

COURSE DESCRIPTIONS

MIXED PROGRAM:

Title: **AES100 *Academic English***

Program: UTP Stage I / UTP Stage II

Description: Academic English Skills (AES) is the English language component of the Mixed Program. The overall purpose of this course is to increase your English language skills and confidence so that you can participate successfully in academic study. This involves improving your skills in the areas of reading, writing, listening and speaking, including strengthening your control over English vocabulary and structure.

UTP STAGE I:

Title: **BUS108 - *Introduction to Management***

Program: UTP Stage I

Description: Theories, concepts and issues in the field of organizational behaviour with an emphasis on team processes. Core topics include employee motivation and performance; stress management; communication; work perceptions and attitudes; decision-making; team dynamics; employee involvement and conflict management.

Prerequisite: AES100 or FIC direct entry equivalent.

Title: **COM001 - *Introduction to Computing Concepts & Algorithms***

Program: UTP Stage I

Description: COM001 introduces students to fundamentals of computing and algorithmic thinking. This course is not about computer usage – it is about computing science. It emphasizes understanding and problem-solving skills related to basic concepts of information and computation. At times, a broader, historical context is provided to illustrate the development of human thought and ideas. Students will acquire a good sense of what computing science is about, its intrinsic challenges, and its possible future. The course gives foundation both to those who will study computing science, as well as to those who will work with computing science in any capacity – as users, collaborators, or managers. *This course complements COM002.*

Title: **COM002 - *Introduction to Computers and Their Applications***

Program: UTP Stage I

Description: COM002 introduces students to computers and their usage in a variety of software applications. It is a lab course, where the primary focus is on developing hands-on computer skills. In addition, theoretical background information is presented as needed. Microsoft Office 2007 and Alice, an innovative 3D programming environment will be used in the course. Topics of the course include computer components, operating systems, networking, security; word processing; spreadsheets; database systems; presentation graphics; and an introduction to object-oriented programming. *This course complements COM001.*

Title: **ECN100 - *Introduction to Economics***

Program: UTP Stage I

Description: Economics is a social science that includes the study of how consumers, households and firms – make decisions. Macroeconomics encompasses the aggregate economy and is concerned with issues such as total output, interest rates, inflation and unemployment. This course will attempt to combine economic theory with practical, everyday applications. The goal of this course is to give students a sufficient understanding of economic issues and problems so that students may understand the impact of government policy, economic phenomena, and the choices people make.

Title: **ESR100 - *English Skills / Reading***

Program: UTP Stage I

Description: Offers university bound students the opportunity to develop a full range of active reading skills and acquire a broader knowledge base and vocabulary through reading and analyzing scholarly material from a variety of disciplines. Included in the course are weekly speed reading practices and vocabulary expansion activities, strategies for textbook reading, a detailed study of text patterns, and an introduction to library skills to be applied in finding appropriate scholarly support for a given thesis. *This course complements ESW100.*

Prerequisite: AES100 or FIC direct entry equivalent.

Title: **ESW100 - *English Skills / Writing***

Program: UTP Stage I

Description: Offers university bound students the opportunity to improve academic essay writing skills through study and practical application of established patterns of logical order in English. The course covers Modern Language Association (MLA) documentation and includes a mandatory, self directed review of advanced grammar. *This course complements ESR100.*

Prerequisite: AES100 or FIC direct entry equivalent.

Title: **MTH099 - *Beginning with Algebra***

Program: UTP Stage I

Description: An introductory course providing students with a chance to build a stronger foundation in the key concepts necessary for success in precalculus courses. Content includes Exponents, Radicals, Rational Expressions, Factoring, Equations Solving, Analytic Geometry, Systems of Equations, Plane Geometry and Basic Trigonometry. *This course is designed for students who do not meet the minimum requirements for MTH101 / MTH103 or MATH100.*

Title: **MTH101 - *Introduction to Mathematics***

Program: UTP Stage I

Description: An introductory course providing students with a chance to master key concepts in precalculus mathematics (grade 12 math) and its applications, and to introduce students to calculus in a highly supportive atmosphere in order to prepare them to succeed in first year math calculus and science courses. Content includes Review of Algebra, Graphs and Inequalities, Functions, Analytical Geometry, Sequences and Series, Systems of Equations and Inequalities, Linear Functions, Quadratic Functions, Maximum and Minimum problems. *This course complements MTH103.*

Title: **MTH103 - *Foundations of Mathematics***

Program: UTP Stage I

Description: An introductory course providing students with a chance to master key concepts in precalculus mathematics (grade 12 math) and its applications, and to introduce students to calculus in a highly supportive atmosphere in order to prepare them to succeed in first year math calculus and science courses. Content includes Review of Algebra, Graphs and Inequalities, Functions, Analytical Geometry, Sequences and Series, Systems of Equations and Inequalities, Linear Functions, Quadratic Functions, Maximum and Minimum problems. *This course complements MTH101.*

Title: **PHL120 - *Elementary Formal Logic***

Program: UTP Stage I

Description: The term 'logic' comes from the Greek word *logos*, which is sometimes translated as "sentence", "discourse", "reason", and "rule". Logic is *the study of the principles of correct reasoning*. This course introduces students to elementary techniques in formal symbolic logic. Two special languages will be developed: *sentential logic (SL)* and *predicate logic (PL)*. *Sentential logic* will first be used to analyze a number of important logical notions – such as *truth, falsity, indeterminacy, equivalence, consistency, and validity*. *Predicate logic* will then build on this foundation by examining ideas that are especially important to mathematical reasoning and computer science. This course has *no* math prerequisites and does *not* presuppose any previous training in formal logic.

Prerequisite: AES100 or FIC direct entry equivalent.

UTP STAGE II:

Title: **BISC100-4 *Introduction to Biology***

Program: Biological Sciences

Faculty: Faculty of Science

Description: An introduction to the basic concepts of biology, emphasizing evolution as a unifying theme. Topics include cell structure, mitosis and meiosis, DNA structure and function, evolution and population and ecosystem ecology. *There is a \$100 Lab fee associated with this course.* Breadth-Science.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*

Arts & Social Sciences Program: *Elective*

Title: **BUS251-3 *Financial Accounting I***

Program: Business Administration

Faculty: Business Administration

Description: An introduction to financial accounting, including accounting terminology, understanding financial statements, and analysis of a business entity using financial statements. Includes also time value of money and a critical review of the conventional accounting system. Quantitative.

Prerequisite: Open to returning students only.

FIC: Business Administration Program: *Required*
Arts & Social Sciences Program: *Elective*

Title: **BUS272-3 *Behavior in Organizations***

Program: Business Administration

Faculty: Business Administration

Description: Theories, concepts and issues in the field of organizational behaviour with an emphasis on individual and team processes. Core topics include employee motivation and performance, stress management, communication, work perceptions and attitudes, decision-making, team dynamics, employee involvement and conflict management.

Prerequisite: Open to returning students only.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **CMNS110-3 *Introduction to Communication Studies***

Program: Communication

Faculty: Communication, Art & Technology

Description: An introduction to selected theories about human communication. This course is required for a major, honors or minor in communication. Breadth-Social Sciences.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **CMNS130-3 *Explorations in Mass Communication***
Program: Communication
Faculty: Communication, Art & Technology
Description: An introduction to the role of mass communication (radio, television, telecommunications and the press) in Canadian society. This course is required for a major, honors or minor in communication.
FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **CMPT120-3 *Introduction to Computing Science and Programming I***
Program: Computing Science
Faculty: Applied Sciences
Description: An elementary introduction to computing science and computer programming, suitable for students with little or no programming background. Students will learn fundamental concepts and terminology of computing science, acquire elementary skills for programming in a high-level language and be exposed to diverse fields within, and applications of computing science. Topics include pseudocode; data types and control structures; fundamental algorithms; computability and complexity; computer architecture; and history of computing science. Treatment is informal and programming is presented as a problem-solving tool. Quantitative/Breadth-Science.
Recommended: BC Math 12 or equivalent.
FIC: Computing Science Program: *Required*
Business Administration Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **CMPT125-3 *Introduction to Computing Science and Programming II***
Program: Computing Science
Faculty: Applied Sciences
Description: A rigorous introduction to computing science and computer programming, suitable for students who already have some background in computing science and programming. Intended for students who will major in computing science or a related

program. Topics include fundamental algorithms; elements of empirical and theoretical algorithmics; abstract data types and elementary data structures; basic object-oriented programming and software design; computation and computability; specification and program correctness; and history of computing science. Quantitative.

Prerequisite: CMPT120 with minimum C- grade.

FIC: Computing Science Program: *Required*
Business Administration Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **CMPT150-3 *Introduction to Computer Design***

Program: Computing Science

Faculty: Applied Sciences

Description: Digital design concepts are presented in such a way that students will learn how basic logic blocks of a simple computer are designed. Topics covered include basic Von Neumann computer architecture; an introduction to assembly language programming; combinational logic design; and sequential logic design. Quantitative.

Recommended: MACM101 and CMPT120, or MACM101 and substantial programming background strongly recommended.

FIC: Computing Science Program: *Required*
Business Administration Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **CRIM101-3 *Introduction to Criminology***

Program: Criminology

Faculty: Arts and Social Sciences

Description: Topics will include examination of different terms and concepts commonly used in criminology, such as crime, delinquency, deviance, criminal, victim, rehabilitation and treatment. Criminology as a body of knowledge and as a profession. Position and subject matter of criminology. Relationship between criminology and other academic disciplines. Specificity of criminology. Relationship between theory and practice. History and evolution of criminological thought. Elements of continuity and discontinuity between classical and modern theories of criminality. Levels of explanations in criminology. Practical applications of criminology. The foundations of a modern criminal policy. Breadth-Social Sciences.

Prerequisite: AES100 or FIC direct entry equivalent

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **CRIM135-3 *Introduction to Canadian Law and Legal Institutions: A Criminal Justice Perspective***

Program: Criminology

Faculty: Arts and Social Sciences

Description: A general introduction to the fundamental and competing principles of jurisprudence and to the basic legal institutions of Canada. Prepares students for those law and law related courses offered within the School of Criminology and will consider the history of Canadian law, the development of the Canadian constitution, the system of Canadian courts and the roles and responsibilities of members of the legal profession. In addition, the course will consider the nature of legal reasoning, the doctrine of precedent, principles of statutory interpretation and will also introduce the fields of contract, torts, administrative law, and family law. Also examines the process of law reform in Canada. Breadth-Social Sciences.

Prerequisite: AES100 or FIC direct entry equivalent ; CRIM101 recommended

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **ECON103-4 *Principles of Microeconomics***

Program: Economics

Faculty: Arts and Social Sciences

Description: The principal elements of theory concerning utility and value; price and costs; factor analysis; productivity; labor organization; competition and monopoly; and the theory of the firm. Quantitative/Breadth-Social Sciences.

FIC: Business Administration Program: *Required*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **ECON105-4 *Principles of Macroeconomics***

Program: Economics

Faculty: Arts and Social Sciences

Description: The principal elements of theory concerning money and income;

distribution; social accounts; public finance; international trade; comparative systems; and development and growth. Quantitative/Breadth-Social Sciences.

FIC: Business Administration Program: *Required*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **ECON260-3 *Environmental Economics***

Program: Economics

Faculty: Arts and Social Sciences

Description: Economic analysis of environmental problems (water and air pollution, etc.) Evaluation of market failures due to externalities and public goods. Market and non-market regulation of environmental problems. Quantitative.

Prerequisite: ECON103

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **ENGL101W-3 *Introduction to Fiction***

Program: English

Faculty: Arts and Social Sciences

Description: Examines selected works of literature in order to develop a critical awareness of literary techniques and contexts in the representation of experience. May include the comparative study of works in related literary and artistic genres, and will pay some attention to literature of the 20th century. Includes attention to writing skills. Writing/Breadth-Humanities.

Prerequisite Open to returning students only.

FIC: Business Administration Program: *Required – OR ENGL105*
Computing Science Program: *Required – OR ENGL105*
Arts & Social Sciences Program: *Elective*

Title: **ENGL105W-3 *Intro to Issues in Literature & Culture***

Program: English

Faculty: Arts and Social Sciences

Description: An introduction to the study of literature within the wider cultural field, with a focus on contemporary issues across genres and media. Writing/Breadth-Humanities.

Prerequisite Open to returning students only.

FIC: Business Administration Program: *Required – OR ENGL101*
Computing Science Program: *Required – OR ENGL101*
Arts & Social Sciences Program: *Elective*

Title: **HIST102-3 *Canada since Confederation***

Program: History

Faculty: Arts and Social Sciences

Description: A survey of Canadian history since 1867. Breadth-Humanities.

Prerequisite: AES100 or FIC direct entry equivalent

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **HIST204-3 *The Social History of Canada***

Program: History

Faculty: Arts and Social Sciences

Description: A survey of major themes in Canadian social history from the arrival of Europeans to the present day. Particular attention will be paid to the effects of gender, race and class on the experience to Canadians over time. HIST102 is strongly recommended. Breadth-Humanities.

Prerequisite: HIST102 or WL102

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **HSCI160-3 *Global Perspectives on Health***

Program: Health Sciences

Faculty: Health Sciences

Description: An introduction to the differences in health and health services among the nations of the globe. Vulnerable sub-populations worldwide and their special health needs. Mechanisms whereby events in one country can impact health in another. Future world-wide health risks, their economic and health consequences. SARS, avian 'flu', West Nile virus, 'mad cow disease', antibiotic resistant malaria or tuberculosis. Dangers to rich and poor nations from ignoring health problems in developing world. Breadth-Social Sciences.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **KIN140-3 *Contemporary Health Issues***

Program: Kinesiology

Faculty: Applied Sciences

Description: Explores health from a holistic perspective, in which health is viewed as physical, psychological, and social well-being. Considers genetics, environment, personal health behaviors (such as diet, exercise, stress management, and drug use), socioeconomic status, health care delivery systems, and aging with the intent to improve students' abilities to evaluate health information. Breadth-Science.

Prerequisite: AES100 or FIC direct entry equivalent

FIC: Computing Science Program: *Elective*
Business Administration Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **LING110-3 *The Wonder of Words***

Program: Linguistics

Faculty: Arts and Social Sciences

Description: Study of the structure of words, the change of meaning of words, the change in form of words. Examples from English, French and other languages. A general interest course open to all students. Breadth-Social Science.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **MACM101-3 *Discrete Mathematics I***

Program: Mathematics and Computing Science

Faculty: Science

Description: Introduction to counting; induction; automata theory; formal reasoning; and modular arithmetic. Quantitative/Breadth-Science.

FIC: Computing Science Program: *Required*
Business Administration Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **MATH100-3 *Precalculus***

Program: Mathematics

Faculty: Science

Description: Designed to prepare students for first year Calculus courses. Topics include language and notation of mathematics; problem solving; algebraic, exponential, logarithmic and trigonometric functions and their graphs. *MATH 100 may not be counted towards the mathematics minor, major or honors degree requirements.* Students with a passing grade in MATH157 or MATH151 may *not* take this course for credit. Quantitative.

FIC: Business Administration Program: *Elective*
Arts & Social Sciences: *Elective*

Title: **MATH151-3 *Calculus I***

Program: Mathematics

Faculty: Science

Description: Designed for students specializing in mathematics, physics, chemistry, computing science and engineering. Logarithmic and exponential functions; trigonometric functions; and inverse functions. Limits, continuity, and derivatives. Techniques of differentiation, including logarithmic and implicit differentiation. The Mean Value Theorem. Applications of Differentiation including extrema, curve sketching, related rates, Newton's method. Antiderivatives and applications. Conic sections, polar coordinates, parametric curves. Quantitative.

Prerequisite: Minimum B- grade (if MATH100 studied). Students with credit for MATH157 may not take MATH151 for further credit.

FIC: Computing Science Program: *Required*
Business Administration Program: *Optional required*
Arts & Social Sciences Program: *Elective*

Title: **MATH157-3 *Calculus for the Social Sciences I***

Program: Mathematics

Faculty: Science

Description: Designed for students specializing in business or the social sciences. Topics include limits, growth rate and the derivative; logarithmic exponential and trigonometric functions and their application to business, economics, optimization and approximation methods; functions of several variables. Quantitative.

Prerequisite: Minimum C grade (if MATH100 studied). Students with credit for

MATH151 may not take MATH157 for further credit.

FIC: Business Administration Program: *Required*
Arts & Social Sciences Program: *Elective*

Title: **MATH152-3 *Calculus II***

Program: Mathematics

Faculty: Science

Description: Riemann sum, Fundamental Theorem of Calculus, definite, indefinite and improper integrals, approximate integration, integration techniques, applications of integration. First-order separable differential equations. Sequences and series, series tests, power series, convergence and applications of power series. Complex numbers. Quantitative.

Prerequisite: MATH151 with a minimum C- grade *or* MATH157 with a minimum B grade.

FIC: Computing Science Program: *Required*
Business Administration Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **PHIL001-3 *Critical Thinking***

Program: Philosophy

Faculty: Arts and Social Sciences

Description: An introduction to the evaluation of arguments as they are encountered in everyday life. The central aim will be to sharpen skills of reasoning and argumentation by understanding how arguments work and learning to distinguish those which actually prove what they set out to show from those which do not. Quantitative.

Prerequisite: AES100 or FIC direct entry equivalent.

FIC: Business Administration Program: *Required*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **POL100-3 *Introduction to Politics and Government***

Program: Political Science

Faculty: Arts and Social Sciences

Description: A comprehensive introduction to the study of politics and government for both political science majors and students specializing in other disciplines. The course will explore the major

concepts, methods, approaches and issues in political science, as well as the primary components of government structure and the political process. Breadth-Social Sciences.

Prerequisite: AES100 or FIC direct entry equivalent.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **POL241-3 Introduction to International Politics**

Program: Political Science

Faculty: Arts and Social Sciences

Description: Theory and practice of international politics, diplomacy, hot war, cold war, alliances and the role of leaders. Breadth-Social Sciences.

Prerequisite: POL100 with a minimum D grade.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **PSYC099W-3 Brain, Mind and Society**

Program: Psychology

Faculty: Arts and Social Sciences

Description: Introduces the student to issues in Psychology by surveying the research on brain and behaviour and the implications of this work for individuals and society. Beginning with neurons, this course explores the transition to human experience. Writing/Breadth-Science.

Prerequisite: Open to returning students only.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **PSYC100-3 Introduction to Psychology I**

Program: Psychology

Faculty: Arts and Social Sciences

Description: Acquaints the student with the major issues in contemporary psychology and considers the historical antecedents. Special attention is given to questions of methodology and research design in psychology. Topics in physiological psychology,

perception, learning and motivation are considered. Breadth-Social Sciences.

Prerequisite: Open to returning students only.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **PSYC102-3 *Introduction to Psychology II***

Program: Psychology

Faculty: Arts and Social Sciences

Description: Acquaints the student with major issues in contemporary psychology and considers their historical antecedents. Topics in learning, cognition, social psychology and abnormal psychology are considered. PSYC100 is strongly recommended. Breadth-Social Sciences.

Prerequisite: Open to returning students only.

FIC: Business Administration Program: *Elective*
Computing Science Program: *Elective*
Arts & Social Sciences Program: *Elective*

Title: **STAT203-3 *Intro to Statistics for the Social Sciences***

Program: Statistics

Faculty: Science / Arts & Social Sciences

Description: Introduction to descriptive and inferential statistics aimed at students in the social sciences. Scales of measurement. Descriptive statistics. Measures of association. Hypothesis tests and confidence intervals. Intended to be particularly accessible to students who are not specializing in Statistics. Quantitative.

FIC: Arts & Social Sciences Program: *Elective*
Business Administration Program: *Elective*

Title: **WL102-3 *Literature Across Cultures***

Program: World Literature

Faculty: Arts and Social Sciences

Description: Explores moments of cross-cultural interaction, encompassing the literature of exploration, empire, post-imperial culture, and canonical or contemporary travelogues. Breadth-Humanities

FIC: Arts & Social Sciences Program: *Elective*
Business Administration Program: *Elective*

Computing Science Program: *Elective*

Title: **WL201-3 *East/ West***

Program: World Literature

Faculty: Arts and Social Sciences

Description: Explores the relationship between Eastern and Western narratives. The focus may include the mutual influence of Eastern and Western cultural traditions and modernities, the construction of the 'East' in the West and of the 'West' in the East, theories of Orientalism and Occidentalism, and forms of East/West syncretism. Breadth-Humanities

Prerequisite: WL102 and HIST102 or ENGL101 or ENGL105

FIC: Business Administration Program: *Elective*

Computing Science Program: *Elective*

Arts & Social Sciences Program: *Elective*