: General upper-level prerequisites; AK/AS/ITEC 4010 3.0 is recommended.

AK/AS/ITEC 4100 3.0 Topics in Information Technology.

Topics will vary from year to year. Please consult the Information Technology program supplemental calendar for more detailed information.

Prerequisites: General upper-level prerequisites plus AK/AS/ITEC 3210 3.0, AK/AS/ITEC 3220 3.0, and AK/AS/ITEC 3230 3.0, and permission of the program coordinator.

AK/AS/ITEC 4220 3.0 Modern Approaches to Data Management: Database Management Systems.

Builds on the background in ITEC 3220 3.0 to study advanced topics of database management systems: transaction management, crash recovery, and security. In addition, object database systems and information retrieval systems are investigated.

Prerequisites: General upper-level information technology prerequisites plus either AK/AS/ITEC 3220 3.0 or AK/AS/SC/COSC 3421 3.0.

Latin

A degree program including Latin courses is available under Classical Studies.

AK/LA 1400 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.

AK/LA 3410 6.0 Latin Love Poetry. Selections from the works of Catullus, Propertius, Ovid and selected writers of late antiquity.

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 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

General Education Courses

General education courses do not fulfill elective requirements.

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 mathematics/modes of reasoning 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 department office.

Note 2: Equivalents to AK/MATH 1710 6.0: Students who have completed two OAC mathematics subjects at 70 per cent or higher (one calculus + one other mathematics) or equivalents, within the last two years. Students who have not done so may write and exemption test. Details are available through the School of Analytic Studies and Information Technology.

Note 3: All students, whether newly admitted or transfer students, who have completed a university level calculus may not take AK/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.

Note 4: A Frequently Asked Questions Sheet about AK/MATH 1710 6.0 is available from the School of Analytic Studies and Information Technology.

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.

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.

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/MATH 2220 6.0.

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: AS/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, SC/BIO 2060 3.0, SC/BIO 3080 3.0, SC/BIO 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, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AS/SC/PSYC 2022 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 (taken before Fall 1998), AS/SC/MATH 1120 3.0. This course is not open to any student who has passed or is taking (i) AK/AS/SC/MATH 1090 3.0 (after Summer 1998) or (ii) any 3000- or higher-level MATH course.

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/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 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: AK/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/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: 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.

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 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, 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.

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 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 3210 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.

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 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 the understanding of concepts and the use and application to administration.

Prerequisite: AK/MATH 2720 3.0 or AK/ECON 3470 3.0, or, for students with equivalent preparation, permission of the coordinator of Mathematics.

Degree credit exclusions: AK/ADMS 3350 3.0 and AK/ECON 3110 3.0.

Note: This course counts as an elective in a mathematics major.

AK/MATH 2751 3.0 Operations Management. 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/ADMS 3351 3.0 and AK/ECON 3120 3.0.

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 or AK/MATH 3490 6.0.

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.

Cross-listed to: AK/ADMS 3352 3.0 and AK/ECON 3130 3.0.

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: This course counts as an elective in a mathematics major.

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 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 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: AS/SC/GEOG 3421 3.0, AS/SC/MATH 3033 3.0, AK/AS/SC/MATH 3330 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2022 3.0, AS/SC/PSYC 3030 6.0, AS/SOCI 3030 6.0. 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 2222 3.0 or equivalent.

AK/AS/SC/MATH 3090 6.0 Computational Mathematics. Modelling (discrete and continuous, deterministic and stochastic) and practical solutions to general categories of applied problems. Case studies of solutions through modelling and representation of data. Implementation, numerical considerations, efficiency, and application of numerical algorithms. Three lecture hours per week. One term. Three credits.

Prerequisites: AK/AS/SC/COSC 2031 3.0 or AK/AS/SC/COSC 1540 3.0, AK/AS/SC/MATH 2022 3.0, AK/AS/SC/MATH 2030 3.0, AK/AS/SC/MATH 2041 3.0.

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; 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.

AK/AS/SC/MATH 3140 6.0 Number Theory and Theory of Equations. A study of topics in number theory and theory of equations using relevant methods and concepts from modern algebra, such as Abelian groups, unique factorization domains and field extensions.

Prerequisite: AK/AS/SC/MATH 2222 3.0 or permission of coordinator of Mathematics.

AK/AS/SC/MATH 3170 6.0 Operations Research I. Linear programming; transportation problems, including network flows, assignment problems and critical path analysis; integer programming; dynamic programming and an introduction to stochastic models. Applications to a variety of problems in the field of operations research.

Prerequisites: AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 or AK/AS/SC/MATH 2221 3.0; AK/AS/SC/COSC 1520 3.0 or AK/AS/SC/COSC 1540 3.0 or AK/AS/SC/COSC 1020 3.0 or equivalent.

AK/AS/SC/MATH 3190 3.0 Set Theory and Foundations of Mathematics. Paradoxes in naive set theory. Functions and Relations. Axiom of Choice. Order, ordinals and their arithmetic. Cardinals and their arithmetic. Introduction to Axiomatic set theory.

Prerequisite: At least six mathematics credits at the 2000 level whose second digit is not '5' or '7'.

Note: Not open to students who have completed AK/MATH 3590 6.0.

AK/AS/SC/MATH 3210 3.0 Principles of Mathematical Analysis. Rigorous presentation with proofs of fundamental concepts of analysis: limits, continuity, differentiation, integration, fundamental theorem, power series, uniform convergence.

Prerequisite: AK/AS/SC/MATH 3110 3.0.

Note: This course is not open to students who have taken AK/AS/SC/MATH 4010 6.0.

AK/AS/SC/MATH 3260 3.0 Introduction to Graph Theory. Introductory graph theory with applications. Graphs, digraphs. Eulerian and Hamiltonian graphs. The travelling salesman. Path algorithms; connectivity; trees; planarity; colourings; scheduling; minimal cost networks. Tree searches and sortings, minimal connectors and applications from physical and biological sciences.

Prerequisite: At least six credits from 2000-level mathematics courses (without second digit 5, or, in an Atkinson mathematics course, 7).

Note: Not open to students who have completed AK/MATH 3520 6.0.

AK/AS/SC/MATH 3330 3.0 Regression Analysis. Simple regression analysis, multiple regression analysis, matrix form of the multiple regression model, estimation, tests (t- and F-tests), multicollinearity and other problems encountered in regression, diagnostics, model building and variable selection, remedies for violations of regression assumptions.

Prerequisite: AK/AS/SC/MATH 2131 3.0 or AK/MATH 2570 3.0 or AK/ECON 3480 3.0 or AK/ADMS 3320 3.0; AK/AS/SC/MATH 2221 3.0 or equivalent.

Degree credit exclusions: AS/SC/GEOG 3421 3.0, AS/SC/MATH 3033 3.0, AK/AS/SC/MATH 3034 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2022 3.0, AS/SC/PSYC 3030 6.0, AS/SOCI 3030 6.0.

AK/MATH 3400 6.0 Topics in the History of Mathematics. This course is intended to provide an understanding of the origins and the

development of concepts in selected parts of mathematics, which may vary from year to year. Some possible areas of study are the foundations of calculus, the history of the number pi and the two-body problem in mechanics.

Prerequisite: At least 18 credits in mathematics.

AK/AS/SC/MATH 3410 3.0 Complex Variables. Analytic functions, the Cauchy-Riemann equations, complex integrals, the Cauchy integral theorem, maximum modulus theorem. Calculations of residues and applications to definite integrals, two-dimensional potential problems and conformal mappings.

Prerequisite: AK/AS/SC/MATH 2310 3.0 or permission of coordinator of Mathematics.

AK/AS/SC/MATH 3430 3.0 Sample Survey Design. Principal steps in planning and conducting a sample survey. Sampling techniques including simple random sampling, stratified random sampling, cluster sampling and sampling with probabilities proportional to size. Estimation techniques including difference, ratio and regression estimation.

Prerequisite: AK/AS/SC/MATH 2131 3.0 or AK/AS/SC/MATH 3330 3.0.

AK/AS/SC/MATH 4010 6.0 Real Analysis. Survey of the real and complex number systems and inequalities. Metric space topology. The Riemann-Stieltjes integral. Some topics of advanced calculus, including more advanced theory of series and interchange of limit processes. Lebesgue measure and integration. Fourier series and Fourier integrals.

Prerequisite: AK/AS/SC/MATH 3210 3.0.

AK/AS/SC/MATH 4020 6.0 Algebra II. Continuation of Algebra I, with applications: groups (finitely generated Abelian groups, solvable groups, simplicity of alternating groups, group actions, Sylow's theorems, generators and relations); fields (splitting fields, finite fields, Galois theory, solvability of equations); additional topics (lattices, Boolean algebras, modules).

Prerequisite: AK/AS/SC/MATH 3020 6.0.

Degree credit exclusion: AS/SC/MATH 4241 3.0.

AK/AS/SC/MATH 4030 3.0 Probability Theory. Elementary measure theory, convergence of random variables, strong law of large numbers, convergence in distribution, stable laws, conditional expectation, martingales.

Prerequisite: AK/AS/SC/MATH 2030 3.0 or AK/AS/SC/MATH 3030 3.0.

Note: Not open to students who have taken AK/MATH 4030 6.0.

AK/MATH 4035 3.0 Statistical Data Analysis Systems. Introduces Windows-based data processing software and provides overview of computing concepts and data processing using SAS, SPSS, and STATA. Covers such statistics techniques as data visualization and summary, analysis of contingency tables, linear and logistic regressions, and nonparametric methods (same as AK/MATH 4035 3.0).

Cross-listed to: AK/ADMS 4370 3.0.

Prerequisites: AK/ADMS 3320 3.0.

Elective course for: BAS-ITEC and BAS-HURE.

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/MATH 4040 6.0 Methods of Applied Mathematics. Laplace transform, vector analysis, Green's theorem, Stokes' theorem, calculus of variations, partial differential equations, Laplace's equation, conformal mappings.

Prerequisite: AK/AS/SC/MATH 1310 3.0 or equivalent, or, for students with equivalent preparation, permission of the coordinator of Mathematics.

AK/MATH 4060 6.0 Modern Mathematics for Teachers. This course provides an overview of modern mathematics from the mid-19th century to the present with the aim of providing the student with an understanding of major subjects which will include non-Euclidean geometry, logic, topology, unsolved problems, catastrophe theory, fractals, chaos.

Prerequisite: AK/AS/SC/MATH 2310 3.0.

AK/AS/SC/MATH 4080 6.0 Topology. Topological spaces, continuity, connectedness, compactness, nets, filters, metrization theorems, complete metric spaces, function spaces, fundamental group, covering spaces.

Prerequisite: AK/AS/SC/MATH 3210 3.0.

AK/AS/SC/MATH 4090 3.0 Mathematical Modelling. Discrete, continuous and probabilistic modelling of problems from industry, finance and the life and physical sciences. The ability to model complex problems is stressed. Three lecture hours. One term. Three credits.

Prerequisites: Registration in an Honours Program in Mathematics and Statistics and the completion of all specified core courses in that program.

AK/AS/SC/MATH 4150 3.0 Topics in Geometry. One or two topics which may be chosen from the following: projective geometry, algebraic geometry, geometrical algebra, finite geometries, differential geometry, Riemannian geometry, discrete applied geometry.

Prerequisites: AK/AS/SC/MATH 2222 3.0; six credits from 3000-level MATH courses (without second digit 5); or permission of coordinator of Mathematics.

AK/AS/SC/MATH 4210 3.0 Complex Analysis. A rigorous development of the principal results of complex variable theory, including Taylor and Laurent series, the calculus of residues, the maximum modulus theorem and some special functions. Introduction to some more advanced topics.

Prerequisite: AK/AS/SC/MATH 3410 6.0.

Note: Not open to students who have taken AK/MATH 4210 6.0.

AK/AS/SC/MATH 4250 6.0 Differential Geometry. Curves and surfaces in 3-space, tangent vectors, normal vectors, curvature, introduction to topology, manifolds, tangent spaces, multilinear algebra and tensors.

Prerequisites: AK/AS/SC/MATH 2222 3.0 and AK/AS/SC/MATH 3010 3.0.

Degree credit exclusion: AS/SC/MATH 3450 3.0.

AK/MATH 4260 3.0/4260 6.0 Directed Reading. This course involves reading a standard book or recently published papers under supervision of a faculty member. May require preparation of a paper on the chosen topic. Students should contact the program coordinator by April for the following fall/winter term.

Prerequisites: 48 mathematics credits with an average grade of B, or, for students with equivalent preparation, permission of the coordinator of Mathematics.

Note 1: 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 program coordinator is also required.

Note 2: For either the bachelor or the Honours degree, no student may include more than one full reading course or equivalent in the program of study.

AK/AS/SC/MATH 4271 3.0 Dynamical Systems. Iterations of maps and differential equations; phase portraits, flows; fixed points, periodic solutions and homoclinic orbits; stability, attraction, repulsion; Poincaré maps, transition to chaos. Applications: logistic maps, interacting populations, reaction kinetics, forced Van der Pol, damped Duffing and Lorenz equations.

Prerequisites: AK/AS/SC/MATH 2221 3.0; AK/AS/SC/MATH 2270 3.0.

Degree credit exclusion: AK/AS/SC/MATH 3270 3.0.

AK/AS/SC/MATH 4290 3.0 Mathematical Logic. Predicate logic, rules of inference, elimination of quantifiers, Tarski semantics, Gödel's completeness, compactness and incompleteness theorems. Ultrapowers. Non-standard analysis.

Prerequisite: AK/MATH 2441 3.0 or AK/AS/SC/MATH 3020 6.0 or AK/AS/SC/MATH 3190 3.0 or AK/AS/SC/MATH 3210 3.0 or permission of the instructor; AK/AS/SC/MATH 1090 3.0 or AK/AS/SC/MATH 1190 3.0 is recommended.

AK/MATH 4430 3.0 Stochastic Processes. Basic stochastic processes, including Markov chains, Poisson processes and birth-death processes. Topics from queues, renewal processes, stationary processes, Brownian motion.

Prerequisite: AK/AS/SC/MATH 2030 3.0.

Degree credit exclusion: AK/MATH 4030 6.0.